Trademark Information

- Microsoft, Windows and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Macintosh, Mac OS, and QuickTime are trademarks of Apple Inc.
- Adobe and Acrobat are registered trademarks of Adobe Systems Inc.
- The SD logo is a trademark of the SD Card Association.
- PictBridge is a trademark.
- D-Lighting technology is provided by Apical Limited.
- All other trade names mentioned in this manual or the other documentation provided with your Nikon product are trademarks or registered trademarks of their respective holders.
For Your Safety

To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them. The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol:

This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury.

WARNINGS

⚠️ Turn off in the event of malfunction
Should you notice smoke or an unusual smell coming from the camera or AC adapter, unplug the AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection.

⚠️ Do not disassemble
Touching the internal parts of the camera or AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or AC adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery.

⚠️ Do not use the camera or AC adapter in the presence of flammable Gas
Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

⚠️ Handle the camera strap with care
Never place the strap around the neck of an infant or child.

⚠️ Keep out of reach of children
Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.
Observe caution when handling the battery

The battery may leak or explode if improperly handled. Observe the following precautions when handling the battery for use in this product:

- Before replacing the battery, turn the product off. If you are using the AC adapter, be sure it is unplugged.
- Only use a Rechargeable Li-ion Battery EN-EL5 (supplied). Use the Battery Charger MH-61 (supplied) to charge the battery.
- When inserting the battery, do not attempt to insert it upside down or backwards.
- Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing.
- Do not expose the battery to flames or to excessive heat.
- Do not immerse in or expose to water.
- Replace the terminal cover when transporting the battery. Do not transport or store with metal objects such as necklaces or hairpins.
- The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.
- Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation.
- If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water.

Observe the following precautions when handling the battery charger

- Keep dry. Failure to observe this precaution could result in fire or electric shock.
- Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire.
- Do not handle the power cable or go near the battery charger during lightning storms. Failure to observe this precaution could result in electric shock.
- Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock.
- Do not handle the plug or battery charger with wet hands. Failure to observe this precaution could result in electric shock.
For Your Safety

⚠️ Use appropriate cables
When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations.

⚠️ Handle moving parts with care
Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts.

⚠️ CD-ROMs
The CD-ROMs supplied with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment.

⚠️ Observe caution when using the flash
Using the flash close to your subject’s eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than one meter (39 in.) from the subject.

⚠️ Do not operate the flash with the flash window touching a person or object
Failure to observe this precaution could result in burns or fire.

⚠️ Avoid Contact with Liquid Crystal
Should the LCD monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.
Notice for Customers in the U.S.A.

Federal Communications Commission (FCC) Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

CAUTIONS

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user’s authority to operate the equipment.

Interface Cables

Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Notice for customers in the State of California

WARNING

Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling.

Nikon Inc.,
1300 Walt Whitman Road, Melville,
New York 11747-3064 USA
Tel: 631-547-4200
Notice for customers in Canada

CAUTION
This Class B digital apparatus complies with Canadian ICES-003.

ATTENTION
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Symbol for Separate Collection in European Countries
This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries:

- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.
# Table of Contents

For Your Safety ................................................................................................................ ii  
WARNINGS ....................................................................................................................... ii  
Notices ........................................................................................................................... v  

Introduction ................................................................................................................... 1  
About This Manual ........................................................................................................... 1  
Information and Precautions ............................................................................................ 2  
Parts of the Camera ........................................................................................................... 4  
The Camera Body .............................................................................................................. 4  
The Monitor ...................................................................................................................... 6  
Basic Operations ............................................................................................................. 8  
The Mode Dial ................................................................................................................... 8  
The Command Dial .......................................................................................................... 9  
The Multi Selector ........................................................................................................... 10  
The **MENU** Button ................................................................................................... 11  
Help Displays .................................................................................................................. 11  
The **DISP** Button ..................................................................................................... 12  
([Monitor] Button .......................................................................................................... 13  
Attaching the Strap and Lens Cap .................................................................................. 13  

First Steps ....................................................................................................................... 14  
Charging the Battery ...................................................................................................... 14  
Inserting the Battery ....................................................................................................... 16  
Removing the Battery .................................................................................................... 17  
Turning On and Off the Camera .................................................................................... 17  
Setting Display Language, Date and Time ................................................................... 18  
Inserting Memory Cards ............................................................................................... 20  
Removing Memory Cards ............................................................................................ 21  

Table of Contents

**Basic Photography and Playback: Auto Mode** ................................................................. 22
  - Step 1 Turn the Camera On and Select **A** (Auto) Mode ........................................ 22
  - Indicators Displayed in **A** (Auto) Mode ................................................................. 23
  - Step 2 Frame a Picture ............................................................................................... 24
    - Using the Electronic Viewfinder ........................................................................... 24
    - Using the Zoom ...................................................................................................... 24
  - Step 3 Focus and Shoot ............................................................................................. 26
  - Step 4 Viewing and Deleting Pictures ..................................................................... 28
    - Viewing Pictures (Playback Mode) ..................................................................... 28
    - Deleting Pictures .................................................................................................. 28
  - Using the Flash ......................................................................................................... 30
    - Available Flash Modes ....................................................................................... 30
    - Setting the Flash Mode ....................................................................................... 31
  - Shooting with the Self-timer .................................................................................... 33
  - Choosing a Focus Mode ............................................................................................ 34
    - Setting the Focus Mode ....................................................................................... 35
    - Using Manual Focus ............................................................................................ 36
  - Exposure Compensation ........................................................................................... 37

**Shooting Suited for the Scene** ...................................................................................... 38
  - Shooting in the Scene Mode .................................................................................... 38
    - Setting the Scene Mode ....................................................................................... 38
    - Features ................................................................................................................. 39

**Sport Continuous Mode** .............................................................................................. 46
  - Shooting in Sport Continuous Mode ....................................................................... 46
  - Sport Continuous Menu ........................................................................................... 47

**PSAM** P, S, A and M modes .......................................................................................... 48
  - Shooting in P, S, A, and M Modes ........................................................................... 48
  - P (Programmed Auto) Mode ................................................................................... 49
  - S (Shutter-Priority Auto) Mode ................................................................................ 50
  - A (Aperture-Priority Auto) Mode ............................................................................. 51
  - M (Manual) Mode ..................................................................................................... 52
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>More on Playback</td>
<td>54</td>
</tr>
<tr>
<td>Viewing Multiple Pictures: Thumbnail Playback</td>
<td>54</td>
</tr>
<tr>
<td>Taking a Closer Look: Playback Zoom</td>
<td>55</td>
</tr>
<tr>
<td>Editing Pictures</td>
<td>56</td>
</tr>
<tr>
<td>Enhancing Brightness and Contrast: D-Lighting</td>
<td>57</td>
</tr>
<tr>
<td>Creating a Cropped Copy: Crop</td>
<td>58</td>
</tr>
<tr>
<td>Resizing Pictures: Small Picture</td>
<td>59</td>
</tr>
<tr>
<td>Adding Black Frame on Pictures: Black Border</td>
<td>60</td>
</tr>
<tr>
<td>Voice Memos: Recording and Playback</td>
<td>61</td>
</tr>
<tr>
<td>Recording Voice Memos</td>
<td>61</td>
</tr>
<tr>
<td>Playing Voice Memos</td>
<td>61</td>
</tr>
<tr>
<td>Deleting Voice Memos</td>
<td>61</td>
</tr>
<tr>
<td>Movies</td>
<td>62</td>
</tr>
<tr>
<td>Recording Movies</td>
<td>62</td>
</tr>
<tr>
<td>The Movie Menu</td>
<td>63</td>
</tr>
<tr>
<td>Selecting Movie Options</td>
<td>63</td>
</tr>
<tr>
<td>Autofocus mode</td>
<td>65</td>
</tr>
<tr>
<td>Electronic VR</td>
<td>65</td>
</tr>
<tr>
<td>Time-Lapse Movies</td>
<td>65</td>
</tr>
<tr>
<td>Movie Playback</td>
<td>67</td>
</tr>
<tr>
<td>Deleting Movie Files</td>
<td>67</td>
</tr>
<tr>
<td>Voice Recordings</td>
<td>68</td>
</tr>
<tr>
<td>Making Voice Recordings</td>
<td>68</td>
</tr>
<tr>
<td>Playing Voice Recordings</td>
<td>70</td>
</tr>
<tr>
<td>Deleting Sound Files</td>
<td>71</td>
</tr>
<tr>
<td>Copying Voice Recordings</td>
<td>72</td>
</tr>
<tr>
<td>Connecting to Televisions, Computers and Printers</td>
<td>73</td>
</tr>
<tr>
<td>Connecting to a TV</td>
<td>73</td>
</tr>
<tr>
<td>Connecting to a Computer</td>
<td>74</td>
</tr>
<tr>
<td>Before Connecting the Camera</td>
<td>74</td>
</tr>
<tr>
<td>Transferring Pictures from the Camera to a Computer</td>
<td>75</td>
</tr>
<tr>
<td>Connecting to a Printer</td>
<td>78</td>
</tr>
<tr>
<td>Connecting the Camera and Printer</td>
<td>79</td>
</tr>
<tr>
<td>Printing Pictures One at a Time</td>
<td>80</td>
</tr>
<tr>
<td>Printing Multiple Pictures</td>
<td>81</td>
</tr>
<tr>
<td>Creating a DPOF Print Order: Print Set</td>
<td>84</td>
</tr>
</tbody>
</table>
Table of Contents

**Shooting, Playback and Setup Menus** ................................................................. 86

**Shooting Options: The Shooting Menu** ............................................................. 86
  - Displaying the Shooting Menu ..................................................................... 87
  - Image Quality ............................................................................................... 88
  - Image Size ..................................................................................................... 89
  - Optimize Image ............................................................................................ 91
  - White Balance ............................................................................................. 94
  - ISO Sensitivity ............................................................................................. 96
  - Metering ....................................................................................................... 97
  - Continuous ................................................................................................. 98
  - Auto Bracketing ......................................................................................... 101
  - AF Area Mode ............................................................................................ 102
  - Autofocus mode ......................................................................................... 104
  - Flash Exp. Comp ....................................................................................... 105
  - Noise Reduction ......................................................................................... 105
  - Distortion Control ...................................................................................... 106

**Restrictions on Camera Settings** ................................................................. 106

**Playback Options: The Playback Menu** ......................................................... 108
  - Displaying the Playback Menu .................................................................. 108
  - Slide Show ................................................................................................. 110
  - Delete ......................................................................................................... 111
  - Protect ....................................................................................................... 111
  - Rotate image .............................................................................................. 112
  - Hide Image ............................................................................................... 112
  - Copy .......................................................................................................... 113
<table>
<thead>
<tr>
<th>Basic Camera Setup: The Setup Menu</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displaying the Setup Menu</td>
<td>114</td>
</tr>
<tr>
<td>Menu Options</td>
<td>Page</td>
</tr>
<tr>
<td>Welcome Screen</td>
<td>116</td>
</tr>
<tr>
<td>Date</td>
<td>117</td>
</tr>
<tr>
<td>Brightness</td>
<td>120</td>
</tr>
<tr>
<td>Date Imprint</td>
<td>120</td>
</tr>
<tr>
<td>Vibration Reduction</td>
<td>122</td>
</tr>
<tr>
<td>AF Assist</td>
<td>123</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>123</td>
</tr>
<tr>
<td>Sound Settings</td>
<td>124</td>
</tr>
<tr>
<td>Auto Off</td>
<td>124</td>
</tr>
<tr>
<td>Format Memory/Format Card</td>
<td>125</td>
</tr>
<tr>
<td>Language</td>
<td>126</td>
</tr>
<tr>
<td>Video Mode</td>
<td>126</td>
</tr>
<tr>
<td>Reset All</td>
<td>127</td>
</tr>
<tr>
<td>Firmware Version</td>
<td>129</td>
</tr>
<tr>
<td>Chapter</td>
<td>Pages</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Technical Notes</td>
<td>130</td>
</tr>
<tr>
<td>Optional Accessories</td>
<td>130</td>
</tr>
<tr>
<td>Approved Memory Cards</td>
<td>131</td>
</tr>
<tr>
<td>Image/Sound File and Folder Names</td>
<td>132</td>
</tr>
<tr>
<td>Caring for the Camera</td>
<td>133</td>
</tr>
<tr>
<td>Cleaning</td>
<td>135</td>
</tr>
<tr>
<td>Storage</td>
<td>135</td>
</tr>
<tr>
<td>Error Messages</td>
<td>136</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>140</td>
</tr>
<tr>
<td>Specifications</td>
<td>146</td>
</tr>
<tr>
<td>Supported Standards</td>
<td>149</td>
</tr>
<tr>
<td>Index</td>
<td>150</td>
</tr>
</tbody>
</table>
Introduction

About This Manual

Thank you for your purchase of a Nikon COOLPIX P80 digital camera. This manual was written to help you enjoy shooting with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it.

Symbols and Conventions

To make it easier to find the information you need, the following symbols and conventions are used:

- This icon marks cautions, information that should be read before use, to prevent damage to the camera.
- This icon marks tips, additional information that may be helpful when using the camera.
- This icon marks notes, information that should be read before using the camera.
- This icon indicates that more information is available elsewhere in this manual or in the Quick Start Guide.

Notations

- A Secure Digital (SD) memory card is referred to as a “memory card.”
- The setting at the time of purchase is referred to as the “default setting.”
- Unless otherwise specified, “monitor” is used to refer to both the LCD monitor and electronic viewfinder.
- The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed in the computer monitor are indicated in bold.

Screen Samples

In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown.

Illustrations and Screen Display

Illustrations and text displays shown in this manual may differ from actual display.

Memory Cards

Pictures taken with this camera can be stored in the camera’s internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback and format operations will apply only to the pictures on the memory card. The memory card must be removed before the internal memory can be formatted or used to store, delete or view pictures.
Information and Precautions

Life-Long Learning
As part of Nikon’s “Life-Long Learning” commitment to ongoing product support and education, continually updated information is available online at the following sites:
- For users in the U.S.A.: http://www.nikonusa.com/
- For users in Europe and Africa: http://www.europe-nikon.com/support/
- For users in Asia, Oceania, and the Middle East: http://www.nikon-asia.com/
Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the URL below for contact information:
http://nikonimaging.com/

Use Only Nikon Brand Electronic Accessories
Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, AC adapters, and flash accessories) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry.

The use of non-Nikon electronic accessories could damage the camera and may void your Nikon warranty.

For more information about Nikon brand accessories, contact a local authorized Nikon dealer.

Holographic seal: Identifies this device as an authentic Nikon product.

Rechargeable Li-ion Battery EN-EL5

Before Taking Important Pictures
Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction.

About the Manuals
- No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon’s prior written permission.
- Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice.
- Nikon will not be held liable for any damages resulting from the use of this product.
- While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).
Notice Concerning Prohibition of Copying or Reproduction

Note that simply being in possession of material that was digitally copied or reproduced by means of a scanner, digital camera or other device may be punishable by law.

- **Items prohibited by law from being copied or reproduced**
  Do not copy or reproduce paper money, coins, securities, government bonds or local government bonds, even if such copies or reproductions are stamped “Sample.” The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited. Unless the prior permission of the government was obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited. The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited.

- **Cautions on certain copies and reproductions**
  The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards and tickets, such as passes and meal coupons.

- **Comply with copyright notices**
  The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies and photographs is governed by national and international copyright laws. Do not use this product for the purpose of making illegal copies or to infringe copyright laws.

Disposing of Data Storage Devices

Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user’s responsibility.

Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for the welcome screen (116). Care should be taken to avoid injury or damage to property when physically destroying data storage devices.
**Parts of the Camera**

**The Camera Body**

1. Power switch/Power-on lamp ............. 17
2. Mode dial .............................................................. 8
3. Built-in flash ..................................................... 30
4. (Flash pop-up) button ......................... 31
5. Microphone ..................................... 61, 62, 68
6. Lens .......................................................... 135, 146
7. Self-timer lamp ................................... 33, 134
   AF-assist illuminator ........... 27, 123, 134
8. Zoom control.................................................. 24
   W (wide) .............................................. 24
   T (tele) .................................................. 24
   (thumbnail playback) .......... 54
   (playback zoom) ................. 55
   (help) ............................................... 11
9. Shutter-release button ....................... 26
10. Power connector cover ...................... 130
11. Cable connector .............................. 73, 75, 79
12. Connector cover .............................. 73, 75, 79
13. Eyelet for camera strap ...................... 13
Parts of the Camera

1. Eyelet for camera strap ...................... 13
2. Monitor button .................................. 13
3. Diopter adjustment control .............. 13
4. Electronic viewfinder ...................... 24
5. DISP (display) button ....................... 12
6. Command dial ..................................... 9
7. Speaker .............................................. 61, 67, 70
8. LCD monitor ....................................... 6, 12, 23
9. (playback) button .............................. 28
10. MENU (menu) button ......................... 11, 63, 87, 108
11. Multi selector .................................... 10
12. (delete) button ................................. 28, 29, 61, 67, 71
13. (menu) button .................................. 11, 63, 87, 108
14. Tripod socket .....................................
15. Battery-chamber/memory card slot cover .................................................. 16, 20
16. Memory card slot .............................. 16, 20
17. Battery latch ..................................... 16, 17
18. Battery chamber ............................... 16
The Monitor

The following indicators may appear in the monitor during shooting and playback (actual display varies with current camera settings).

See pages 12 and 13 for details on changing the monitor display.

| 1 | Shooting mode* | 2, 38, 48, 62 |
| 2 | Focus mode | 34 |
| 3 | Zoom indicator | 24 |
| 4 | Focus indicator | 26 |
| 5 | Exposure/Focus lock | 45 |
| 6 | Flash indicator | 30 |
| 7 | Flash mode | 30 |
| 8 | Battery level indicator | 22 |
| 9 | Vibration reduction icon (still pictures) | 23, 122 |
| 10 | Electronic VR icon (movies) | 65 |
| 11 | Distortion control | 106 |
| 12 | Focus area | 26, 102 |
| 13 | Focus area (when a face is recognized) | 102 |
| 14 | “Date not set” indicator | 136 |
| 15 | Time zone indicator | 117 |
| 16 | Date imprint/date counter | 120 |
| 17 | Image size | 89 |

| 18 | a) Number of exposures remaining | 22 |
| 19 | b) Movie length | 62 |
| 20 | Internal memory indicator | 23 |
| 21 | Image quality | 88 |
| 22 | Aperture | 48 |
| 23 | Shutter speed | 48 |
| 24 | Exposure display | 52 |
| 25 | ISO sensitivity | 32, 96 |
| 26 | Exposure compensation | 37 |
| 27 | Flash exposure compensation | 105 |
| 28 | Self-timer indicator | 33 |
| 29 | B&W + color | 93 |
| 30 | Image optimization | 91 |
| 31 | White balance | 94 |
| 32 | Noise reduction | 105 |
| 33 | Bracketing | 101 |
| 34 | Continuous shooting mode | 46, 98 |

* Differs according to the current shooting mode. Refer to the sections on each mode for details.
Parts of the Camera

Playback

1. Date of recording..........................18
2. Time of recording.............................18
3. Volume indicator...............................61, 67
4. Battery level indicator.........................22
5. Image quality*................................88
6. Image size*......................................89
7. Movie option*................................63
   a) Current frame number/total number of frames.........28
   b) Movie length..................................67
8. Internal memory indicator....................28
9. Voice memo recording guide ..................61
10. Voice memo playback guide.....................61
11. Movie playback indicator.....................67
12. Print-order icon...............................84
13. Small picture indicator.......................59
14. D-Lighting icon...............................57
15. Protect icon....................................111
16. File number and type.........................132

* Differs according to the selected option.
Basic Operations

The Mode Dial
Align the mode icon with the mark next to the mode dial.

- **Auto**: Choose this simple “point-and-shoot” mode, suited to first-time users of digital cameras, in which the camera automatically adjusts settings.

- **Sport Continuous Mode**: Choose this mode for high-speed continuous shooting.

- **Scene**: Choose this mode for automatic adjustment of settings to suit the selected subject type, or use the voice recording option to record sound only.

- **P,S,A,M**: Choose these modes for greater control over shutter speed and aperture.

- **SETUP**: Display the setup menu, where you can perform such tasks as setting the camera clock and adjusting LCD monitor brightness.

- **Movie**: Choose this mode to shoot movies.
# The Command Dial

You can rotate the command dial to select items from a menu screen or to select and configure any of the following functions.

## With Shooting

<table>
<thead>
<tr>
<th>Mode</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (Programmed auto)</td>
<td>Rotate the command dial to choose flexible program.</td>
<td>49</td>
</tr>
<tr>
<td>S (Shutter-priority auto)</td>
<td>Rotate the command dial to adjust shutter speed.</td>
<td>50</td>
</tr>
<tr>
<td>A (Aperture-priority auto)</td>
<td>Rotate the command dial to adjust aperture.</td>
<td>51</td>
</tr>
<tr>
<td>M (Manual)</td>
<td>Rotate the command dial to adjust shutter speed or aperture. Press the multi selector ▶ to select a different option.</td>
<td>52</td>
</tr>
</tbody>
</table>

## With Playback

<table>
<thead>
<tr>
<th>Mode</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thumbnail playback</td>
<td>Rotate the command dial to choose a picture.</td>
<td>54</td>
</tr>
<tr>
<td>Playback zoom</td>
<td>Rotate the command dial to zoom in on the current picture.</td>
<td>55</td>
</tr>
<tr>
<td>Movie/Audio playback</td>
<td>Rotate the command dial to fast-forward or rewind.</td>
<td>67, 71</td>
</tr>
</tbody>
</table>
The Multi Selector

This section describes standard uses of the multi selector to select modes, select menu options and to apply selection.

With Shooting

Display $ (flash mode) (P 30) menu or move cursor up
Display $ (self-timer) (P 33) menu
Display $ (focus mode) (P 34) menu or move cursor down
Apply selection

With Playback

Choose the previous picture
Choose the next picture

With Menu Screens

Move cursor up
Display sub-menu or move apply selection right
Return to the previous menu
Move cursor down
Apply selection

Notes on the Multi Selector

In the manual, the button indicating up, down, left and right of the multi selector is shown as $, $, $, and $.

Flash mode

Display $ (focus mode) (P 34) menu or move cursor down
Apply selection

With Menu Screens

Move cursor up
Display sub-menu or move apply selection right
Return to the previous menu
Move cursor down
Apply selection

Notes on the Multi Selector

In the manual, the button indicating up, down, left and right of the multi selector is shown as $, $, $, and $.
The **MENU** Button

Press **MENU** to display the menu for the selected mode. Use the multi selector to navigate the menus (10). Menu options can also be selected by rotating the command dial.

Press **MENU** again to exit the menu.

**Help Displays**

Rotate the zoom control to **T (可疑)** when **?** is displayed at the lower right of the menu screen to view a description of the currently selected menu option. To return to the original menu, rotate the zoom control to **T (可疑)** again.
The DISP Button

To hide or show monitor indicators during shooting and playback, press DISP.

With Shooting

- Current settings
- Framing guides (P, S, A, and M modes only)
- View through lens only

With Playback

- Photo information displayed
- Shooting data displayed (see below)
- Photo information hidden

Shooting data: Shows the folder name, file name, exposure mode, shutter speed, aperture, exposure compensation, ISO sensitivity, current frame number/total number of frames, and histogram for the current picture. Shooting data are not displayed if the current picture is a movie.

- Exposure mode: P, S, A, or M (48). P is also displayed on pictures shot in (auto), (sports shooting), and (scene) modes.
- Histogram: A graph showing tone distribution. The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right; the vertical axis shows number of pixels of each brightness in image.
- Highlights: The brightest portions of the image (highlights) blink. Details may be lost (“washed out”) in areas of highlights that are overexposed. Use highlights as a guide when setting exposure.
**[ ] (Monitor) Button**

Each press of [ ] (monitor) switches to the LCD monitor or electronic viewfinder. Switch to the one that suits the shooting conditions. For example, use the electronic viewfinder in bright locations when it is difficult to see the LCD monitor.

![Diagram of LCD monitor and electronic viewfinder]

**Diopter adjustment of electronic viewfinder**

When the diopter for the electronic viewfinder is out of focus and the display is difficult to see, adjust the diopter with the diopter adjustment control. While looking into the viewfinder, rotate the diopter adjustment control until the display is clearly visible. Take care not to scratch your eye with your fingertips or nails when rotating the diopter adjustment control.

![Diagram of diopter adjustment control]

**Attaching the Strap and Lens Cap**

Attach the lens cap to the strap, and then attach the strap to the camera (at two places).

![Diagram of attaching strap and lens cap]

**Lens Cap**

- Remove the lens cap before you shoot a picture.
- At times when you will not be shooting pictures such as when the power is off or while you are carrying the camera, attach the lens cap to the camera to protect the lens.
Charging the Battery

Charge the supplied Rechargeable Li-ion Battery EN-EL5 with the supplied Battery Charger MH-61 before first use or when the battery is running low.

1. Plug the charger in.
   Connect the power cable to the charger ① and then plug it into an electrical outlet ②. The CHARGE lamp will light ③.

2. Charge the battery.
   Remove the battery terminal cover and insert the battery as shown, matching the projections on the battery to the indentations in the charger.

   The CHARGE lamp will blink ① as the battery recharges. Charging is complete when the CHARGE lamp stops blinking ②.

   A fully-exhausted battery will charge in about two hours.
When the charging is complete, remove the battery and unplug the power cable from the electrical outlet.

**The Battery Charger**
- The supplied Battery Charger MH-61 is for use only with the Rechargeable Li-ion Battery EN-EL5.
- Be sure to read and follow the warnings and cautions on page iii of this manual, before using the battery charger.

**Notes on the Battery**
- Only the Rechargeable Li-ion Battery EN-EL5 can be used. *Do not, under any circumstances, attempt to use another type of battery.*
- Be sure to read and follow the warnings for the battery on page iii and the section “Caring for the Camera” (133), before using the battery.

**AC Adapter**
The AC Adapter EH-62A (available separately from Nikon) can be used to power the COOLPIX P80 from an electrical outlet. Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.
Insert a Rechargeable Li-ion Battery EN-EL5 (supplied) into the camera. Charge the battery before first use or when the battery is running low (§ 14).

1 Open the battery-chamber/memory card slot cover.

2 Insert the battery.
   Confirm that the positive (+) and negative (−) terminals are oriented correctly, as described on the label at the entrance of the battery chamber, and insert the battery.
   Use the bottom of the battery to push the orange battery latch down ① as the battery is inserted ②. The latch raises back into place when the battery is fully inserted.

   ✔ Inserting the Battery
   Inserting the battery upside down or backwards could damage the camera. Be sure to check the battery is in the correct orientation.

3 Close the battery-chamber/memory card slot cover.
Inserting the Battery

Removing the Battery

Turn the camera off and confirm that the power-on lamp and monitor are off before removing the battery. To eject the battery, open the battery-chamber/memory card slot cover and slide the battery latch in the direction shown ①. The battery can then be removed by hand ②.

- Note that the battery may become hot during use; observe due caution when removing the battery.

Turning On and Off the Camera

Remove the lens cap and press the power switch to turn on the camera. The power-on lamp (green) will light and the LCD monitor (or electronic viewfinder) will turn on. The power-on lamp will turn off when the LCD monitor turns on.

To turn off the camera, press the power switch again. If the camera is turned off, hold down ③ to turn the camera on in playback mode ④ 28).

Auto Power-Off in Shooting Mode (Standby Mode)

The LCD monitor will dim to reduce the drain on the battery if no operations are performed for about five seconds. The LCD monitor will brighten when camera controls are used. At default settings, the LCD monitor, or electronic viewfinder, will turn off altogether if no operations are performed for about a minute during shooting and playback. The camera will turn off automatically if no operations are performed for another three minutes ⑤ 124).
Setting Display Language, Date and Time

A language-selection dialog is displayed the first time the camera is turned on.

1 **Press the power switch to turn on the camera.**
   The power-on lamp (green) will light and the LCD monitor (or electronic viewfinder) will turn on. The power-on lamp will turn off when the LCD monitor turns on. Remove the lens cap.

2 **Use the multi selector to choose the desired language and press OK.**
   For information on using the multi selector, see “The Multi Selector” (10).

3 **Choose Yes and press OK.**
   If No is selected, the date and time will not be set.

4 **Press OK.**

---

**Daylight Saving Time**

If daylight saving time is in effect, turn on **Daylight saving** in the time zone menu and set the date.

1 Before pressing OK in step 4, press the multi selector ▼ to choose Daylight saving.
2 Press OK to enable daylight saving time (✓). Pressing OK toggles the daylight saving time option on and off.
3 Press the multi selector ▲, and then press OK to proceed to step 5.
5  Select your home time zone (119) and press OK.

6  Edit the date.
   - Press the multi selector ▲ or ▼, to edit the highlighted item.
   - Press the multi selector ➤ to highlight the day (D), month (M), year (Y), time, minute, and date display order. Press the multi selector ◀ to highlight items in reverse order (order may differ in some regions).

7  Choose the order in which the day, month and year are displayed and press OK or the multi selector ➤.

   The settings are applied and monitor display exits to shooting mode.

   Changing the date and time

To change the current date and time, go into Date (117) in the setup menu (114), choose Date and follow the instructions above, starting from step 6.
To change the time zone and daylight saving settings, go into Date in the setup menu, choose Time zone, and change the settings (114, 117).
Inserting Memory Cards

Pictures are stored in the camera’s internal memory (approx. 50 MB) or on removable Secure Digital (SD) memory cards (available separately) (131).

If a memory card is inserted in the camera, pictures are automatically stored on the memory card and pictures recorded to the memory card can be played back, deleted or transferred. Remove the memory card to store pictures in the internal memory, or play back, delete or transfer pictures from the internal memory.

1. Turn the camera off and open the battery-chamber/memory card slot cover.
   
   If the power-on lamp or monitor is lit, press the power switch to turn off the camera.
   
   Make sure that the camera is off (power-on lamp is off) before inserting or removing the memory card.

2. Insert the memory card.
   
   Slide the memory card in correctly until it clicks into place.
   
   Close the battery-chamber/memory card slot cover.

✔ Inserting Memory Cards

Inserting the memory card upside down or backwards could damage the camera or the memory card. Make sure that the memory card is correctly oriented.
Inserting Memory Cards

Removing Memory Cards
Before removing memory cards, **turn the camera off** and confirm that the power-on lamp and monitor are off. Open the battery-chamber/memory card slot cover and press the card in ① to partially eject the card ②. The card can then be removed by hand.

![Card is not formatted. Format card?](image)

Formatting Memory Cards
If the message at right is displayed, the memory card must be formatted before use (125). Note that **formatting permanently deletes all pictures** and other data on the memory card. Be sure to make copies of any pictures you wish to keep before formatting the memory card.

Use the multi selector to choose Yes and press \( \text{ } \). The confirmation dialog will be displayed. To start formatting, choose Format and press \( \text{ } \).

- **Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete.**
- The first time you insert the memory cards used in other devices into the COOLPIX P80, be sure to format them (125) with this camera.

![Write protect switch](image)

The Write Protect Switch
SD memory cards are equipped with a write protect switch. Pictures cannot be recorded or deleted and the memory card cannot be formatted when this switch is in the “lock” position. Unlock by sliding the switch to the “write” position.

Memory Cards
- Use only Secure Digital memory cards.
- Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card:
  - Eject the memory card
  - Remove the battery
  - Turn off the camera
  - Disconnect the AC adapter
- Do not disassemble or modify.
- Do not drop, bend, or expose to water or strong physical shocks.
- Do not touch the metal terminals with your fingers or metal objects.
- Do not affix labels or stickers to the memory card.
- Do not leave in direct sunlight, closed vehicles or areas exposed to high temperatures.
- Do not expose to humidity, dust, or to corrosive gases.
Basic Photography and Playback: Auto Mode

Step 1 Turn the Camera On and Select 📷 (Auto) Mode

This section describes how to shoot in 📷 (auto) mode, an automatic, “point-and-shoot” mode recommended for first-time users of digital cameras.

1. Rotate the mode dial to 📷.

2. Remove the lens cap and press the power switch to turn on the camera.

The power-on lamp (green) will light, the LCD monitor (or electronic viewfinder) will turn on, and the lens will extend. The power-on lamp will turn off when the LCD monitor turns on.

3. Check the battery level and number of exposures remaining.

   **Battery Level**

<table>
<thead>
<tr>
<th>Monitor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO INDICATOR</td>
<td>Battery fully charged.</td>
</tr>
<tr>
<td></td>
<td>Battery low; prepare to charge or replace the battery.</td>
</tr>
<tr>
<td>📸</td>
<td>Cannot shoot pictures. Recharge or replace with a fully-charged battery.</td>
</tr>
</tbody>
</table>

   **Number of Exposures Remaining**

   The number of pictures that can be stored depends on the capacity of the memory or memory card, image quality, and image size.
Step 1 Turn the Camera On and Select (Auto) Mode

Indicators Displayed in (Auto) Mode

- **Shooting mode**
  Displayed in (auto) mode.

- **Vibration reduction icon**
  Vibration reduction can be applied to reduce the effects of camera shake.

- **Shutter speed**
  Displayed in (auto) mode.

- **Aperture**
  Displayed in (auto) mode.

- **Image quality/Image size**
  Current image quality and size settings are displayed. The default settings are W (Normal) for image quality and J (3648 x 2736) for image size.

- **Internal memory indicator**
  Pictures will be recorded to internal memory. When memory card is inserted, C is not displayed and pictures will be recorded to memory card.

Note on the Flash

When the built-in flash is lowered, the flash setting is fixed at off and ø appears at the top of the monitor. In situations where flash is needed, such as in dark locations or when the subject is backlit, be sure to raise the built-in flash (ø 30).

Available Functions in (Auto) Mode

In (auto) mode, focus mode (ø 34) and exposure compensation (ø 37) can be applied and the camera can shoot using the flash mode (ø 30) and self-timer (ø 33). Pressing MENU displays the shooting menu options for specifying the image quality (ø 88) and image size (ø 89).

Vibration Reduction

**Vibration reduction** (ø 122), when On (default setting) is selected, can be applied to effectively reduce blur, caused by slight hand movement known as camera shake, that commonly occurs when shooting with zoom applied or at slow shutter speeds.

Set **Vibration reduction** to Off when using a tripod to stabilize the camera during shooting.

To reduce the effects of camera shake when recording movies, enable **Electronic VR** (ø 65) from the movie menu (ø 63).
Step 2 Frame a Picture

1 Ready the camera.

Hold the camera steadily in both hands, keeping your fingers and other objects away from the lens, AF-assist illuminator, microphone, speaker and flash pop-up button.

2 Frame the picture.

Position the main subject near the center of the monitor.

Using the Electronic Viewfinder

Use the electronic viewfinder to frame pictures when bright light makes it difficult to see the display in the LCD monitor. Press [ ] to switch to the electronic viewfinder (13).

When the diopter for the electronic viewfinder is out of focus, rotate the diopter adjustment control to the position in which the subject is most visible (13).

Using the Zoom

Use the zoom control to activate optical zoom. Rotate the zoom control to W ( [ ] ) to zoom out, increasing the area visible in the frame, or T ( [ ] ) to zoom in so that the subject fills a larger area of the frame.

Rotating the zoom control all the way in either direction will adjust the zoom quickly, while rotating the control partially will adjust the zoom slowly.

A zoom indicator is displayed at the top of the monitor when the zoom control is rotated.
Digital Zoom and Image Quality

When the camera is zoomed in to the maximum optical zoom magnification, rotating and holding the zoom control at T (Q) triggers digital zoom. With digital zoom, you can magnify a subject up to 4x the maximum magnification of optical zoom (18x) for a total of up to 72x magnification.

Focus will be on the center of the screen (without active focus area display) when digital zoom is in effect.

Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of picture quality. The icon appears under the zoom indicator at the top of the monitor to mark the maximum zoom ratio possible before deterioration from digital zoom occurs. When the zoom ratio exceeds towards the telephoto side, the zoom indicator will turn yellow and picture quality will begin to deteriorate.

Maximum zoom ratio without interpolation

The position of under the zoom indicator moves closer to the telephoto side as the image size gets smaller. Deterioration from digital zoom will not occur until the zoom ratio reaches the following levels for each mode.

When the zoom ratio reaches the following levels, zoom operations pause temporarily. If you continue to hold the zoom control at T (Q) and increase the zoom after this point, the images will start to get grainier.

<table>
<thead>
<tr>
<th>Image size</th>
<th>Zoom ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18x (up to the maximum optical zoom ratio)</td>
</tr>
<tr>
<td></td>
<td>25.2x (digital zoom up to 1.4x)</td>
</tr>
<tr>
<td></td>
<td>28.8x (digital zoom up to 1.6x)</td>
</tr>
</tbody>
</table>

Digital zoom can be limited to the range at which interpolation is not in effect, or it can be turned off (123).
Step 3 Focus and Shoot

1 Press the shutter-release button halfway.

The camera automatically focuses on the subject in the center focus area.

When the subject is in focus, the focus area will glow green.

When digital zoom is in effect, and the subject is in focus, the focus indicator (A 6) will glow green. The focus area is not displayed.

Focus and exposure remain locked while the shutter-release button is pressed halfway. When the camera is unable to focus, the focus area, or focus indicator, blinks red. Change the composition and try again.

2 Press the shutter-release button the rest of the way down.

The picture will be recorded to the memory card or internal memory.

Shutter-release Button

The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. Focus and exposure lock while the shutter-release button is held in this position. To release the shutter and shoot, press the shutter-release button the rest of the way down.

Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred pictures.
During Recording

While images are being recorded, the (wait) icon will be displayed and the indicator for the number of exposures or movie length remaining will blink. Do not turn the camera off, open the battery-chamber/memory card slot cover, or remove or disconnect the power source while these icons are displayed. Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card.

Autofocus

Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the active focus area or the focus indicator glow green:

- Subject is very dark
- Objects of sharply differing brightness are included in the scene (e.g. the sun is behind the subject and is in deep shadow)
- No contrast between the subject and surroundings (e.g. when the subject is standing in front of a white wall, wearing a white shirt)
- Several objects are at different distances from the camera (e.g. the subject is inside a cage)
- Subject is moving rapidly

In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject and use focus lock. When using focus lock, be sure that the distance between the camera and the subject with which focus was locked is the same as that for the actual subject.

Focus Lock

To focus on an off-center subject when Center is selected for AF area mode, use focus lock as described blow.

- Be sure that the distance between the camera and the subject does not change while focus is locked.
- When the shutter-release button is pressed halfway, exposure is locked.

AF-assist Illuminator

If the subject is poorly lit, the AF-assist illuminator may light by pressing the shutter-release button halfway. The illuminator has a range of about 2.9 m (9.5 ft.) at the maximum wide-angle position and about 1.9 m (6.2 ft.) at the maximum telephoto position. The AF-assist illuminator can be set to Off manually (123), although in this case the camera may not focus when lighting is poor.
Step 4 Viewing and Deleting Pictures

Viewing Pictures (Playback Mode)

Press \( \text{\textup{\textbullet\textup{}}}. \)

The last picture shot will be displayed in full-frame playback mode.

Press the multi selector \( \text{\textup{\textbullet\textup{}}} \), \( \text{\textup{\textbullet\textup{}}} \), \( \text{\textup{\textbullet\textup{}}} \), or \( \text{\textup{\textbullet\textup{}}} \) to view additional pictures. Hold down the multi selector \( \text{\textup{\textbullet\textup{}}} \), \( \text{\textup{\textbullet\textup{}}} \), \( \text{\textup{\textbullet\textup{}}} \), or \( \text{\textup{\textbullet\textup{}}} \) to fast forward pictures.

Pictures may be displayed briefly at low resolution while being read from the memory card or internal memory.

Press \( \text{\textup{\textbullet\textup{}}} \) or the shutter-release button to switch to shooting mode.

When \( \text{\textup{\textbullet\textup{}}} \) is displayed, pictures stored in the internal memory will be displayed. When memory card is inserted, \( \text{\textup{\textbullet\textup{}}} \) is not displayed and pictures stored on the memory card will be displayed.

Deleting Pictures

1. Press \( \text{\textup{\textbullet\textup{}}} \) to delete the picture currently displayed in the monitor.

2. Use the multi selector to select \textbf{Yes} and press \( \text{\textup{\textbullet\textup{}}} \).

To exit without deleting the picture, choose \textbf{No} and press \( \text{\textup{\textbullet\textup{}}} \).
Playback Mode

The following options are available in full-frame playback mode.

<table>
<thead>
<tr>
<th>Option</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Playback zoom</td>
<td>T(urous)</td>
<td>Press T (IOUS) to enlarge view of picture currently displayed in monitor, up to about 10x. Press K to return to full-frame playback mode.</td>
</tr>
<tr>
<td>View thumbnails</td>
<td>W (Thumbnail)</td>
<td>Press W (Thumbnail) to display four-, nine- or 16- picture thumbnails.</td>
</tr>
<tr>
<td>Hide or show photo info</td>
<td>DISP</td>
<td>Hide or show photo info in monitor.</td>
</tr>
<tr>
<td>Switch the monitor</td>
<td></td>
<td>Switch between LCD monitor and electronic viewfinder display.</td>
</tr>
<tr>
<td>Record/play voice memo</td>
<td>K</td>
<td>Press K to record or play back voice memos up to 20 seconds in length.</td>
</tr>
<tr>
<td>Switch to shooting mode</td>
<td></td>
<td>Press or the shutter-release button to switch to the mode selected with the mode dial.</td>
</tr>
</tbody>
</table>

Pressing ▶ to Turn On the Camera

When the camera is off, holding down ▶ will turn the camera on in playback mode. The lens does not extend.

Viewing Pictures

Pictures stored in the internal memory can only be viewed if no memory card is inserted.

Deleting the Last Picture Shot

In shooting mode, press K to delete the last picture shot.
Using the Flash

In dark locations or when the subject is backlit, you can shoot pictures with flash by raising the built-in flash.

The flash has a range of about 0.5-8.8 m (1 ft. 8 in.-28 ft.) when the camera is zoomed out all the way. With maximum optical zoom applied, the range is about 0.5-5.6 m (1 ft. 8 in.-18 ft.) (when ISO sensitivity is set to Auto). When the built-in flash is raised, you can set the flash mode according to your shooting environment.

Available Flash Modes

<table>
<thead>
<tr>
<th>Flash Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO Auto</td>
<td>Flash fires automatically when lighting is poor.</td>
</tr>
<tr>
<td>AUTO with red-eye reduction</td>
<td>Reduces “red-eye” in portraits (32).</td>
</tr>
<tr>
<td>Off</td>
<td>Flash will not fire even when lighting is poor.</td>
</tr>
<tr>
<td>Fill flash</td>
<td>Flash fires when a picture is shot. Use to “fill-in” (illuminate) shadows and backlit subjects.</td>
</tr>
<tr>
<td>Slow sync</td>
<td>(auto) is combined with slow shutter speed. Flash illuminates main subject; slow shutter speeds are used to capture background at night or under dim light.</td>
</tr>
<tr>
<td>Rear-curtain sync</td>
<td>Flash fires just before shutter closes, creating effect of a stream of light behind moving subjects.</td>
</tr>
</tbody>
</table>
Setting the Flash Mode

1 Press the \( \text{\textregistered} \) (flash pop-up) button to raise the built-in flash.

When the built-in flash is lowered, it is fixed to \( \text{\textregistered} \) (off).

2 Press \( \text{\textregistered} \) (flash mode).

The flash menu is displayed.

3 Use the multi selector to choose the desired flash mode and press \( \text{OK} \).

The icon for the selected flash mode is displayed at the top of the monitor.

When \( \text{\textregistered} \text{\textregistered} \) (auto) is applied, \( \text{\textregistered} \text{\textregistered} \) is only displayed for a five seconds.

If a setting is not applied by pressing \( \text{OK} \) within a few seconds, the selection will be cancelled.
Using the Flash

Lowering the Built-in Flash
When not using the built-in flash, gently push to lower the flash until it clicks shut.

Shooting When Lighting is Poor and the Flash is Disabled (\( \text{@} \))
- Use of a tripod is recommended to stabilize the camera during shooting and avoid the effects of camera shake. Turn vibration reduction (\( \text{V} \)) 122 off when using a tripod.
- The \( \text{ISO} \) symbol is displayed when the camera automatically increases sensitivity to minimize blur caused by slow shutter speed. Pictures shot when \( \text{ISO} \) is displayed may be slightly mottled.

Note on Using the Flash
When using the flash at a wide-angle zoom position, reflections from dust particles in the air may appear as bright spots in pictures. To reduce these reflections, set the flash to \( \text{V} \) (Off), lower the built-in flash, or zoom in on the subject.

The Flash Indicator
The flash indicator shows flash status when the shutter-release button is pressed halfway.
- On: Flash will fire when picture is taken.
- Blinks: Flash charging. Wait a few seconds and try again.
- Off: Flash will not fire when picture is taken.

The Flash Mode Setting
When the built-in flash is raised in the \( \text{a} \) (auto), \( \text{P} \), \( \text{S} \), \( \text{A} \), and \( \text{M} \) modes, the default setting is \( \text{S\@} \) (auto). When any flash mode other than \( \text{S\@} \) (auto with red-eye reduction) is applied in \( \text{a} \) (auto) mode, the setting is only enabled until the camera is turned off. Turning the camera off returns flash mode to \( \text{S\@} \) (auto). When the flash mode is changed in the \( \text{P} \), \( \text{S} \), \( \text{A} \), and \( \text{M} \) exposure modes, the setting is remembered even after the camera is turned off. When flash mode is applied in a scene mode, the setting is only enabled until another shooting mode is selected or the camera is turned off.

Red-eye Reduction
This camera uses advanced red-eye reduction (“In-Camera Red-Eye Fix”). The flash fires repeatedly at low intensity before the main flash, reducing red-eye. The camera then analyzes the picture; if red-eye is detected, the affected area will be processed to further reduce red-eye before the picture is saved. Note that because there is a slight lag between the shutter-release button being pressed and the picture being shot, this mode is not recommended when a quick shutter response is required. The time before the next picture can be shot also increases slightly. Advanced red-eye reduction may not produce the desired results in all situations. In extremely rare instances, areas not subject to red-eye may be affected by advanced red-eye reduction processing; in these cases, choose another mode and try again.
Shooting with the Self-timer

The camera is equipped with a ten-second and two-second timer for self-portraits. When using the self-timer, use of a tripod is recommended. Turn vibration reduction (122) off when using a tripod.

1. Press (self-timer).
   The self-timer menu is displayed.

2. Use the multi selector to choose 10s or 2s and press OK.
   10s (ten seconds): Suited for important occasions (such as weddings)
   2s (two seconds): Suited for preventing camera shake
   The mode selected for self-timer is displayed.
   If a setting is not applied by pressing OK within a few seconds, the selection will be cancelled.

3. Frame the picture and press the shutter-release button halfway.
   Focus and exposure will be set.

4. Press the shutter-release button the rest of the way down.
   The self-timer starts, and the number of seconds remaining before the shutter is released is displayed in the monitor. The self-timer lamp blinks while the timer is counting down. About one second before the shutter is released, the lamp remains lit and stops blinking.
   When the shutter is released, the self-timer turns off.
   To stop the timer before a picture is shot, press the shutter-release button again.
Choosing a Focus Mode

Choose a focus mode according to the subject and composition.

**Autofocus**

Camera automatically adjusts focus according to distance to subject. Use when the distance from subject to lens is 40 cm (1 ft. 4 in.) or more, or 1.5 m (5 ft.) or more when camera is zoomed all the way out.

**Macro close-up**

Use for close-ups of flowers or small objects. The closest distance at which the camera can focus varies depending on the zoom position. When the zoom indicator is positioned on the wide-angle side where the mark glows green, the camera can focus on subjects as close as 10 cm (4 in.) from the lens. When zoom is positioned at the mark, the camera can focus on subjects as close as 1 cm (0.4 in.) from the lens.

**Infinity**

Use when shooting distant scenes through foreground objects such as windows or when shooting landscapes. The focus indicator or focus area glow green while the shutter-release button is pressed halfway. However, the camera may not be able to focus on nearby objects. The flash mode is set to (off).

**Manual focus**

The focus can be adjusted for any subject that is a distance of 1 cm to infinity from the lens. → 36

**Focus Modes Available in Each Shooting Mode**

(✔: available, -: not available)

<table>
<thead>
<tr>
<th>Mode</th>
<th>(auto)</th>
<th>P</th>
<th>S</th>
<th>A</th>
<th>M</th>
<th>Sport Continuous</th>
<th>Movie</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AF (Autofocus)</strong></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>(Macro close-up)</strong></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>(Infinity)</strong></td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>MF (Manual focus)</strong></td>
<td>–</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>–</td>
<td>✔</td>
</tr>
</tbody>
</table>

* Availability varies between different scene modes (39 to 44).
Choosing a Focus Mode

Setting the Focus Mode

1. Press \( \text{\text{focus mode}} \). The focus menu is displayed.

2. Use the multi selector to choose the desired focus mode and press \( \text{OK} \).

   The icon for the selected focus mode is displayed at the top of the monitor.

   When \( \text{AF} \) (autofocus) is applied, \( \text{AF} \) is only displayed for five seconds.

   If a setting is not applied by pressing \( \text{OK} \) within a few seconds, the selection will be cancelled.

- **Macro Close-up Mode**
  
  In macro close-up mode, the camera focuses continuously, even when the shutter-release button is not pressed halfway to lock focus. However, in \( P, S, A, \) and \( M \) modes, the setting of \text{Autofocus mode} \( \text{104} \) will be applied.

- **Infinity Focus Mode**
  
  If you set the camera to infinity focus mode while using \( \text{auto} \) mode or the \( P, S, A, \) or \( M \) exposure modes, the focus area will not appear on the screen.

- **The Focus Mode Setting**
  
  In \( \text{auto}, \) \( \text{sport continuous}, \) \( P, S, A, \) and \( M \) modes, the default setting is \( \text{AF} \) (autofocus). The focus mode applied in \( \text{auto} \) and \( \text{sport continuous} \) mode will be restored to its default setting when another shooting mode is selected or the camera is turned off. The focus mode applied in scene mode will be restored to its default setting when another shooting mode is selected or the camera is turned off.
Choosing a Focus Mode

Using Manual Focus

1. Press (focus mode) to display the focus menu.
   - Use the multi selector to choose MF, and press OK.
   - The manual focus setting screen is displayed.

2. Press ▲ or ▼ of the multi selector to adjust the focus.
   Adjust the focus while viewing the image in the monitor.
   - Press ▲ to focus on far away subjects.
   - Press ▼ to focus on subjects closer to the lens.
   - You can take pictures by pressing the shutter-release button in this step.

3. Press OK.
   - MF appears at the top of the monitor, and the focus is locked to the set focus.
   - To readjust the focus, repeat steps 1 to 3.

Notes on MF (Manual Focus)

Digital zoom is not available.
Exposure Compensation

Exposure compensation is used to alter exposure from the value suggested by the camera to make pictures brighter or darker.

1. Press (exposure compensation).
   The exposure compensation value will be displayed.
   Exposure compensation is not available in mode M (manual).

2. Press the multi selector \( \uparrow \) or \( \downarrow \) to adjust exposure.
   The exposure compensation guide is displayed.
   When the picture is too dark, adjust the exposure compensation in the positive (+) direction.
   When the picture is too bright, adjust the exposure compensation in the negative (–) direction.
   Exposure compensation can be set to values between –2.0 and +2.0 EV in increments of 1/3 EV.

3. Press the shutter-release button to shoot.
   Repeat steps 2 and 3 to shoot while adjusting the exposure compensation value a little at a time.

4. Press \( \square \).
   When an exposure compensation value other than 0.0 is applied, the value is displayed with the \( \square \) icon in the monitor.
   To cancel exposure compensation, select 0.0 before pressing \( \square \), or follow steps 1 and 2 to select 0.0.

Exposure Compensation Value
When exposure compensation is adjusted in (auto), \( \text{ \( \text{C} \) } \) (sport continuous) mode, or a scene mode, the setting is only enabled until another shooting mode is selected or the camera is turned off. Switching to another shooting mode or turning the camera off cancels exposure compensation and returns to 0.0.

Using Exposure Compensation
The camera tends to lower exposure when the frame is dominated by brightly lit objects and to increase exposure when the frame is mostly dark. Positive compensation may therefore be required to capture the brilliancy of very bright objects that fill the frame (for example, sunlit expanses of water, sand, or snow) or when the background is much brighter than the main subject. Negative compensation may be called for when large areas of the frame contain very dark objects (for example, a swath of dark green leaves) or when the background is much darker than the main subject.
Shooting Suited for the Scene

Shooting in the Scene Mode

Camera settings are automatically optimized for the selected subject type. The following scene modes are available.

The voice recording option can also be selected to record sound only.

<table>
<thead>
<tr>
<th>Portrait</th>
<th>Sunset</th>
<th>Fireworks show</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landscape</td>
<td>Dusk/dawn</td>
<td>Copy</td>
</tr>
<tr>
<td>Night portrait</td>
<td>Night landscape</td>
<td>Backlight</td>
</tr>
<tr>
<td>Party/indoor</td>
<td>Close up</td>
<td>Panorama assist</td>
</tr>
<tr>
<td>Beach/snow</td>
<td>Museum</td>
<td>Voice recording*</td>
</tr>
</tbody>
</table>

* See “Voice Recordings” (68).

Setting the Scene Mode

1. Rotate the mode dial to **SCENE**.

2. Press **MENU** to display the scene menu screen, choose the desired scene with the multi selector and press **OK**.

3. Frame the subject and shoot.
   - For scene modes that use the flash, be sure to press the  (flash pop-up) button to raise the built-in flash before shooting.

Image Quality and Image Size

Image quality (88) and Image size (89) can be set in the scene menu. The Image quality and Image size settings for the (auto) mode, scene modes, and P, S, A, and M exposure modes are linked to each other.
**Features**

**Portrait**

Use this mode for portraits in which the main subject stands out clearly. Portrait subjects exhibit smooth, natural-looking skin tones.
- The camera detects and focuses on a face looking toward the camera (Shooting with Face-Priority → 103).
- If the camera detects multiple faces, the camera focuses on the face closest to the camera.
- If no face is recognized, the camera will focus on the subject in the center focus area.
- Digital zoom is not available.

**Landscape**

Use this mode for vivid landscapes and cityscapes.
- Camera focuses at infinity. The focus area or focus indicator always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus.

**Icons Used for Descriptions**

The following icons are used for descriptions in this section: flash mode when the built-in flash is raised (30), self-timer (33), focus mode (34), exposure compensation (37), AF-assist illumination (123).

**Scene Mode Settings**

Adjustments to the flash mode setting, self-timer setting, focus mode setting, and exposure compensation value applied in any scene mode are cancelled and these settings return to their default values whenever another shooting mode is selected or the camera is turned off.
Shooting in the Scene Mode

**Night portrait**

Use this mode to achieve a natural balance between the main subject and background lighting in portraits shot at night.
- The camera detects and focuses on a face looking toward the camera (Shooting with Face-Priority → 103).
- If the camera detects multiple faces, the camera focuses on the face closest to the camera.
- If no face is recognized, the camera will focus on the subject in the center focus area.
- Shoot pictures with the built-in flash raised.
- Digital zoom is not available.

| Fill flash with slow sync and red-eye reduction. Other settings can be selected. |

**Party/indoor**

Captures the effects of candlelight and other indoor background lighting.
- Camera focuses on subject in center of frame.
- Hold the camera steadily as pictures are easily affected by camera shake. When shooting under low lighting, use of a tripod is recommended. Set Vibration reduction (122) to Off when using a tripod.

| Fill flash with slow sync and red-eye reduction. Other settings can be selected. |

**Beach/snow**

Captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water.
- Camera focuses on subject in center of frame.

| Other settings can be selected. |

---

**A**: For those scene modes with **A**, use of a tripod is recommended. Turn vibration reduction (122) off when using a tripod.

**NR**: Pictures shot in scene modes utilizing **NR** may be processed to reduce noise and therefore take longer to record.
Shooting in the Scene Mode

**Sunset**
Preserves the deep hues seen in sunsets and sunrises.
- Camera focuses on subject in center of frame.

| | | | Off* | | AF | | 0.0* | | AUTO* |
* Other settings can be selected.

**Dusk/dawn**
Preserves the colors seen in the weak natural light before sunrise or after sunset.
- Camera focuses at infinity. When the shutter-release button is pressed halfway, the focus area or focus indicator always glows green. Note, however, focus may not be set for near subjects, while the camera focuses at infinity.

| | | | Off* | | | | 0.0* | | Off |
* Other settings can be selected.

**Night landscape**
Slow shutter speeds are used to produce stunning night landscapes.
- Camera focuses at infinity. When the shutter-release button is pressed halfway, the focus area or focus indicator always glows green. Note, however, focus may not be set for near subjects, while the camera focuses at infinity.

| | | | Off* | | | | 0.0* | | Off |
* Other settings can be selected.

- For those scene modes with , use of a tripod is recommended. Turn vibration reduction (122) off when using a tripod.
- Pictures shot in scene modes utilizing may be processed to reduce noise and therefore take longer to record.
Shooting in the Scene Mode

Close-up
Photograph flowers, insects and other small objects at close range.
- (macro close-up) is selected for focus mode (34) and the camera automatically zooms to the position at the closest distance at which the camera can focus.
- The closest distance at which the camera can focus varies depending on the zoom position. When the zoom indicator is positioned where the mark glows green or at the mark, the camera can focus on subjects as close as 10 cm (4 in.) or 1 cm (0.4 in.) from the lens, respectively.
- **AF area mode** is set to Manual (102). When is pressed, camera focuses on subject in active focus area.
- The camera will continuously focus on different objects until you press the shutter-release button halfway to lock focus.
- As pictures are easily affected by camera shake, check the **Vibration reduction** (122) setting and hold the camera steadily.

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|
| |  |  | Off* |  |  |  |

* Other settings can be selected. Note that the flash may be unable to light entire subject at distances of less than 50 cm (1 ft. 8 in.).

Museum
Use indoors where flash photography is prohibited (for example, in museums and art galleries) or in other settings in which you do not want to use the flash.
- Camera focuses on subject in center of frame.
- **BSS** (Best Shot Selector) (98 to 99) is used when shooting.
- As pictures are easily affected by camera shake, check the **Vibration reduction** (122) setting and hold the camera steadily.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th>Off</th>
<th></th>
<th>AF</th>
<th>0.0</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Other settings can be selected.

2 Also (macro close-up) can be selected.
Shooting in the Scene Mode

**Fireworks show**

Slow shutter speeds are used to capture the expanding burst of light from a firework.
- Camera focuses at infinity. When the shutter-release button is pressed halfway, the focus indicator (A 26) always glows green. Note, however, focus may not be set for near subjects, while the camera focuses at infinity.
- Up to 11.5x optical zoom can be used.
- Digital zoom is not available.

<table>
<thead>
<tr>
<th>Flash</th>
<th>ISO</th>
<th>Metering</th>
<th>AF</th>
<th>Optical zoom</th>
<th>Digital zoom</th>
<th>Vibration reduction</th>
<th>Exposure Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>0.0</td>
<td>Off</td>
<td>0</td>
<td></td>
<td></td>
<td>Off</td>
<td>Off</td>
</tr>
</tbody>
</table>

**Copy**

Provides clear pictures of text or drawings on a white board or in print.
- Camera focuses on subject in center of frame.
- Use (macro close-up) mode (A 34) in focus mode with this mode to focus at short ranges.
- Colored text and drawings may not show up well.

<table>
<thead>
<tr>
<th>Flash</th>
<th>ISO</th>
<th>Metering</th>
<th>AF</th>
<th>Optical zoom</th>
<th>Digital zoom</th>
<th>Vibration reduction</th>
<th>Exposure Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>0.0</td>
<td>Auto</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>Auto</td>
</tr>
</tbody>
</table>

1 Other settings can be selected.
2 Also (macro close-up) can be selected.

**Backlight**

Use when light is coming from behind your subject, throwing features or details into shadow. The flash fires automatically to “fill in” (illuminate) shadows.
- Camera focuses on subject in center of frame.
- Shoot pictures with the built-in flash raised.

<table>
<thead>
<tr>
<th>Flash</th>
<th>AF</th>
<th>Optical zoom</th>
<th>Digital zoom</th>
<th>Vibration reduction</th>
<th>Exposure Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Auto*</td>
</tr>
</tbody>
</table>

* Other settings can be selected.

For those scene modes with , use of a tripod is recommended. Turn vibration reduction (122) off when using a tripod.
Shooting in the Scene Mode

Panorama assist

Use when shooting a series of pictures that will later be joined to form a single panorama using the supplied Panorama Maker software.
- Camera focuses on subject in center of frame.

1 Other settings can be selected.
2 (macro close-up) or (infinity) can also be selected.

Shooting Pictures for a Panorama

The camera focuses on the subject in the center of the frame. Use a tripod for best results. Turn vibration reduction (122) off when using a tripod.

1 Use the multi selector to choose Panorama assist in the scene menu and press OK.

The panorama direction icon (>) is displayed to show the direction in which pictures will be joined.

2 Use the multi selector to choose the direction and press OK.

Select how pictures will be joined together in the completed panorama; right (▷), left (◁), up (▲) or down (▼).

Yellow direction icons (▷) appear for the selected direction. When you press OK, the selected direction is set, and a white direction icon (>) appears for that direction.

Apply flash mode (30), self-timer (33), focus mode (34) and exposure compensation (37) settings with this step, if necessary. Press OK to reselect the direction.
3 Shoot the first picture.
The first picture is displayed in the first third of the monitor.

4 Shoot the second picture.
Compose the next picture so that it overlaps the first picture.
Repeat until you have shot the necessary number of pictures to complete the scene.

5 Press OK when shooting is completed.
The camera returns to step 2.

Panorama Assist
Flash mode (\(3\), self-timer (\(3\), focus (\(3\)), and exposure compensation (\(3\)) settings cannot be adjusted after the first shot. Pictures cannot be deleted, nor can zoom, image quality (\(8\)), or image size (\(9\)) be adjusted until the series is finalized.
The panorama series is terminated if the camera enters standby mode with the auto off function (\(12\)) during shooting. Setting the time allowed to elapse before the auto off function is enabled to a longer setting is recommended.

Exposure Lock
\(A\) is displayed to indicate that exposure, white balance, and focus have been locked at the values set with the first shot. All pictures taken in a panorama series have the same exposure, white balance, and focus settings.

Panorama Maker
Install Panorama Maker from the supplied Software Suite CD. Transfer pictures to a computer (\(7\)) and use Panorama Maker (\(7\)) to join them in a single panorama.

More Information
See “Image/Sound File and Folder Names” (\(13\)) for more information.
Sport Continuous Mode

Shooting in Sport Continuous Mode

Sports continuous mode allows rapid, continuous shooting while you press and hold the shutter-release button fully. With continuous shooting, instantaneous movements in moving subjects can be captured clearly.

1 Rotate the mode dial to (sport continuous).

2 Press MENU and choose a continuous shooting type.
   - Use the multi selector in the sport continuous menu to choose a type (47).
   - Press MENU or the shutter-release button to return to the shooting screen.

3 Frame the subject and shoot.
   - Camera focuses on subject in center of frame.
   - Continuous shooting takes place for as long as the shutter-release button is pressed fully.
   - If a high-speed continuous shooting setting (H, M, L) is selected, shooting ends when the maximum number of frames per shot is reached. To continue taking pictures, press the shutter-release button fully again.

Notes on Sport Continuous Mode

- The flash setting is fixed at (off).
- The focus mode (34) is set to FF (autofocus). During sport continuous mode, the camera continuously adjusts the focus with the autofocus function until you press the shutter-release button halfway and focus becomes fixed. MF (manual focus) is also available for the focus mode setting.
- Exposure compensation (37) is available.
- The focus, exposure, and white balance settings are fixed at the values for the first picture in each series.
- The self-timer is unavailable.
- The speed of continuous shooting may be slower depending on the image quality, image size, and shutter speed settings and the data transfer speed of the memory card.
- When a high-speed continuous shooting setting is selected, ISO sensitivity is automatically set to a high setting. Captured pictures may appear rough as a result.
- Be aware that shooting will stop if the built-in flash is raised or lowered while you are pressing the shutter-release button fully.
## Sport Continuous Menu

In the sport continuous menu, you can select the continuous shooting type and the image quality and image size recorded.

In sport continuous mode, press **MENU** to display the sport continuous menu and use the multi selector to choose the continuous shooting type.

### Types of Sport Continuous Shooting

<table>
<thead>
<tr>
<th>Type</th>
<th>Maximum continuous shooting speed</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✂️ Continuous H (default setting)</td>
<td>Approx. 13 frames per second (30 frames max.)</td>
<td>High-speed continuous shooting. The ISO sensitivity is set automatically within the range of ISO 640 to 1600. The shutter speed is set automatically within the range of 1/4,000 sec. to 1/15 sec.</td>
</tr>
<tr>
<td>✂️ Continuous M</td>
<td>Approx. 6 frames per second (30 frames max.)</td>
<td></td>
</tr>
<tr>
<td>✂️ Continuous L</td>
<td>Approx. 4 frames per second (30 frames max.)</td>
<td></td>
</tr>
<tr>
<td>✂️ Continuous</td>
<td>Approx. 1.1 frames per second (9 frames max.)</td>
<td>Continuous shooting. The ISO sensitivity is set automatically within the range of ISO 64 to 800.</td>
</tr>
</tbody>
</table>

### Image Quality and Image Size

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>✈️ Image quality</td>
<td>Choose the compression ratio for the pictures recorded. The options available are the same as those for the <strong>Image quality</strong> setting in the shooting menu ( ✈️ 88). However, the image quality setting in the sport continuous menu is stored separately and is not applied to other shooting modes.</td>
</tr>
</tbody>
</table>
| ✈️ Image size | Choose the size (pixel count) for the pictures recorded.  
  - When a high-speed continuous shooting setting is selected, only the ✈️ 2048×1536 (default setting), ✈️ 1600×1200, ✈️ 1280×960, ✈️ 1024×768, and ✈️ 640×480 image sizes are available.  
  - When **Continuous** is selected as the sport continuous type, the image sizes available are the same as those for the **Image size** setting in the shooting menu ( ✈️ 89).  
  - The image size setting in the sport continuous menu is stored separately from the image size setting in other shooting modes and is not applied to the other modes. |

### Notes on High-Speed Continuous Shooting

- Even if you choose ✈️ 2592×1944 or larger for the **Image size** setting while **Continuous** is selected as the sport continuous shooting type, the **Image size** setting will change to ✈️ 2048×1536 once you switch to **Continuous H**, **Continuous M**, or **Continuous L**.
- As the ISO sensitivity is fixed at 640 and over during high-speed continuous shooting (H, M, L), proper exposure may not be obtained in clear weather (pictures may be overexposed).
- If bright objects such as the sun or electric lights are captured during high-speed continuous shooting, vertical streaks of light may appear in the recorded images. We recommend that you avoid capturing bright objects during high-speed continuous shooting.
Shooting in P, S, A, and M Modes

By rotating the mode dial, you can shoot pictures in the following four exposure modes: P (programmed auto), S (shutter-priority auto), A (aperture-priority auto), and M (manual). In addition to allowing you to set the shutter speed and aperture yourself, these modes offer control over a variety of advanced settings such as changing the ISO sensitivity and white balance in the shooting menu (86).

<table>
<thead>
<tr>
<th>Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Camera sets shutter speed and aperture for optimal exposure. Recommended for snapshots and in other situations in which there is little time to adjust camera settings. Flexible program, which changes the combination of shutter speed and aperture, can be used (49).</td>
</tr>
<tr>
<td>S</td>
<td>User chooses shutter speed; camera selects aperture for best results. Use to freeze or blur motion.</td>
</tr>
<tr>
<td>A</td>
<td>User chooses aperture; camera selects shutter speed for best results. Use to blur background or bring both foreground and background into focus.</td>
</tr>
<tr>
<td>M</td>
<td>User controls both shutter speed and aperture.</td>
</tr>
</tbody>
</table>

Shutter Speed and Aperture

The same exposure can be achieved with different combinations of shutter speed and aperture, allowing you to freeze or blur motion and control depth of field. The following figure shows how shutter speed and aperture affect exposure. When the ISO sensitivity setting (96) is changed, the range of shutter speeds and aperture values at which the correct exposure can be obtained also changes.

Fast shutter speed: 1/1,000s  
Slow shutter speed: 1/30s  
Large aperture (small f-number): f/2.8  
Small aperture (large f-number): f/8.0
**P (Programmed Auto) Mode**

Shoot pictures with shutter speed and aperture value set automatically by the camera (48).

1. **Rotate the mode dial to P.**

2. **Frame the subject, focus, and shoot.**

   At default setting, the camera automatically selects the focus area containing the closest subject, from nine focus areas, and adjusts focus accordingly (102).

**Flexible Program**

In mode P, different combinations of shutter speed and aperture can be selected by rotating the command dial ("flexible program"). While flexible program is in effect, an asterisk (*) appears next to the mode indicator (P) in the monitor.

- Rotate the command dial to the right for large apertures (small f-numbers) that blur background details or fast shutter speeds that “freeze” motion.
- Rotate the command dial to the left for small apertures (large f-numbers) that increase depth of field or slow shutter speeds that blur motion.
- To restore default shutter speed and aperture settings, rotate the command dial until the asterisk next to the mode indicator is no longer displayed. Selecting another mode, or turning off the camera, also restores default shutter speed and aperture settings.

**Note on Shutter Speed**

When Continuous, BSS or Multi-shot 16 is selected for Continuous (98), or when a setting other than Off is selected for Auto bracketing (101), the slowest shutter speed available is down to 1/2 sec.
S (Shutter-Priority Auto) Mode

Set the shutter speed and shoot pictures (48).

1 Rotate the mode dial to S.

2 Rotate the command dial to choose the shutter speed value between 1/2,000 sec. and 8 sec.

3 Focus and shoot.
   At default setting, the camera automatically selects the focus area containing the closest subject, from nine focus areas, and adjusts focus accordingly (102).

S (Shutter-Priority Auto) Mode

- If the selected shutter speed would result in the picture being over- or underexposed, the shutter-speed display will flash when the shutter-release button is pressed halfway. Choose another shutter speed and try again.
- At speeds slower than 1/4 sec, the shutter speed indicator will turn red to show that noise reduction (105) is recommended to reduce “noise” in the form of randomly-spaced, brightly colored dots.

Note on Shutter Speed

When Continuous, BSS or Multi-shot 16 is selected for Continuous (98), or when a setting other than Off is selected for Auto bracketing (101), the slowest shutter speed available is down to 1/2 sec.
A (Aperture-Priority Auto) Mode

Set the aperture value and shoot pictures (48).

1 Rotate the mode dial to A.

2 Rotate the command dial to choose the f/-number (aperture value).
   When the camera is zoomed all the way out, aperture can be set to values between f/2.8 and f/8.0; at maximum zoom, aperture can be set to values between f/4.5 and f/8.0.

3 Focus and shoot.
   At default setting, the camera automatically selects the focus area containing the closest subject, from nine focus areas, and adjusts focus accordingly (102).

A (Aperture-Priority Auto) Mode

If the selected aperture would result in the picture being over- or underexposed, the aperture display will flash when the shutter-release button is pressed halfway. Choose another aperture and try again.

Note on Shutter Speed

When Continuous, BSS or Multi-shot 16 is selected for Continuous (98), or when a setting other than Off is selected for Auto bracketing (101), the slowest shutter speed available is down to 1/2 sec.

Aperture and Zoom

Aperture is expressed as an f-number, which is the ratio of the focal length of the lens to the effective diameter of the opening (aperture) through which light enters the camera. Large apertures (expressed by small f-numbers) let more light into the camera; small apertures (large f-numbers) less. When the camera is zoomed out, the focal length of the lens diminishes and the f-number decreases. When the camera is zoomed in, the focal length and f-number increase.

The COOLPIX P80 has a lens with a focal length of 4.7–84.2 mm and an aperture of f/2.8 to f/4.5.
M (Manual) Mode

Set the shutter speed and aperture value, and shoot pictures (\textsuperscript{\textcopyright} 48).

1. Rotate the mode dial to M.

2. Press the multi selector $\uparrow$ to activate the shutter speed setting.
   
The active setting switches between shutter speed and aperture each time the multi selector $\uparrow$ is pressed.
   
   At speeds slower than 1/4 sec., the shutter speed indicator turns red (\textsuperscript{\textcopyright} 50).

3. Rotate the command dial to choose a shutter speed between 1/2,000 sec. and 8 sec.
   
   When adjusting aperture or shutter speed, the degree of deviation from the exposure value measured by the camera is displayed for a few seconds in the exposure display.
   
   The degree of deviation in the exposure display is shown in EVs (-2 to +2 EV in increments of 1/3 EV). A display similar to that illustrated at right indicates that the picture will be overexposed by 1 EV (+1).

4. Press the multi selector $\uparrow$ to activate the aperture setting.
5 Rotate the command dial to choose an aperture value.

Repeat steps 2 to 5 to modify shutter speed and aperture settings until the desired exposure is achieved.

6 Focus and shoot.

At default setting, the camera automatically selects the focus area containing the closest subject, from nine focus areas, and adjust focus accordingly (102).

Note on Shutter Speed

When Continuous, BSS or Multi-shot 16 is selected for Continuous (98), or when a setting other than Off is selected for Auto bracketing (101), the slowest shutter speed available is down to 1/2 sec.

Note on ISO Sensitivity

When ISO sensitivity (96) is set to Auto (default setting), Fixed range auto, or High ISO sensitivity auto, ISO sensitivity will be fixed at ISO 64.
Viewing Multiple Pictures: Thumbnail Playback

Rotate the zoom control to **W (○)** (thumbnail playback) in full-frame playback mode (δ 28) to display pictures in “contact sheets” of thumbnail images. The following operations can be performed while thumbnails are displayed.

<table>
<thead>
<tr>
<th>To</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose pictures</td>
<td>Press the multi selector ▲ ▼ ◄ ► to choose pictures.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Rotate the command dial to choose pictures.</td>
<td>–</td>
</tr>
<tr>
<td>Change number of pictures displayed</td>
<td>Rotate the zoom control to <strong>W (○)</strong>, display picture thumbnails in the following order: 4 → 9 → 16</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Rotate the zoom control to <strong>T (◉)</strong>, the number of thumbnails changes reversely.</td>
<td>–</td>
</tr>
<tr>
<td>Cancel thumbnail playback</td>
<td>Press <strong>OK</strong>.</td>
<td>28</td>
</tr>
<tr>
<td>Switch to shooting mode</td>
<td>Press <strong>play</strong> or the shutter-release button to switch to the mode selected with the mode dial.</td>
<td>28</td>
</tr>
</tbody>
</table>

**Thumbnail Playback Mode Display**

When pictures for which **Print set** (δ 84) and **Protect** (δ 111) settings have been configured are selected, the icons in the illustration to the right appear. Movies are displayed as film frames.
Taking a Closer Look: Playback Zoom

Rotating the zoom control to T (琦) during full-frame playback mode (琦 28) zooms the current picture in 3x, with the center of the picture displayed in the monitor. The guide at lower right shows which portion of the picture is enlarged.

The following operations can be performed while pictures are zoomed in.

<table>
<thead>
<tr>
<th>To</th>
<th>Use</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom in</td>
<td>T (琦)</td>
<td>Zoom increases each time the zoom control is rotated to T (琦), up to about 10x. Zoom also increases by rotating the command dial to right.</td>
</tr>
<tr>
<td>Zoom out</td>
<td>W (¼)</td>
<td>Zoom decreases each time the zoom control is rotated to W (¼). When the magnification ratio reaches 1x, the display returns to full-frame playback mode. Zoom also decreases by rotating the command dial to left.</td>
</tr>
<tr>
<td>View other areas of picture</td>
<td></td>
<td>Press the multi selector ▲, ▼, ◄ or ► to move to areas of the picture not visible in the monitor.</td>
</tr>
<tr>
<td>Switch to full-frame playback</td>
<td>〇</td>
<td>Press 〇.</td>
</tr>
<tr>
<td>Crop picture</td>
<td>MENU</td>
<td>Press MENU to crop current picture to contain only the portion visible in the monitor.</td>
</tr>
<tr>
<td>Switch to shooting mode</td>
<td>〇</td>
<td>Press 〇 or the shutter-release button to switch to the mode selected with the mode dial.</td>
</tr>
</tbody>
</table>

Pictures Taken in Face Priority

When the zoom control is rotated to T (琦) during full-frame playback mode for pictures taken in **Face priority** (琦 103), the picture will be enlarged using the face (which was focused on during shooting time) as the centralized point.

If several faces are recognized, the picture will be enlarged using the face (which was focused on during shooting time) as the centralized point, and pressing the multi selector ▲, ▼, ◄, or ► will enable you to switch between the people’s faces.

You can change the zoom ratio by rotating the zoom control to T (琦) or W (¼).
Use the COOLPIX P80 to edit pictures in-camera and store them as separate files (132). The editing features described below are available.

<table>
<thead>
<tr>
<th>Editing function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Lighting (57)</td>
<td>Create a copy of the current picture with enhanced brightness and contrast, brightening dark portions of the picture.</td>
</tr>
<tr>
<td>Crop (58)</td>
<td>Enlarge the image or refine the composition and create a copy containing only the portion visible in the monitor.</td>
</tr>
<tr>
<td>Small picture (59)</td>
<td>Create a small copy of pictures suitable for use on web pages or as e-mail attachments.</td>
</tr>
<tr>
<td>Black border (60)</td>
<td>Create a copy with a black frame along border of the picture that provides a little more impact.</td>
</tr>
</tbody>
</table>

**Picture Editing**

- Pictures shot at an image size of 3,648 × 2,432, 3,584 × 2,016, and 2,736 × 2,736 (89) cannot be modified using an editing function other than black border.
- The COOLPIX P80’s editing functions may not be available for pictures shot with non-COOLPIX P80 digital cameras.
- If a copy created using the COOLPIX P80 is viewed on a different digital camera, the picture may not be displayed or may not be transferred to a computer.
- Editing functions are not available when there is not enough free space in the internal memory or on the memory card.

**Restrictions on Picture Editing** (✔: available, –: not available)

<table>
<thead>
<tr>
<th>2nd editing</th>
<th>1st editing</th>
<th>D-Lighting</th>
<th>Crop</th>
<th>Small picture</th>
<th>Black border</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Lighting</td>
<td>–</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>–</td>
</tr>
<tr>
<td>Crop</td>
<td>–</td>
<td>–</td>
<td>✔</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Small picture</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Black border</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

- Pictures cannot be edited twice with the same editing function.
- The D-Lighting should be done first while the restricted use of combination exists.
- A black border cannot be applied to copies created using editing functions.

**Original Pictures and Edited Copies**

- Copies created with editing functions are not deleted if the original pictures are deleted. The original pictures are not deleted if copies created with editing functions are deleted.
- Edited copies are stored with the same recording date and time as the original.
- Edited copies are not marked for printing (84) or protecting (111) as the original.
Enhancing Brightness and Contrast: D-Lighting

D-Lighting can be used to create copies with enhanced brightness and contrast, brightening dark portions of a picture. Enhanced copies are stored as separate files.

1. Select the desired picture from full-frame (28) or thumbnail (54) playback mode and press **MENU**.
   The playback menu is displayed.

2. Use the multi selector to choose **D-Lighting** and press **OK**.
   The original version will be shown on the left and the edited version will be shown on the right.

3. Choose **OK** and press **OK**.
   A new copy with enhanced brightness and contrast is created.
   To cancel D-Lighting, choose **Cancel** and press **OK**.
   D-Lighting copies can be recognized by the **icon** displayed during playback.

More Information

See “Image/Sound File and Folder Names” (132) for more information.
Creating a Cropped Copy: Crop

This function is only available when [MENU] is displayed in the monitor with playback zoom (55) enabled. Cropped copies are stored as separate files.

1 Rotate the zoom control to T (Q) in full-frame playback mode to zoom in on the image.

2 Refine copy composition.
   Rotate the zoom control to T or W to adjust the zoom ratio.
   Press the multi selector ▲, ▼, ◄ or ► to scroll the picture until only the portion you want to copy is visible in the monitor.

3 Press [MENU].

4 Use the multi selector to choose Yes and press OK.
   A new picture, containing only the portion visible in the monitor, is created.
   To cancel creating a cropped copy, choose No.

Depending on the size of the original picture and the zoom ratio in effect at the time the copy was created, the camera will automatically select one of the following image size settings for cropped copies (unit: pixels).

- 3,264 × 2,448
- 2,592 × 1,944
- 2,272 × 1,704
- 2,048 × 1,536
- 1,600 × 1,200
- 1,280 × 960
- 1,024 × 768
- 640 × 480
- 320 × 240
- 160 × 120

When the image-mode setting for a cropped copy is 320×240 or 160×120, a gray frame will appear around the picture during playback, and the □ or □ small picture icons will appear on the left side of the monitor.

More Information

See “Image/Sound File and Folder Names” (132) for more information.
Resizing Pictures: Small Picture

Create a small copy of the current picture. Small copies are stored as JPEG files with a compression ratio of 1:16. The following sizes are available.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>640×480</td>
<td>Suited to television playback.</td>
</tr>
<tr>
<td>320×240</td>
<td>Suited to display on web pages.</td>
</tr>
<tr>
<td>160×120</td>
<td>Suitable for e-mail attachments.</td>
</tr>
</tbody>
</table>

1. Select the desired picture from full-frame (A 28) or thumbnail (A 54) playback mode and press MENU.
   The playback menu is displayed.

2. Use the multi selector to choose Small pic. and press OK.

3. Choose the desired copy size and press OK.

4. Choose Yes and press OK.
   A new, smaller copy is created.
   To cancel creating a small copy, choose No.
   The copy is displayed with a gray frame.

More Information
See “Image/Sound File and Folder Names” (A 132) for more information.
**Adding Black Frame on Pictures: Black Border**

This function creates copies with **Thin**, **Medium**, or **Broad** black lines, along borders of pictures. Copies with black frame are stored as separate files.

1. Select the desired picture from full-frame (A 28) or thumbnail (A 54) playback mode and press **MENU**. The playback menu is displayed.

2. Use the multi selector to choose **Black border** and press **OK**.

3. Choose the desired thickness of frame and press **OK**.

4. Choose **Yes** and press **OK**.
   
   A new copy with black frame is created.
   
   To cancel creating a copy with black frame, choose **No**.

**Black Border**

- Borders of a picture will be hidden with black lines because black portion is drawn from picture’s edges according to their thickness.
- When a picture with black border are printed using printer’s borderless print function, black frame may not be printed.

**More Information**

See “Image/Sound File and Folder Names” (A 132) for more information.
Voice Memos: Recording and Playback

Use the camera’s built-in microphone to record voice memos for pictures marked with \( \text{OK} \) in full-frame playback mode (\( \text{V} \) 28).

Recording Voice Memos

A voice memo, up to 20 seconds in length, will be recorded while \( \text{OK} \) is pressed down.
• Do not touch the built-in microphone during recording.
• During recording, \( \text{REC} \) and \( \text{M} \) blink.

Playing Voice Memos

Press \( \text{OK} \) while a picture is displayed in full-frame playback mode to play voice memo. Playback ends when the voice memo ends or \( \text{OK} \) is pressed again.
• Pictures with voice memos can be recognized by the \( \text{OK} \) icons.
• Use the zoom control \( \text{T} (\text{Q})/\text{W} (\text{m}) \) during playback to adjust the volume.

Deleting Voice Memos

Select a picture with a voice memo and press \( \text{F} \). Use the multi selector to choose \( \text{M} \) and press \( \text{OK} \). Only the voice memo will be deleted.

✔ Voice Memos
• When a picture with a voice memo attached is deleted, both the picture and its voice memo are deleted.
• If a voice memo already exists for the current picture, it must be deleted before a new voice memo can be recorded.
• The COOLPIX P80 cannot be used to attach voice memos to pictures shot with cameras other than the COOLPIX P80.

🔍 More Information
See “Image/Sound File and Folder Names” (\( \text{V} \) 132) for more information.
Recording Movies

To shoot movies with sound recorded via the built-in microphone, follow the steps below.

1. **Rotate the mode dial to 🎥.**
   
   Exposure count display shows maximum total length of movie that can be recorded.

2. **Press the shutter-release button all the way down to start recording.**
   
   Camera focuses on the subject in the center focus area.
   
   A progress bar at the bottom of the monitor shows the amount of recording time remaining.
   
   To end recording, press the shutter-release button all the way down a second time.

✅ **Recording Movies**

- Exposure compensation (37) is available. RF (autofocus), 📸 (macro close-up), and Infinity (infinity) are available for the focus mode (34). Flash (30) can only be used for time-lapse movies. The self-timer is unavailable.
- Flash mode (30), focus mode (34), and exposure compensation (37) settings cannot be applied or changed while movies are being recorded. Apply or change settings as necessary before movie recording begins.
- Optical zoom cannot be adjusted once movie recording begins. Digital zoom cannot be applied before movie recording begins. However, digital zoom (up to 2x) can be applied while movies, other than stop-motion movies, are being recorded.
- With the exception of Time-lapse movie 🌟 mode, the angle of view (field of view) when shooting movies is smaller than when shooting still pictures.

💡 **Changing Movie Settings**

- Movie options, autofocus mode, or electronic VR can be changed (63).
- When Movie options is set to Time-lapse movie 🌟, movies are recorded without sound.
**The Movie Menu**

**Movie options, Autofocus mode** and **Electronic VR** settings can be changed from the movie menu. Press **MENU** in movie mode to display the movie menu and use the multi selector to modify and apply settings.

### Selecting Movie Options

The movie menu offers the options shown below.

<table>
<thead>
<tr>
<th>Option</th>
<th>Image size and frame rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>![TV] TV movie 640 ★</td>
<td>Image size: 640 × 480 pixels</td>
</tr>
<tr>
<td>(default setting)</td>
<td>Frame rate: 30 frames per second</td>
</tr>
<tr>
<td>![TV] TV movie 640</td>
<td>Image size: 640 × 480 pixels</td>
</tr>
<tr>
<td></td>
<td>Frame rate: 15 frames per second</td>
</tr>
<tr>
<td>![320] Small size 320</td>
<td>Image size: 320 × 240 pixels</td>
</tr>
<tr>
<td></td>
<td>Frame rate: 15 frames per second</td>
</tr>
<tr>
<td>![5] Time-lapse movie ★</td>
<td>The camera automatically shoots pictures at intervals and</td>
</tr>
<tr>
<td></td>
<td>joins them into a silent movie (65).</td>
</tr>
<tr>
<td></td>
<td>Image size: 640 × 480 pixels</td>
</tr>
<tr>
<td></td>
<td>Frame rate for playback: 30 frames per second</td>
</tr>
<tr>
<td>![5] Sepia movie 320</td>
<td>Record movies in sepia tones.</td>
</tr>
<tr>
<td></td>
<td>Image size: 320 × 240 pixels</td>
</tr>
<tr>
<td></td>
<td>Frame rate: 15 frames per second</td>
</tr>
<tr>
<td>![5] B&amp;W movie 320</td>
<td>Record movies in black and white.</td>
</tr>
<tr>
<td></td>
<td>Image size: 320 × 240 pixels</td>
</tr>
<tr>
<td></td>
<td>Frame rate: 15 frames per second</td>
</tr>
</tbody>
</table>

**Using the Command Dial to Choose Movie Options**

Movie options can also be selected by holding down **Fn** and rotating the command dial.
### Movie Options and Maximum Movie Length and Frames

<table>
<thead>
<tr>
<th>Option</th>
<th>Internal memory (approx. 50 MB)</th>
<th>Memory card (256 MB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV Movie 640 ★ (default setting)</td>
<td>45 sec.</td>
<td>Approx. 3 min. 40 sec.</td>
</tr>
<tr>
<td>TV Movie 640</td>
<td>1 min. 30 sec.</td>
<td>Approx. 7 min. 20 sec.</td>
</tr>
<tr>
<td>Small size 320</td>
<td>2 min. 57 sec.</td>
<td>Approx. 14 min. 30 sec.</td>
</tr>
<tr>
<td>Time-lapse movie ★</td>
<td>534 frames</td>
<td>1800 frames per movie</td>
</tr>
<tr>
<td>Sepia movie 320</td>
<td>2 min. 57 sec.</td>
<td>Approx. 14 min. 30 sec.</td>
</tr>
<tr>
<td>B&amp;W Movie 320</td>
<td>2 min. 57 sec.</td>
<td>Approx. 14 min. 30 sec.</td>
</tr>
</tbody>
</table>

* Movies can be as long as free space in the internal memory or on the memory card allows. All figures are approximate. Maximum movie length or frames varies with make of memory card. The maximum file size for a single movie is 2 GB. Therefore, the 2 GB maximum movie length will be displayed even when memory cards with greater capacities are used.

---

**More Information**

See “Image/Sound File and Folder Names” (132) for more information.
**Autofocus mode**
Choose how the camera focuses in movie mode.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single AF</td>
<td>Camera focuses when shutter-release button is pressed halfway and locks at this position during shooting.</td>
</tr>
<tr>
<td>Full-time AF</td>
<td>Camera focuses continuously until focus is acquired and locked. To prevent sound of camera focusing from interfering with recording, use of Single AF is recommended.</td>
</tr>
</tbody>
</table>

**Electronic VR**
Enable or disable electronic VR for movie recording.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Reduce the effects of camera shake in all movie modes except Time-lapse movie.</td>
</tr>
<tr>
<td>Off</td>
<td>Electronic VR is not enabled.</td>
</tr>
</tbody>
</table>

At settings other than Off, the electronic vibration reduction icon is displayed in the monitor (6).

**Vibration Reduction for Time-Lapse Movies**
To enable or disable vibration reduction while shooting in Time-lapse movie mode, use the Vibration reduction setting (122) in the setup menu (114).

**Time-Lapse Movies**
Record flowers opening or butterflies emerging from cocoons.

1. Use the multi selector to choose **Movie options** in the movie menu and press OK.
2 Choose **Time-lapse movie**★ and press OK.

3 Choose the interval between shots and press OK.

   Choose from intervals between 30 seconds and 60 minutes.

4 Press **MENU**.

   The camera returns to shooting mode.

5 Press the shutter-release button all the way down to start recording.

   Monitor turns off and power-on lamp blinks between shots.
   Monitor reactivates automatically for the next shot.

6 Press the shutter-release button all the way down a second time to end recording.

   Recording will automatically stop if the internal memory or memory card becomes full,
   or when 1,800 frames have been recorded. An 1,800-frame movie has a playback time of
   60 seconds.

**Time-Lapse Movie**

- Flash mode (730), focus mode (34), and exposure compensation (37) cannot be adjusted
  after the first picture is shot. Apply the appropriate settings before shooting begins.
- To prevent the camera from turning off unexpectedly during recording, use a fully charged
  battery.
- To power the camera continuously for extended periods, use an AC Adapter EH-62A (available
  separately from Nikon) (130). **Do not, under any circumstances, use another make or model
  of AC adapter.** Failure to observe this precaution could result in overheating or in damage to the
  camera.
- Do not rotate the mode dial to a different setting during recording.
Movie Playback

In full-frame playback mode (28), movies are recognized by movie options (63). To play a movie, display it in full-frame playback mode and press OK.

Use the zoom control T (Q)/W (H) during playback to adjust the volume. Rotate the command dial to advance or rewind the movie. Press the multi selector ◄ or ► to choose a control at the top of the monitor, then press OK to perform the selected operation. The following operations are available.

<table>
<thead>
<tr>
<th>To</th>
<th>Press</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rewind</td>
<td>◄</td>
<td>Rewind movie. Playback resumes when OK is released.</td>
</tr>
<tr>
<td>Advance</td>
<td>►</td>
<td>Advance movie. Playback resumes when OK is released.</td>
</tr>
<tr>
<td>Pause</td>
<td>II</td>
<td>Pause playback. The following operations can be performed while playback is paused.</td>
</tr>
<tr>
<td></td>
<td>◄</td>
<td>Rewind movie by one frame. Rewind continues while OK is pressed.</td>
</tr>
<tr>
<td></td>
<td>►</td>
<td>Advance movie by one frame. Advance continues while OK is pressed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Resume playback.</td>
</tr>
<tr>
<td>End</td>
<td>Q</td>
<td>End playback and return to full-frame playback.</td>
</tr>
</tbody>
</table>

Deleting Movie Files

Press P when being played back, when displayed in full-frame playback mode (28), or when selected in thumbnail (54) playback mode. A confirmation dialog is displayed. Choose Yes and press OK to delete the movie, or choose No and press OK to return to the normal playback display without deleting the movie.
Voice Recordings

Making Voice Recordings

Audio voice recordings can be recorded over the built-in microphone and played back over the built-in speaker.

1. Rotate the mode dial to **SCENE**.

2. Press **MENU** to display the scene menu, use the multi selector to choose 🎤 (voice recording), and press 🎥.

   The length of recording that can be made will be displayed.

3. Press the shutter-release button all the way down to start recording.

   The power-on lamp lights during recording.

   If no operations are performed for about 30 seconds after voice recording begins, the camera’s auto off function is enabled and the monitor turns off. If recording is still in progress, the power-on lamp will remain lit even if the monitor turns off.

   See “Operations During Recording” (69) for more information.

4. Press the shutter-release button all the way down a second time to end recording.

   Recording will end automatically if the internal memory or memory card becomes full, or after five hours of recording on the memory card.

More Information

See “Image/Sound File and Folder Names” (132) for more information.
### Operations During Recording

<table>
<thead>
<tr>
<th>To</th>
<th>Press</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivate the monitor</td>
<td></td>
<td>If the monitor has turned off, press ( \text{Play} ) to reactivate.</td>
</tr>
<tr>
<td>Pause/resume recording</td>
<td></td>
<td>Press once to pause recording; The power-on lamp will blink.</td>
</tr>
<tr>
<td>Create index*</td>
<td></td>
<td>During recording, press the multi selector ( \text{Up}, \text{Down}, \text{Left}, \text{Right} ) to create index. Indexes make it easy to locate desired portions of a recording. Start of recording is index number 01; other numbers that follow are assigned in ascending order each time the multi selector is pressed, up to index number 98.</td>
</tr>
<tr>
<td>End recording</td>
<td></td>
<td>Press the shutter-release button all the way down a second time to end recording.</td>
</tr>
</tbody>
</table>

* The copied files can be played back using QuickTime or any other WAV-compatible audio player. Note that index points created with the camera cannot be used when voice recordings are played back on computers.
Playing Voice Recordings

1. Press \( \text{\textup{\textmu}} \) in the voice recording screen (68, step 3).

2. Use the multi selector to choose the desired sound file and press \( \text{\textmu} \).

   The selected sound file will be played back.

![Select sound file]

- 006 15/05/2008 17:30
- 007 15/05/2008 18:30
- 008 26/05/2008 13:00
- 009 29/05/2008 16:40
- 010 03/06/2008 08:00

MENU Copy \( \text{\textmu} \) Play
Operations During Playback

Use the zoom control $T (\text{Q})\text{/}W (\text{W})$ to adjust audio playback volume. Use the command dial to advance or rewind the voice recording. Playback controls appear at the top of the monitor. Press the multi selector $\leftarrow$ or $\rightarrow$ to choose a control, then press $\text{OK}$ to perform the selected operation. The following operations are available.

<table>
<thead>
<tr>
<th>To</th>
<th>Press</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rewind</td>
<td>$\leftarrow$</td>
<td>Rewind voice recording. Playback resumes when $\text{OK}$ is released.</td>
</tr>
<tr>
<td>Advance</td>
<td>$\rightarrow$</td>
<td>Advance voice recording. Playback resumes when $\text{OK}$ is released.</td>
</tr>
<tr>
<td>Skip to previous index</td>
<td>$\leftarrow$</td>
<td>Skip to previous index.</td>
</tr>
<tr>
<td>Skip to next index</td>
<td>$\rightarrow$</td>
<td>Skip to next index.</td>
</tr>
</tbody>
</table>
| Pause            | $\text{II}$ | Pause playback. The following operations can be performed while playback is paused:  
|                  |       | Resume playback.                                                           |
| End              | $\text{S}$ | End playback and return to the sound file selection screen.                 |

Deleting Sound Files

Press $\text{Delete}$ during playback or after selecting a sound file (use the multi selector). A confirmation dialog will be displayed. To delete the file, choose $\text{Yes}$ and press $\text{OK}$. To cancel deletion, choose $\text{No}$ and press $\text{OK}$. 

![Delete Sound Files Dialog](delete-sound-files-dialog.png)
Copying Voice Recordings

Copy voice recordings between the internal memory and a memory card. This option is available only when a memory card is inserted.

1 Press MENU in the select sound file screen (A 70, step 2).

2 Use the multi selector to choose the option and press OK.
   - IN ➔ IN: Copy recordings from internal memory to memory card.
   - IN ➔ IN: Copy recordings from memory card to internal memory.

3 Choose the copy option and press OK.
   - Selected files: Proceed to step 4.
   - Copy all files: Proceed to step 5.

4 Choose the desired file.
   Press the multi selector ➔ to select the file (✔). Press the multi selector ➔ again to cancel the selection.
   - Multiple files can be selected.
   - Press OK to finalize file selection.

5 When a confirmation dialog is displayed, choose Yes and press OK.
   Copying starts.

Voice Recordings

The COOLPIX P80 may be unable to play or copy sound files created with cameras other than the COOLPIX P80.

No sound file. Message

If there are no sound files stored on the memory card when ▶ is pressed (A 70, step 1), the message No sound file. will be displayed. Press MENU to display the copy sound files screen, and copy the sound files stored in the camera’s internal memory to the memory card.
Connecting to Televisions, Computers and Printers

Connecting to a TV

Connect the camera to a television using the supplied audio/video cable to play back pictures on the television.

1. Turn off the camera.

2. Connect the camera to the TV using the supplied audio/video cable.
   Connect the yellow plug to the video-in jack on the TV, and the white plug to the audio-in jack.

3. Tune the television to the video channel.
   See the documentation provided with your television for details.

4. Hold down [/layouts1] to turn on the camera.
   The camera enters playback mode, and pictures recorded to the internal memory, or memory card, will be displayed on the television.
   While connected to the TV, the camera monitor will remain off.

Connecting an Audio/Video Cable

When connecting the audio/video cable, be sure that the camera connector is oriented correctly. Do not use force when connecting the audio/video cable to the camera. When disconnecting the audio/video cable, do not pull the connector at an angle.

Video Mode

Be sure that the camera’s video mode setting conforms to the standard used by your television. The video mode setting is an option set in the setup menu ([layouts1] 114) > Video mode ([layouts1] 126).
Connecting to a Computer

When the camera is connected to a computer using the supplied USB cable, pictures recorded with the camera can be copied (transferred) to the computer for storage using the Nikon Transfer software.

Before Connecting the Camera

Installing the Software

Before connecting the camera to a computer, software, including Nikon Transfer and Panorama Maker for creating panorama images, must be installed from the supplied Software Suite CD.

For more information on installing the software, refer to the Quick Start Guide.

Operating Systems Compatible with COOLPIX P80

Windows


If your computer is running Windows 2000 Professional, use a card reader or similar device to transfer pictures stored on the memory card to the computer (76).

Macintosh

Mac OS X (version 10.3.9, 10.4.11)

Refer to the Nikon website for the latest information on operating system compatibility.

Notes on Power Source

- When connecting the camera to a computer or printer, use a fully-charged battery to prevent the camera from turning off unexpectedly.
- To power the camera continuously for extended periods, use an AC Adapter EH-62A (available separately from Nikon) (130). Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera.
Transferring Pictures from the Camera to a Computer

1. Start the computer to which Nikon Transfer has been installed.
2. Turn off the camera.
3. Connect the camera to the computer using the supplied USB cable.
   - The power-on lamp will light up.
   - **Windows Vista**
     - When the AutoPlay dialog is displayed, select **Copy pictures to a folder on my computer using Nikon Transfer**.
     - To bypass this dialog in the future, check **Always do this for this device**. Nikon Transfer will start.
   - **Windows XP**
     - When the AutoPlay dialog is displayed, select **Nikon Transfer Copy pictures to a folder on my computer** and click **OK**.
     - To bypass this dialog in the future, check **Always use this program for this action**. Nikon Transfer will start.
   - **Mac OS X**
     - Nikon Transfer will start automatically if **Yes** was selected in the Auto-Launch setting dialog when Nikon Transfer was first installed.

**Connecting the USB Cable**

Be sure that the connectors are oriented correctly, and do not use force, to connect the USB cable. When disconnecting the USB cable, do not pull the connector at an angle. Connection may not be recognized when the camera is connected to a computer via a USB hub.
5 Transfer pictures when Nikon Transfer has finished loading.

Click **Start Transfer** in Nikon Transfer. At the default setting, all pictures are transferred to the computer.

At the Nikon Transfer default setting, the folder to which pictures are transferred is automatically opened when transfer is complete.

For more information on using Nikon Transfer, refer to help information contained in Nikon Transfer.

6 Disconnect the camera when transfer is complete.

Turn the camera off and disconnect the USB cable.

**For Users of Windows 2000 Professional**

Use a card reader or similar device to transfer the pictures stored on the memory card to the computer.

If the memory card has a capacity greater than 2 GB, or is SDHC-compliant, the intended device must support these features of the memory card.

- At the Nikon Transfer default settings, Nikon Transfer will start automatically when a memory card is inserted into the card reader or similar device. See step 5 above to transfer pictures.
- Do not connect the camera to the computer. If the camera is connected to the computer, the **Found New Hardware Wizard** dialog will be displayed. Select **Cancel**, close the dialog, and disconnect the camera from the computer.
- To transfer pictures stored in the camera’s internal memory to the computer, the pictures must first be copied to a memory card using the camera (72, 108, 113).
Using Standard OS Operations to Open Image/Sound Files

- Navigate to the folder on the computer’s hard disk to which pictures were saved and open a picture in the viewer supplied with your operating system.
- Sound files copied to the computer can be played back using QuickTime or any other WAV-compatible audio player.

Panorama Creation with Panorama Maker

- Use a series of pictures shot using the Panorama assist option in scene mode (A 44) to create a single panorama photo with Panorama Maker.
- Panorama Maker can be installed to a computer using the supplied Software Suite CD.
- After installation is complete, follow the procedure described below to start Panorama Maker.
  
  Windows
  Open All Programs (Programs under Windows 2000) from the Start menu > ArcSoft Panorama Maker 4 > Panorama Maker 4.
  
  Macintosh
  Open Applications by selecting Applications from the Go menu, and double-click the Panorama Maker 4 icon.
  
- For more information on using Panorama Maker, refer to the on-screen instructions and help information contained in Panorama Maker.

More Information

See “Image/Sound File and Folder Names” (A 132) for more information.
Connecting to a Printer

Users of PictBridge-compatible (149) printers can connect the camera directly to the printer and print pictures without using a computer.

![Diagram showing the process: Shoot pictures, Connect to printer, Print pictures one at a time, Print multiple pictures, Turn camera off and disconnect USB cable.]

**Notes on Power Source**
- When connecting the camera to a computer or printer, use a fully-charged battery to prevent the camera from turning off unexpectedly.
- To power the camera continuously for extended periods, use an AC Adapter EH-62A (available separately from Nikon) (130). *Do not, under any circumstances, use another make or model of AC adapter.* Failure to observe this precaution could result in overheating or in damage to the camera.

**Printing Pictures**

In addition to printing pictures transferred to a computer from your personal printer and printing over a direct camera-to-printer connection, the following options are also available for printing pictures:
- Insert a memory card into a DPOF-compatible printer’s card slot
- Take a memory card to a digital photo lab

For printing using these methods, specify the pictures and the number of prints each using your camera’s print set menu (84).
Connecting the Camera and Printer

1. Turn off the camera.

2. Turn on the printer.
   Check printer settings.

3. Connect the camera to the printer using the supplied USB cable.

4. Turn on the camera.
   When connected correctly, the PictBridge startup screen ① will be displayed in the camera monitor. Then the print selection screen will be displayed ②.

✔ Connecting the USB Cable

Be sure that the connectors are oriented correctly, and do not use force, to connect the USB cable. When disconnecting the USB cable, do not pull the connector at an angle.
Connecting to a Printer

**Printing Pictures One at a Time**

After connecting the camera to the printer correctly (79), print pictures by following the procedure below.

1. Use the multi selector ◀▶ to choose the desired picture and press OK.
   
   The command dial can also be used to choose the picture. Rotate the zoom control to W ( ) to display 12 thumbnails, and T ( ) to switch back to full-frame playback.

2. Choose **Copies** and press OK.

3. Choose the number of copies (up to nine) and press OK.

4. Choose **Paper size** and press OK.

5. Choose the desired paper size and press OK.

To specify paper size using printer settings, choose **Default** in the paper size menu.
6 Choose **Start print** and press \(\text{OK}\).

7 **Printing starts.**

Monitor display returns to that shown in step 1 when printing is complete.

To cancel before all copies have been printed, press \(\text{OK}\).

---

**Printing Multiple Pictures**

After connecting the camera to the printer correctly (\(\text{\#} 79\)), print pictures by following the procedure below.

1 **When the print selection screen is displayed, press \(\text{MENU}\).**

The print menu is displayed.

2 **Use the multi selector to choose **Paper size** and press \(\text{OK}\).**

To exit to the print menu, press \(\text{MENU}\).

3 **Choose the desired paper size and press \(\text{OK}\).**

To specify paper size using printer settings, choose **Default** in the paper size menu.
4 Choose **Print selection**, **Print all images** or **DPOF printing** and press OK.

**Print selection**

Choose the pictures and number of copies (up to nine) of each. Press the multi selector to select pictures, and press ▲ or ▼ to set the number of copies for each. The command dial can also be used to choose the pictures. Pictures selected for printing can be recognized by the check mark (✓) and the numeral indicating the number of copies to be printed. Pictures for which no copies have been specified will not be printed. Rotate the zoom control to T (Q) to switch to full-frame playback. Rotate the zoom control to W (M) to switch back to thumbnail display. Press OK when setting is complete. To print, choose **Start print** and press OK. Choose **Cancel** and press OK to return to the print menu.

**Print all images**

All pictures stored in the internal memory, or on the memory card, are printed one at a time. The menu shown at right will be displayed. To print, choose **Start print** and press OK. Choose **Cancel** and press OK to return to the print menu.
DPOF printing

Print pictures for which a print order was created in Print set (84). The menu shown at right will be displayed. To print, choose Start print and press \( \text{OK} \). Choose Cancel and press \( \text{OK} \) to return to the print menu.

To view the current print order, choose View images and press \( \text{OK} \). To print pictures, press \( \text{OK} \) again.

Printing starts.

Monitor display returns to the print menu (step 2) when printing is complete.

To cancel before all copies have been printed, press \( \text{OK} \).

---

Paper Size

The camera supports the following paper sizes: Default (the default paper size for the current printer), 3.5 \( \times \) 5 in., 5 \( \times \) 7 in., 100 \( \times \) 150 mm, 4 \( \times \) 6 in., 8 \( \times \) 10 in., Letter, A3, and A4. Only sizes supported by the current printer will be displayed. To specify paper size using printer settings, choose Default in the paper size menu.
Creating a DPOF Print Order: Print Set

The Print set option in the playback menu is used to create digital “print orders” for printing on DPOF-compatible devices (149). When the camera is connected to a PictBridge-compatible printer, pictures can be printed from the printer according to the DPOF print order you have created for pictures on the memory card. If the memory card is removed from the camera, you can create the DPOF print order for pictures in the internal memory and print pictures according to the DPOF print order.

1. Press MENU in playback mode.
   The playback menu is displayed.

2. Use the multi selector to choose Print set and press OK.
   The print set menu is displayed.

3. Choose Select images and press OK.

4. Choose the pictures and number of copies (up to nine) of each.
   Press the multi selector ▲ or ▼ to select pictures, and press ▲ or ▼ to set the number of copies for each. The command dial can also be used to choose the pictures. Pictures selected for printing can be recognized by the check mark (✔) icon and the numeral indicating the number of copies to be printed. The pictures for which no copies have been specified will not be printed.
   Rotate the zoom control to T (🔘) to switch to full-frame playback.
   Rotate the zoom control to W (🔘) to switch back to thumbnail display.
   Press OK when setting is complete.
5 Choose whether or not to also print shooting date and photo information.

Choose **Date** and press \( \textcircled{1} \) to print date of recording on all pictures in the print order.

Choose **Info** and press \( \textcircled{2} \) to print photo information (shutter speed and aperture) on all pictures in the print order.

Choose **Done** and press \( \textcircled{1} \) to complete the print order and exit.

Pictures selected for printing are recognized by the \( \textcircled{1} \) icon displayed during playback.

**Notes on Printing Shooting Date and Photo Information**

When the **Date** and **Info** options are enabled in the print set menu, shooting date and photo information are printed on pictures when a DPOF-compatible (149) printer which supports printing of shooting date and photo information is used.

- Photo information cannot be printed when the camera is connected directly to a printer, via the supplied USB cable, for DPOF printing (83).
- **Date** and **Info** are reset each time the print set menu is displayed.

**Deleting All Print Orders**

Choose **Delete print set** in step 3 and press \( \textcircled{1} \). Print orders for all pictures will be deleted.

**Note on the Print Set Date Option**

The date and time printed on pictures with DPOF printing, when **Date** in the print set menu is enabled, are those recorded with the picture as it was shot. Date and time printed using this option are not affected when the camera’s date and time setting are changed from the setup menu after pictures are recorded.

**Date Imprint**

When date and time of recording are imprinted on pictures using the **Date imprint** option (120) in the setup menu, pictures with the date and time imprinted on them can be printed from printers that do not support printing of the date and time on pictures. Only the **Date imprint** date and time on pictures will be printed, even if **Print set** is enabled with **Date** selected in the print set screen.
Shooting, Playback and Setup Menus

**Shooting Options: The Shooting Menu**

The shooting menu of P, S, A, and M modes contain the following options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image quality</td>
<td>88</td>
</tr>
<tr>
<td>Choose the image quality (compression ratio) of recorded pictures.</td>
<td></td>
</tr>
<tr>
<td>Image size*</td>
<td>89</td>
</tr>
<tr>
<td>Choose the image size of recorded pictures.</td>
<td></td>
</tr>
<tr>
<td>Optimize image*</td>
<td>91</td>
</tr>
<tr>
<td>Control contrast, sharpness, and saturation.</td>
<td></td>
</tr>
<tr>
<td>White balance*</td>
<td>94</td>
</tr>
<tr>
<td>Match white balance to the light source.</td>
<td></td>
</tr>
<tr>
<td>ISO sensitivity*</td>
<td>96</td>
</tr>
<tr>
<td>Control the camera’s sensitivity to light.</td>
<td></td>
</tr>
<tr>
<td>Metering</td>
<td>97</td>
</tr>
<tr>
<td>Choose how the camera meters exposure.</td>
<td></td>
</tr>
<tr>
<td>Continuous*</td>
<td>98</td>
</tr>
<tr>
<td>Select the option to shoot pictures one at a time, in a sequence, or with Best Shot Selector (BSS).</td>
<td></td>
</tr>
<tr>
<td>Auto bracketing*</td>
<td>101</td>
</tr>
<tr>
<td>Vary exposure over a sequence of pictures.</td>
<td></td>
</tr>
<tr>
<td>AF area mode*</td>
<td>102</td>
</tr>
<tr>
<td>Choose where the camera focuses.</td>
<td></td>
</tr>
<tr>
<td>Autofocus mode</td>
<td>104</td>
</tr>
<tr>
<td>Choose how the camera focuses.</td>
<td></td>
</tr>
<tr>
<td>Flash exp. comp.</td>
<td>105</td>
</tr>
<tr>
<td>Adjust flash level.</td>
<td></td>
</tr>
<tr>
<td>Noise reduction*</td>
<td>105</td>
</tr>
<tr>
<td>Reduce noise in pictures shot at slow shutter speeds.</td>
<td></td>
</tr>
<tr>
<td>Distortion control*</td>
<td>106</td>
</tr>
<tr>
<td>Correct the distortion.</td>
<td></td>
</tr>
</tbody>
</table>

* See the information on restrictions that may apply to these settings (106).
Displaying the Shooting Menu

Choose P (Programmed Auto), S (Shutter-Priority Auto), A (Aperture-Priority Auto), or M (Manual) by rotating the mode dial. Press MENU to display the shooting menu.

- Press the multi selector ▲ or ▼ to select items and set functions on menus (10).
- To return to the shooting mode from the shooting menu, press MENU or the shutter-release button.

Navigating the Camera Menu

The command dial can also be used in place of the multi selector.
Image Quality

Choose the amount of compression applied to pictures. Lower compression ratios result in higher quality pictures, but also larger file sizes, limiting the number of pictures that can be recorded.

<table>
<thead>
<tr>
<th>Fine</th>
<th>Fine quality images (compression ratio of 1:4), suitable for enlargement or high-quality prints.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal (default setting)</td>
<td>Normal image quality (compression of 1:8), suited to most applications.</td>
</tr>
<tr>
<td>Basic</td>
<td>Basic image quality (compression of 1:16), suitable for pictures that will be distributed by e-mail or used in web pages.</td>
</tr>
</tbody>
</table>

Image quality is shown by an icon in the monitor (6, 7).

Note on the Image Quality Setting

The image quality setting is applied to the (auto) shooting mode, scene modes, and P, S, A, and M exposure modes simultaneously (Multi-shot 16 (98) is excluded). The image quality setting in the sport continuous menu is stored separately from the image quality setting in other shooting modes and is not applied to the other modes.

More Information

See “Number of Exposures Remaining” (90) for more information.
**Image Size**

Choose the size of pictures in pixels for recording. Pictures shot at smaller sizes require less memory, making them suited to distribution by e-mail or the web. Conversely, the larger the image, the larger the size at which it can be printed or displayed without becoming noticeably “grainy,” limiting the number of pictures that can be recorded.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[\text{M}] 3648×2736 (default setting)</td>
<td>Record pictures exhibiting greater detail than those shot at [\text{E}] 3264×2448 or [\text{D}] 2592×1944.</td>
</tr>
<tr>
<td>[\text{E}] 3264×2448</td>
<td>Good balance between file size and quality makes this the best choice in most situations.</td>
</tr>
<tr>
<td>[\text{D}] 2592×1944</td>
<td>Smaller than [\text{M}] 3648×2736, [\text{E}] 3264×2448, and [\text{D}] 2592×1944 for recording more pictures.</td>
</tr>
<tr>
<td>[\text{C}] 2048×1536</td>
<td>Record pictures suited to display on a computer monitor.</td>
</tr>
<tr>
<td>[\text{B}] 1600×1200</td>
<td>Record pictures suited to display on a television, or to distribution via e-mail or the web.</td>
</tr>
<tr>
<td>[\text{A}] 1280×960</td>
<td>Record pictures with the same aspect ratio (3:2) as those shot with 35mm film cameras.</td>
</tr>
<tr>
<td>[\text{J}] 1024×768</td>
<td>Record pictures with the same aspect ratio (16:9) as wide-screen televisions.</td>
</tr>
<tr>
<td>[\text{I}] 3648×2432</td>
<td>Record perfectly square pictures.</td>
</tr>
</tbody>
</table>

Image size is shown by an icon in the monitor (\[\text{6, 7}\]).

**Note on the Image Size Setting**

The image size setting is applied to the \[\text{P}\] (auto) shooting mode, scene modes, and \[\text{S, A, M}\] exposure modes simultaneously (Multi-shot 16 (\[\text{98}\]) is excluded). The image size setting in the sport continuous menu is stored separately from the image size setting in other shooting modes and is not applied to the other modes.
### Number of Exposures Remaining

The following table lists the approximate number of pictures that can be stored in internal memory, and on a 256- MB memory card, at each combination of image quality (page 88) and image size (page 89) settings. Note that the number of pictures that can be stored will differ depending on the composition of the picture (due to JPEG compression). In addition, this number may differ depending on the make of memory card, even if the capacity for the memory card is the same.

<table>
<thead>
<tr>
<th>Image size</th>
<th>Image quality</th>
<th>Internal memory (approx. 50 MB)</th>
<th>256MB memory card&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Print size (printed at 300 dpi; cm/in.)&lt;sup&gt;2&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>📷 3648×2736 (default setting)</td>
<td>Fine</td>
<td>10</td>
<td>50</td>
<td>31 × 23/12.2 × 9</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>20</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>40</td>
<td>195</td>
<td></td>
</tr>
<tr>
<td>📷 3264×2448</td>
<td>Fine</td>
<td>12</td>
<td>60</td>
<td>28 × 21/10.8 × 8.1</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>25</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>50</td>
<td>245</td>
<td></td>
</tr>
<tr>
<td>📷 2592×1944</td>
<td>Fine</td>
<td>20</td>
<td>100</td>
<td>22 × 16/8.6 × 6.4</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>40</td>
<td>195</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>78</td>
<td>380</td>
<td></td>
</tr>
<tr>
<td>📷 2048×1536</td>
<td>Fine</td>
<td>32</td>
<td>155</td>
<td>17 × 13/6.8 × 5.1</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>62</td>
<td>305</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>118</td>
<td>580</td>
<td></td>
</tr>
<tr>
<td>📷 1600×1200</td>
<td>Fine</td>
<td>52</td>
<td>255</td>
<td>14 × 10/5.3 × 4</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>100</td>
<td>490</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>178</td>
<td>870</td>
<td></td>
</tr>
<tr>
<td>📷 1280×960</td>
<td>Fine</td>
<td>80</td>
<td>390</td>
<td>11 × 8/4.2 × 3.2</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>145</td>
<td>715</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>267</td>
<td>1310</td>
<td></td>
</tr>
<tr>
<td>📷 1024×768</td>
<td>Fine</td>
<td>118</td>
<td>580</td>
<td>9 × 7/3.4 × 2.5</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>213</td>
<td>1045</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>356</td>
<td>1745</td>
<td></td>
</tr>
<tr>
<td>📷 640×480</td>
<td>Fine</td>
<td>267</td>
<td>1310</td>
<td>5 × 4/2.1 × 1.6</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>401</td>
<td>1965</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>641</td>
<td>3145</td>
<td></td>
</tr>
<tr>
<td>📷 3648×2432</td>
<td>Fine</td>
<td>11</td>
<td>55</td>
<td>31 × 21/12.2 × 8.3</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>23</td>
<td>110</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>45</td>
<td>220</td>
<td></td>
</tr>
<tr>
<td>📷 3584×2016</td>
<td>Fine</td>
<td>14</td>
<td>70</td>
<td>30 × 17/11.8 × 6.7</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>28</td>
<td>135</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>55</td>
<td>270</td>
<td></td>
</tr>
<tr>
<td>📷 2736×2736</td>
<td>Fine</td>
<td>13</td>
<td>65</td>
<td>23 × 23/9.1 × 9.1</td>
</tr>
<tr>
<td></td>
<td>Normal</td>
<td>27</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic</td>
<td>53</td>
<td>260</td>
<td></td>
</tr>
</tbody>
</table>

<sup>1</sup> If the number of exposures remaining is 10,000 or more, the number of exposures remaining display shows “9999”.

<sup>2</sup> Print sizes are calculated by dividing the number of pixels by printer resolution (dpi) and multiplying by 2.54 cm (1 in.). However, at the same image size, pictures printed at higher resolutions will print smaller the size indicated, and those printed at lower resolutions will print larger than the size indicated.
Optimize Image
Optimize contrast, sharpening, and other settings according to how pictures will be used or the type of scene.

- **Normal (default setting)**
  Recommended in most situations.

- **Softer**
  Softens outlines, producing natural results suitable for portraits or retouching on a computer.

- **Vivid**
  Enhances saturation, contrast, and sharpness to produce vivid images with vibrant reds, greens, and blues.

- **More vivid**
  Maximizes saturation, contrast, and sharpness to produce crisp images with sharp outlines.

- **Portrait**
  Lowers contrast while lending natural texture and rounded feel to skin of portrait subjects.

- **Custom**
  Customize image optimization settings (page 92).

- **Black-and-white**
  Shoot photos in black-and-white (page 93).

At settings other than Normal, the indicator for the current optimize image setting is displayed in the monitor during shooting (page 6).

Optimize Image
At settings other than Custom and Black-and-white > Custom, results are optimized for current shooting conditions and vary with exposure and the position of the subject in the frame. For consistent results over a series of photographs, select Custom and choose a setting other than Auto for contrast, sharpening, and saturation.
Customizing Image Enhancement Options: Custom

Select **Custom** to make separate adjustments to the following options.

### Contrast

Control contrast. Lower settings prevent loss of detail in highlights under harsh lighting or in direct sunlight. Higher settings preserve detail in misty landscapes and other low-contrast subjects. The default setting is **Auto**.

### Image sharpening

Choose how much outlines are sharpened during shooting. Choose high settings for sharp outlines, low settings for softer outlines. The default setting is **Auto**.

### Saturation

Control the vividness of colors. Choose **Moderate** for less saturated colors, **Enhanced** for more vivid colors. The default setting is **Auto**.

**Note on Image Sharpening**

The effects of image sharpening cannot be previewed in the monitor during shooting. Check results in playback mode.
Shooting in Black-and-White: Black-and-White

When **Black-and-white** is selected, the options described below are available.

Choose **Standard** to shoot in basic black-and-white, or **Custom** to manually adjust contrast, sharpening, and filter effects. When the **B&W + color** option is enabled (✓), one black-and-white picture and the same picture in full color are recorded simultaneously.

The following options can be adjusted in **Custom**.

### Contrast

Same as **Optimize image > Custom > Contrast** (92).

### Image sharpening

Same as **Optimize image > Custom > Image sharpening** (92).

### Monochrome filter

This effect simulates black-and-white photography with a color filter.

- **Yellow, Orange, Red**
  Enhance contrast. Can be used to tone down the brightness of the sky in landscape photographs. Orange filter results in greater contrast than yellow filter, and red filter greater contrast than orange filter.

- **Green**
  Softens skin tones. Suitable for portraits.

---

**B&W + Color**

Color pictures recorded when **B&W + color** is enabled are the same as those shot at an **Optimize image** setting of **Normal**.
White Balance

The color of light reflected from an object varies with the color of the light source. The human brain is able to adapt to changes in the color of the light source, with the result that white objects appear white whether seen in the shade, direct sunlight, or under incandescent lighting. Digital cameras can mimic this adjustment by processing images according to the color of the light source. This is known as “white balance.” For natural coloration, choose a white balance setting that matches the light source before shooting. Although the default setting, Auto, can be used under most types of lighting, you can apply the white balance setting suited to a particular light source to achieve more accurate results.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto</td>
<td>White balance automatically adjusted to suit lighting conditions. Best choice in most situations.</td>
</tr>
<tr>
<td>Preset manual</td>
<td>Neutral-colored object used as reference to set white balance under unusual lighting conditions, see “Preset Manual” (95) for details.</td>
</tr>
<tr>
<td>Daylight</td>
<td>White balance adjusted for direct sunlight.</td>
</tr>
<tr>
<td>Incandescent</td>
<td>Use under incandescent lighting.</td>
</tr>
<tr>
<td>Fluorescent</td>
<td>Use under most types of fluorescent lighting.</td>
</tr>
<tr>
<td>Cloudy</td>
<td>Use when shooting under overcast skies.</td>
</tr>
<tr>
<td>Flash</td>
<td>Use with the flash mode.</td>
</tr>
</tbody>
</table>

At settings other than Auto, the icon for the current setting is displayed in the monitor (6).

Flash Mode

At white-balance settings other than Auto or Flash, turn the flash off (30).
Preset Manual
Preset manual is used with mixed lighting or to compensate for light sources with a strong color cast (for example, to make pictures shot under a lamp with a red shade look as though they had been shot under white light).

1. Place a white or gray reference object under the lighting that will be used during shooting.

2. Use the multi selector to choose \textit{Preset manual} in the white balance menu, and press \( \text{OK} \).
   The camera zooms in.

3. Choose \textit{Measure}.
   To apply the most recently measured value for preset manual, choose \textit{Cancel} and press \( \text{OK} \).

4. Frame the reference object.

5. Press \( \text{OK} \).
   The shutter is released and the new white-balance value is set.
   No pictures are recorded.

\begin{itemize}
\item \textbf{Note on Preset Manual}
\end{itemize}
Regardless of the flash mode selected, the flash will not fire when \( \text{OK} \) is pressed in step 5. Therefore, the camera cannot measure a value for preset manual for when the flash is used.
Shooting Options: The Shooting Menu

**ISO ISO Sensitivity**

Sensitivity is a measure of how quickly the camera reacts to light. The higher the sensitivity, the less light needed to make an exposure. Although a high ISO rating is suited for shooting pictures of subjects in action or in poor lighting, high sensitivity is often associated with “noise” - randomly spaced, brightly colored pixels concentrated in dark parts of the image.

**Auto (default setting)**

Sensitivity is ISO 64 under normal conditions; when lighting is poor and the flash is off, the camera compensates by raising sensitivity to a maximum of ISO 800. In **M** mode, sensitivity will be locked at ISO 64.

**High ISO sensitivity auto**

The ISO sensitivity is set automatically within the range of ISO 64 to 1600 according to the brightness of the subject.

If **High ISO sensitivity auto** is set when **M** is selected with the mode dial, the ISO sensitivity is fixed to 64.

**Fixed range auto**

Choose the range in which the camera automatically adjusts ISO sensitivity, in **P**, **S**, and **A** modes, from **ISO 64-100** (default setting), **ISO 64-200**, or **ISO 64-400**. The camera will not raise sensitivity beyond the maximum value in the selected range for effective control over the amount of “grain” that appears in images.

In **M** mode, sensitivity will be locked at ISO 64.

**64, 100, 200, 400, 800, 1600, 2000, 3200, 6400**

Sensitivity will be locked at the specified value.

At the settings other than **Auto**, the current setting is displayed in the monitor (6). If **Auto** is selected and the sensitivity is raised above ISO 64, the **ISO** icon will be displayed (32). When **High ISO sensitivity auto** is set,  is displayed. When **Fixed range auto** is selected,  and the maximum ISO sensitivity value are displayed.

**Notes on ISO 3200 and 6400**

- When **3200** or **6400** is selected for **ISO sensitivity**, a  icon will appear on the ISO sensitivity value. In addition, the image size will display in red during shooting.

- When **ISO sensitivity** is set to **3200** or **6400**, **Image size** cannot be set to 3648x2736, 3264x2448, 2592x1944, 3648x2432, 3584x2016, and 2736x2736. At these image size settings, selecting **3200** or **6400** for **ISO sensitivity** automatically switches the **Image size** setting to 2048x1536. When any option other than **3200** or **6400** is next selected for **ISO sensitivity**, the original image size setting is restored.

- At an **ISO sensitivity** setting of **3200** or **6400**, the **Multi-shot 16** (98) option of the continuous shooting mode is not available. At a **Continuous** setting of **Multi-shot 16**, selecting **3200** or **6400** for **ISO sensitivity** switches the **Continuous** setting to **Single**. The **Continuous** setting does not change even when **ISO sensitivity** is set to options other than **3200** or **6400**.

\[96\]
Shooting Options: The Shooting Menu

**Metering**
Choose how the camera meters exposure.

<table>
<thead>
<tr>
<th><strong>Matrix (default setting)</strong></th>
<th>Camera sets exposure for entire frame. Recommended in most situations.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Center-weighted</strong></td>
<td>Camera meters entire frame but assigns greatest weight to subject in center of frame. Classic meter for portraits; preserves background details while letting lighting conditions at center of frame determine exposure. Can be used with focus lock (A 27) to meter off-center subjects.</td>
</tr>
<tr>
<td><strong>Spot</strong></td>
<td>Camera meters area shown by circle in center of frame. Ensures that subject in metering target is correctly exposed even if background is much lighter or darker. Can be used with focus lock (A 27) to meter off-center subjects.</td>
</tr>
<tr>
<td><strong>Spot AF area</strong></td>
<td>Camera meters selected focus area (A 102). Available only when a setting other than Center is selected for AF area mode.</td>
</tr>
</tbody>
</table>

**Note on Metering**
When digital zoom is in effect, at magnifications of 1.2× to 1.8×, Metering is set to Center-weighted, and at magnifications of 2.0× to 4.0×, Metering is set to Spot. When digital zoom is in effect, the metered area is not shown in the monitor.

**Metering Area**
The active metering area is displayed in the monitor when Center-weighted or Spot is selected.
Continuous

Capture motion in a series of pictures and apply Best Shot Selector (BSS). When Continuous, BSS, or Multi-shot 16 is selected, the flash will be disabled, and focus, exposure and white balance are fixed at the values for the first picture in each series.

Single (default setting)
One picture is shot each time shutter-release button is pressed.

Continuous
While the shutter-release button is held down, up to 9 pictures are shot at a rate of about 1.1 frames per second (fps) when image quality is set to Normal and image size is set to 3648x2736.

BSS
BSS is recommended for shooting under low lighting without the flash, with the camera zoomed in, or in other situations in which camera shake is likely to blur pictures.
When Best Shot Selector (BSS) is enabled, the camera shoots up to ten pictures while the shutter-release button is held down. The sharpest picture (picture with the most detail) in the series is automatically selected and saved.

Multi-shot 16
Each time shutter-release button is pressed, camera shoots 16 pictures at about 1.1 frames per second and arranges them in a single picture with image quality is set to Normal and image size is set to 2592x1944.
Digital zoom cannot be applied.
At an ISO sensitivity setting of 3200 or 6400, the Multi-shot 16 option is not available.
When shooting with the Multi-shot 16 option, select options other than 3200 or 6400 for ISO sensitivity and select Multi-shot 16 for Continuous.

Intvl timer shooting
Camera shoots (up to 1,800 frames) automatically at specified interval.

At settings other than Single, the indicator for the current setting is displayed in the monitor (6).

Note on Best Shot Selector
BSS may not produce the desired results if the subject moves or the composition changes while the shutter-release button is pressed all the way down.

Note on Shutter Speed
When Continuous, BSS or Multi-shot 16 is selected for Continuous, the slowest shutter speed available is down to 1/2 sec.
**Note on Continuous Shooting**

- The maximum frame rate with continuous shooting may vary, depending upon the current image quality setting, image size setting, and the memory card used.
- Be aware that shooting will stop if the built-in flash is raised or lowered while you are pressing the shutter-release button fully in **Continuous** or **BSS** mode.

**Interval Timer Shooting**

Pictures are shot automatically at specified intervals. Choose from intervals between 30 seconds and 60 minutes.

1. Use the multi selector to choose **Intvl timer shooting** in the continuous menu, and press **OK**.

2. Choose interval between shots and press **OK**.

3. Press **MENU**.

   The camera returns to shooting mode.

4. Press the shutter-release button all the way down to shoot the first picture and initiate interval timer shooting.

   Monitor turns off and power-on lamp blinks between shots.

   The monitor turns back on automatically right before the next picture is shot.

5. Press the shutter-release button all the way down a second time to end recording.

Recording will end automatically if the internal memory or memory card becomes full, or when 1,800 pictures have been recorded.
**Note on Interval Timer Shooting**

- To prevent the camera from turning off unexpectedly during recording, use a fully charged battery.

- To power the camera continuously for extended periods, use an AC Adapter EH-62A (available separately from Nikon) (130). *Do not, under any circumstances, use another make or model of AC adapter.* Failure to observe this precaution could result in overheating or in damage to the camera.

- Do not rotate the mode dial, while performing interval-timer shooting.

**More Information**

See “Image/Sound File and Folder Names” (132) for more information.
**BKT Auto Bracketing**

Auto bracketing is used to vary exposure by a selected amount over a series of pictures, “bracketing” the exposure value selected by the camera or with exposure compensation. Use in situations in which it is difficult to guess the correct exposure.

- **±0.3**
  
  Camera varies exposure by 0 EV, +0.3 EV, and –0.3 EV over next three shots. Keep shutter-release button pressed to take all three shots in sequence.

- **±0.7**
  
  Camera varies exposure by 0 EV, +0.7 EV, and –0.7 EV over next three shots. Keep shutter-release button pressed to take all three shots in sequence.

- **±1.0**
  
  Camera varies exposure by 0 EV, +1.0 EV, and –1.0 EV over next three shots. Keep shutter-release button pressed to take all three shots in sequence.

- **Off (default setting)**
  
  Bracketing is not performed.

At settings other than **Off**, the icon for the current setting is displayed in the monitor during shooting (6).

**Notes on Auto Bracketing**

- Auto bracketing is not available in **M** mode.
- When exposure compensation is applied (37), and ±0.3, ±0.7, or ±1.0 is selected for **Auto bracketing**, the combined exposure compensation values will be applied.
- When a setting other than **Off** is selected for **Auto bracketing**, the slowest shutter speed available is down to 1/2 sec.
AF Area Mode

Use this option to determine where the camera focuses. When digital zoom is effect, the camera will focus on the subject in the center focus area regardless of the applied AF area mode option.

Face priority

The camera automatically detects and focuses on a face looking toward the camera (Shooting with Face-Priority → 103). When shooting pictures of subjects other than people, or framing a subject with which no face is recognized, AF area mode will be set to Auto. The camera chooses the focus area (one of nine) containing the subject closest to the camera and focuses on the subject.

Auto (default setting)

Camera automatically selects the focus area (one of nine) containing the subject closest to the camera. Press the shutter-release button halfway to activate the focus area. When the shutter-release button is pressed halfway, the focus area selected by the camera will be displayed in the monitor.

Manual

This option is suited to situations in which the intended subject is relatively still and not positioned in the center of the frame. Press the multi selector ▲, ▼, ◀ or ▶ to select from 99 focus areas in the frame. Pictures can be shot while focus-area selection screen is displayed. To end focus-area selection and adjust the flash mode, focus mode, self-timer and exposure compensation settings, press K. To return to the focus-area selection screen, press K.

- At an Image size setting (89) of 2736×2736, 81 focus areas are available.
Shooting with Face-Priority

When **Face priority** is selected for **AF area mode**, or the **Portrait** scene mode or **Night portrait** scene mode is selected during shooting, the face-priority function will be applied.

The camera automatically detects and focuses on a face looking toward the camera.

1. **Frame the picture.**
   When the camera detects a face, the focus area containing the face will be displayed with a yellow double border.
   When the camera detects more than one face, the closest face is framed by a double border and the others by single borders. Up to 12 faces can be detected.

2. **Press the shutter-release button halfway.**
   The camera focuses on the face framed by the double border. The double border will glow green and focus will be locked.
   When the double border blinks, the camera is unable to focus. Press the shutter-release button halfway again to focus.
   Press the shutter-release button all the way down to shoot.

---

**More Information**

See “Autofocus” (27) for more information.
Face Priority

- When **Face priority** is selected for **AF area mode**, the setting will automatically switch to **Auto** if no face is recognized when the shutter-release button is pressed halfway.
- If no face is recognized when the shutter-release button is pressed halfway in **Portrait** or **Night portrait** scene mode, the camera will focus on the subject in the center focus area.
- The camera may be unable to detect faces in the following situations:
  - When faces are partially hidden by sunglasses or other obstructions
  - When faces take up too much or too little of the frame
  - When the subject is not looking directly at the camera
- The camera’s ability to detect faces depends on a variety of factors, including whether or not the subject is facing the camera.
- In some rare cases shooting subjects with which autofocus may not perform as expected (27), the subject may not be in focus despite the fact that the focus area glows green. Should this occur, switch to **A** (auto) mode or change the **AF area mode** setting to **Manual** or **Center** in **P**, **S**, **A**, and **M** modes, refocus on another subject positioned at the same distance from the camera as the actual portrait subject, and use focus lock (27).
- When a face is detected during shooting, pictures will be rotated automatically, in full-frame and thumbnail playback modes, according to the orientation of the face detected.

Autofocus mode

Choose how the camera focuses.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single AF (default setting)</td>
<td>Camera focuses when shutter-release button is pressed halfway.</td>
</tr>
<tr>
<td>Full-time AF</td>
<td>Camera adjusts focus continuously until shutter-release button is pressed halfway. Use with moving subjects.</td>
</tr>
</tbody>
</table>
**Flash Exp. Comp.**

Flash compensation is used to adjust flash output by ±2.0 EV in increments of 1/3 EV, changing the brightness of the main subject relative to the background.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.3 to -2.0</td>
<td>Flash output is reduced from -0.3 to -2.0 EV, in increments of 1/3 EV, to prevent unwanted highlights or reflections.</td>
</tr>
<tr>
<td>0.0 (default setting)</td>
<td>Flash output is not adjusted.</td>
</tr>
<tr>
<td>+0.3 to +2.0</td>
<td>Flash output is increased from +0.3 to +2.0 EV, in increments of 1/3 EV, to make the main subject of the frame appear brighter.</td>
</tr>
</tbody>
</table>

At settings other than 0.0, the icon for the current setting is displayed in the monitor during shooting (6).

---

**Noise Reduction**

At slow shutter speeds, pictures may be affected by “noise” in the form of randomly-spaced, brightly-colored dots concentrated in dark parts of the image. Use this option to reduce noise at slow shutter speeds. Enabling noise reduction increases the time needed to record pictures after they are shot.

**Auto** (default setting)

Noise reduction is performed at slow shutter speeds, likely to result in pictures affected by noise. When Continuous, BSS, or Multi-shot 16 is selected for Continuous, or when Auto bracketing is enabled, noise reduction will not be performed.

**On**

Noise reduction is applied to pictures shot at shutter speeds slower than 1/4 sec. On is recommended when shooting at slow shutter speeds. Only Single or Intvl timer shooting can be selected for Continuous. Auto bracketing cannot be applied.

When noise reduction is performed, the icon is displayed in the monitor during shooting (6).
Distortion Control
Specify whether or not the distortion is corrected. Enabling distortion control reduces the size of the frame.

### On
Distortion at frame peripheries is corrected.

### Off (default setting)
No distortion correction performed.

Restrictions on Camera Settings
Restrictions apply to the following settings in P, S, A, and M modes.

**Flash mode**
Flash mode is disabled (🗑) when Continuous, BSS, or Multi-shot 16 is selected for Continuous, or when Auto bracketing is enabled. Applied setting is restored when Single or Intvl timer shooting is selected for Continuous, or Auto bracketing is turned off.

**Self-timer**
If self-timer is on, only one picture will be shot when shutter is released, regardless of settings chosen for Continuous and Auto bracketing. Applied Continuous and Auto bracketing settings are restored when picture is shot or self-timer is turned off.

**Focus mode**
When Face priority is selected for AF area mode, setting focus mode to (Infinity) changes AF area mode to Auto. Selecting an option other than (Infinity) for focus mode restores AF area mode to Face priority.

**Optimize image**
Selecting Black-and-white for Optimize image changes White balance to Auto. Selecting an option other than Black-and-white for Optimize image restores the original White balance setting.
Enabling the B&W + color option (✔) for the Black-and-white item in the Optimize image menu changes the Continuous setting to Single and the Auto bracketing setting to Off. These Continuous and Auto bracketing settings do not change when the B&W + color option is disabled.
ISO sensitivity
When **ISO sensitivity** is set to **3200** or **6400**, **Image size** cannot be set to **3648×2736**, **3264×2448**, **2592×1944**, **3648×2432**, **3584×2016**, and **2736×2736**. At these image size settings, selecting **3200** or **6400** for **ISO sensitivity** automatically switches the **Image size** setting to **2048×1536**. When any option other than **3200** or **6400** is next selected for **ISO sensitivity**, the original image size setting is restored.

At an **ISO sensitivity** setting of **3200** or **6400**, the **Multi-shot 16** option of the continuous shooting mode is not available. At a **Continuous** setting of **Multi-shot 16**, selecting **3200** or **6400** for **ISO sensitivity** switches the **Continuous** setting to **Single**. The **Continuous** setting does not change even when **ISO sensitivity** is set to options other than **3200** or **6400**.

Continuous
Selecting an option other than **Single** for **Continuous** turns **Auto bracketing** off. Selecting **Multi-shot 16** changes image quality setting to **Normal** and image size setting to **2592×1944**.

When **Continuous**, **BSS**, or **Multi-shot 16** is selected, noise reduction will not be performed regardless of whether **Noise reduction** is set to **Auto**.

Auto bracketing
When **Auto bracketing** is enabled, **Continuous** will be set to **Single** and the flash mode will be disabled (§).

AF area mode
When **AF area mode** is set to **Center** while **Metering** is set to **Spot AF area**, the **Metering** setting will automatically change to **Matrix**. When a setting other than **Center** is next selected for **AF area mode**, the **Metering** setting automatically reverts back to **Spot AF area**.

Noise reduction
When **Auto** of **Noise reduction** is applied with **Continuous** set to an option other than **Single** or **Intvl timer shooting**, or with **Auto bracketing** set to an option other than **Off**, noise reduction will not be performed. Selecting **On** for **Noise reduction** changes **Continuous** to **Single**, when an option other than **Intvl timer shooting** is selected for **Continuous**, and **Auto bracketing** to **Off**.

Distortion control
When **Distortion control** is set to **Auto**, **Continuous** is automatically set to **Single** and **Auto bracketing** is set to **Off**.

Even when the **Distortion control** option is disabled, the **Continuous** and **Auto bracketing** settings do not change.
### Playback Options: The Playback Menu

The playback menu contains the following options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Lighting</td>
<td>57</td>
</tr>
<tr>
<td>Print set</td>
<td>84</td>
</tr>
<tr>
<td>Slide show</td>
<td>110</td>
</tr>
<tr>
<td>Delete</td>
<td>111</td>
</tr>
<tr>
<td>Protect</td>
<td>111</td>
</tr>
<tr>
<td>Rotate image</td>
<td>112</td>
</tr>
<tr>
<td>Hide image</td>
<td>112</td>
</tr>
<tr>
<td>Small pic.</td>
<td>59</td>
</tr>
<tr>
<td>Copy</td>
<td>113</td>
</tr>
<tr>
<td>Black border</td>
<td>60</td>
</tr>
</tbody>
</table>

**D-Lighting**

Copy current picture with enhanced details in shadows.

**Print set**

Select pictures to print and the number of copies for each.

**Slide show**

View pictures stored in the internal memory or on a memory card in an automatic slide show.

**Delete**

Delete all or selected pictures.

**Protect**

Protect selected pictures from accidental deletion.

**Rotate image**

Change the orientation of pictures.

**Hide image**

Hide selected pictures during playback.

**Small pic.**

Create a small copy of the current picture.

**Copy**

Copy files between memory card and internal memory.

**Black border**

Create the new picture surrounding with black border.

### Displaying the Playback Menu

Display the playback menu by pressing [ ] and pressing [MENU].

- Use the multi selector to choose and apply settings (10).
- To exit the playback menu, press [MENU].
Selecting Multiple Pictures

The picture selection screen, as shown at right, will be displayed with the following menus:

- **Playback menu**: print set (p 84), delete (p 111), protect (p 111), rotate image (p 112), hide image (p 112), copy (p 113)

- **Setup menu**: welcome screen (p 116)

Follow the procedure described below to select multiple pictures.

1. Press the multi selector ◀ or ▶ to choose the desired picture.
   
   The command dial can also be used in place of the multi selector.
   
   Only one picture can be selected for **Welcome screen**. Proceed to step 3.
   
   Rotate the zoom control to T (■) to switch to full-frame playback.
   
   Rotate the zoom control to W (□) to switch back to thumbnail display.

2. Press ▲ or ▼ to select ON or OFF (or the number of copies).
   
   When ON is selected, a check mark (✔) is displayed in the top left corner of the current picture. Repeat steps 1 and 2 to select additional pictures.

3. Press OK.
   
   The setting is enabled.
   
   When using **Rotate image**, select an orientation with the multi selector, and then press OK.
Slide Show

Play back pictures, stored in the internal memory or on a memory card, one by one in an automated “slide show.”

1 Use the multi selector to choose Start and press OK.

To change the interval between pictures, choose Frame intvl, select the desired interval time, and press OK before choosing Start.

To repeat the slide show automatically, enable Loop and press OK before choosing Start. The check mark (✓) will be added to the loop option when enabled.

2 The slide show begins.

While the slide show is in progress, the following operations can be performed:
- Press the multi selector ▶ to view pictures in the order recorded, or ◀ to view pictures in reverse order. Press and hold ▶ to fast forward, or ◀ to rewind.
- Press OK to pause the slide show.

3 Choose End or Restart.

When the slide show ends or is paused, choose End and press OK to return to the playback menu, or choose Restart to play the slide show again.

Notes on Slide Show

- Only the first frame of movies (67) included in slide shows is displayed.
- Even if Loop is selected, the maximum playback duration for a slide show is 30 minutes (124).
Delete

Delete selected pictures or all pictures.

Erase selected images

Delete selected pictures (109).

Erase all images

Delete all pictures.

Notes on Deletion

- Once deleted, pictures cannot be recovered. Transfer important images to a computer before deletion.
- Pictures marked with the icon are protected and cannot be deleted.

Protect

Protect selected pictures from accidental deletion (Selecting Multiple Pictures → 109).

Note, however, that formatting the camera’s internal memory or the memory card will permanently erase protected files (125).

Protected pictures are recognized by the icon (7, 54).
**Rotate image**
After shooting, set the orientation in which pictures are displayed during playback. You can rotate still pictures 90 degrees clockwise or 90 degrees counterclockwise. Select a picture in the picture selection screen (109), and press \( \text{OK} \) to display the Rotate image screen.
Press the multi selector \( \text{<} \) or \( \text{>} \) to rotate the picture 90 degrees. Pictures that were recorded in the portrait (vertical) orientation can be rotated up to 180 degrees in either direction.

Press \( \text{OK} \) to set the orientation displayed, and save the orientation data with the picture.

**Hide Image**
Use this setting to hide pictures during playback.
See “Selecting Multiple Pictures” (109) for more information on using this function.
Hidden pictures cannot be deleted using the Delete option. Note, however, that formatting the internal memory or memory card (125) will delete hidden pictures.
Copy pictures between the internal memory and a memory card.

1. Use the multi selector to select an option from the copy screen and press OK.
   - \(\text{IN} \rightarrow \text{IN}\): Copy pictures from internal memory to memory card.
   - \(\text{IN} \rightarrow \text{IN}\): Copy pictures from memory card to internal memory.

2. Select a copy option and press OK.
   - **Selected images**: Copy pictures selected from the picture selection screen (109).
   - **All images**: Copy all pictures.

Notes on Copying Pictures
- JPEG-, AVI-, and WAV-format images can be copied. Images recorded in any other format cannot be copied.
- If voice memos (61) are attached to pictures selected for copying, voice memos are copied with the pictures. However, sound files recorded in voice recording mode (68) cannot be copied with this option. Sound files can be copied using the Copy sound files option (72) in audio playback mode.
- Pictures recorded with another make of camera or that have been modified on a computer cannot be copied.
- Edited copies have the same protection marking (111) as the original, but are not marked for printing (84).
- Hidden pictures (112) cannot be copied.

Memory contains no images. Message
If there are no pictures stored on the memory card when playback mode is applied, the message Memory contains no images. will be displayed. Press MENU to display the copy option screen, and copy the pictures stored in the camera’s internal memory to the memory card.

More Information
See “Image/Sound File and Folder Names” (132) for more information.
# Basic Camera Setup: The Setup Menu

The setup menu contains the following options.

<table>
<thead>
<tr>
<th>Menu</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Menus</strong></td>
<td>Choose how menus are displayed.</td>
</tr>
<tr>
<td><strong>Welcome screen</strong></td>
<td>Select screen displayed when camera is turned on.</td>
</tr>
<tr>
<td><strong>Date</strong></td>
<td>Set camera clock and choose home and destination time zones.</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>Adjust LCD monitor brightness.</td>
</tr>
<tr>
<td><strong>Date imprint</strong></td>
<td>Imprint date or date counter on pictures.</td>
</tr>
<tr>
<td><strong>Vibration reduction</strong></td>
<td>Enable vibration reduction for taking still pictures.</td>
</tr>
<tr>
<td><strong>AF assist</strong></td>
<td>Enable or disable AF-assist illumination.</td>
</tr>
<tr>
<td><strong>Digital zoom</strong></td>
<td>Enable or disable digital zoom.</td>
</tr>
<tr>
<td><strong>Sound settings</strong></td>
<td>Adjust sound settings.</td>
</tr>
<tr>
<td><strong>Auto off</strong></td>
<td>Set time before camera enters standby mode.</td>
</tr>
<tr>
<td><strong>Format memory/Format card</strong></td>
<td>Format internal memory or memory card.</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>Choose the language used for camera monitor display.</td>
</tr>
<tr>
<td><strong>Video mode</strong></td>
<td>Adjust settings for connection to TV.</td>
</tr>
<tr>
<td><strong>Reset all</strong></td>
<td>Restore camera settings to default values.</td>
</tr>
<tr>
<td><strong>Firmware version</strong></td>
<td>Display camera firmware version.</td>
</tr>
</tbody>
</table>
Displaying the Setup Menu

Rotate the mode dial to **SET UP**.

- Use the multi selector to choose and apply settings (10).
- To exit the setup menu, rotate the mode dial to another mode.

**Menus**

Select a format for menu display.

**Text (default setting)**

Text labels for menus are displayed in list format.

**Icons**

All menu items can be displayed in a single page.
Welcome Screen

You can select the welcome screen to be displayed when the camera is turned on.

<table>
<thead>
<tr>
<th>Default Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None (default setting)</td>
<td>Welcome screen is not displayed.</td>
</tr>
<tr>
<td>COOLPIX</td>
<td>Displays a welcome screen.</td>
</tr>
</tbody>
</table>

Select an image

Select a picture in the internal memory or on the memory card for the welcome screen. Choose a picture in the picture selection screen (page 109) and press OK. As the selected image is stored in the camera, the image will appear in the welcome screen even if the original picture is deleted. Pictures shot at an Image size setting (page 89) of 3648×2432, 3584×2016, or 2736×2736, or copies reduced to 160×120 size through cropping (page 58) and small picture editing (page 59), cannot be selected.
**Date**

Set the camera clock and choose home and travel destination time zones.

**Date**

Set camera clock to current date and time.
See steps 6 and 7 of the section, “Setting Display Language, Date and Time” (19), for more information.

**Time zone**

-home time zone) can be specified and daylight saving enabled or disabled from Time zone options. When (destination time zone) is selected, the time difference (119) is automatically calculated and the date and time in the selected region are recorded. Useful when travelling.

**Setting Travel Destination Time Zone**

1. Use the multi selector to choose Time zone and press .

The time zone menu is displayed.

2. Choose and press .

The date and time displayed on the monitor changes according to the region currently selected.

If daylight saving time is in effect, use the multi selector to choose Daylight saving and press , and then press the multi selector . The time is automatically advanced one hour.
3 Press the multi selector ▶.
   The new city time zone menu is displayed.

4 Choose the travel destination time zone and press OK.
   The setting is enabled.
   While the travel destination time zone is selected, the ▶ icon will be displayed in the monitor when the camera is in shooting mode.

- **The Clock Battery**
  The clock battery charges when the main battery is installed or the AC Adapter EH-62A (available separately from Nikon) is connected, and can provide several days of backup power after about ten hours of charging.

- **Home Time Zone**
  - To switch to the home time zone, choose  in step 2.
  - To change the home time zone, choose  in step 2 and perform steps 3 and 4, to set the home time zone.

- **Daylight Saving Time**
  - If date and time are set when daylight saving time is not in effect: Turn Daylight saving on (✓) when daylight saving time begins, to automatically advance the camera’s clock one hour.
  - If date and time are set with Daylight saving turned on (✓) when daylight saving time is in effect: Turn Daylight saving off when daylight saving time ends, to automatically set the camera’s clock back one hour.
The camera supports the time zones listed below. For time differences not listed below, set the camera clock to local time. The table contains some locations that are not displayed on the camera’s time zone map.

<table>
<thead>
<tr>
<th>UTC +/-</th>
<th>Location</th>
<th>UTC +/-</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>−11</td>
<td>Midway, Samoa</td>
<td>+1</td>
<td>Madrid, Paris, Berlin</td>
</tr>
<tr>
<td>−10</td>
<td>Hawaii, Tahiti</td>
<td>+2</td>
<td>Athens, Helsinki, Ankara</td>
</tr>
<tr>
<td>−9</td>
<td>Alaska, Anchorage</td>
<td>+3</td>
<td>Moscow, Nairobi, Riyadh, Kuwait, Manama</td>
</tr>
<tr>
<td>−8</td>
<td>PST (PDT): Los Angeles, Seattle,</td>
<td>+4</td>
<td>Abu Dhabi, Dubai</td>
</tr>
<tr>
<td></td>
<td>Vancouver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>−7</td>
<td>MST (MDT): Denver, Phoenix, La</td>
<td>+5</td>
<td>Islamabad, Karachi</td>
</tr>
<tr>
<td></td>
<td>Paz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>−6</td>
<td>CST (CDT): Chicago, Houston,</td>
<td>+5.5</td>
<td>New Delhi</td>
</tr>
<tr>
<td></td>
<td>Mexico City</td>
<td></td>
<td></td>
</tr>
<tr>
<td>−5</td>
<td>EST (EDT): New York, Toronto,</td>
<td>+6</td>
<td>Colombo, Dhaka</td>
</tr>
<tr>
<td></td>
<td>Lima</td>
<td></td>
<td></td>
</tr>
<tr>
<td>−4</td>
<td>Caracas, Manaus</td>
<td>+7</td>
<td>Bangkok, Jakarta</td>
</tr>
<tr>
<td>−3</td>
<td>Buenos Aires, São Paulo</td>
<td>+8</td>
<td>Beijing, Hong Kong, Singapore</td>
</tr>
<tr>
<td>−2</td>
<td>Fernando de Noronha</td>
<td>+9</td>
<td>Tokyo, Seoul</td>
</tr>
<tr>
<td>−1</td>
<td>Azores</td>
<td>+10</td>
<td>Sydney, Guam</td>
</tr>
<tr>
<td>±0</td>
<td>London, Casablanca</td>
<td>+11</td>
<td>New Caledonia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>+12</td>
<td>Auckland, Fiji</td>
</tr>
</tbody>
</table>
**Brightness**

Choose from five settings for LCD monitor brightness. The default setting is 3. Brightness for the electronic viewfinder cannot be adjusted.

---

**Date Imprint**

Date and time of recording can be imprinted on pictures. This information can be printed even from printers that do not support printing of date and time (85).

<table>
<thead>
<tr>
<th>Off (default setting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date and time are not imprinted on pictures.</td>
</tr>
</tbody>
</table>

| Date | Date is imprinted on the bottom right corner of pictures shot while this option is in effect. |
| Date and time | Date and time are imprinted on the bottom right corner of pictures shot while this option is in effect. |

| Date counter | Time stamp shows number of days between date of recording and selected date. |

At settings other than Off, the icon for the current setting is displayed in the monitor (6).

---

**Date Imprint**

- Imprinted dates form a permanent part of image data and cannot be deleted.
- Dates imprinted at an image size setting (89) of (640 x 480) may be difficult to read. Choose (1,024 x 768) or larger when using date imprint.
- The date is recorded using the format selected in the setup menu’s Date item (18, 117).
- Dates cannot be imprinted when using the Museum and Panorama assist scene modes, (sport continuous) mode, or movie mode. In addition, dates cannot be imprinted when Continuous is set to Continuous or BSS in the shooting menu, or when Auto bracketing is enabled (141).

**Date Imprint and Print Set**

When printing from DPOF-compatible printers which support printing of shooting date and photo information, the date and information can be printed on pictures without date and time imprinted on them, using options in the Print set menu (84).
**Date Counter**

Pictures shot while this option is in effect are imprinted with the number of days remaining until, or the number of days elapsed since a specified date. Use it to track the growth of a child or count down the days until a birthday or wedding.

---

**Stored dates**

Up to three dates can be stored. To set, choose an option, press the multi selector ▶, enter a date (19, step 6), and press OK. To select a different date, choose an option and press OK.

---

**Display options**

Choose **Number of days**, **Years and days**, or **Yrs, mnths, days** and press OK.

---

Sample date counter time stamps are shown below.

**Two days remaining**

**Two days elapsed**
Vibration Reduction

Enable or disable vibration reduction for shooting still pictures. Vibration reduction effectively corrects blur, caused by slight hand movement known as camera shake, that commonly occurs when shooting with zoom applied or at slow shutter speeds.

Turn vibration reduction off when using a tripod to stabilize the camera during shooting.

**On (default setting)**

Vibration reduction is enabled when shooting still pictures and recording movies. Camera detects and factors out panning movements when reducing camera shake. When camera is panned horizontally, for example, vibration reduction reduces only vertical shake. If camera is panned vertically, vibration reduction affects only horizontal shake.

**Off**

Vibration reduction is not enabled.

When vibration reduction is enabled, the current setting is displayed in the monitor during shooting (when **Off** is selected, an icon for the current setting is not displayed in the monitor) (6).

**Notes on Vibration Reduction**

- Vibration reduction may take a few seconds to activate after the power is turned on, or the camera enters shooting mode from playback mode. Wait until the display stabilizes before shooting.
- Due to characteristics of the vibration reduction function, images displayed in the camera’s monitor immediately after shooting may appear blurry.
- Vibration reduction may be unable to completely eliminate the effects of camera shake in some situations.
- **VR** stands for vibration reduction.

**Using Electronic VR with Movies**

To reduce the effects of camera shake when recording movies other than time-lapse movies, enable **Electronic VR** (65) from the movie menu (63).
### AF Assist

Enable or disable AF-assist illumination.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Auto</strong> (default setting)</td>
<td>AF-assist illumination will be used to assist the focus operation when the subject is poorly lit. Note that for some scene modes, AF-assist illumination turns off automatically.</td>
</tr>
<tr>
<td><strong>Off</strong></td>
<td>Disable this function. The camera may be unable to focus if lighting is poor.</td>
</tr>
</tbody>
</table>

### Digital Zoom

Use this setting to control digital zoom operation.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On</strong> (default setting)</td>
<td>Rotating and holding the zoom control at T (Q), at the maximum optical zoom position, triggers digital zoom (3 24).</td>
</tr>
<tr>
<td><strong>Crop</strong></td>
<td>Limit digital zoom to the range at which image quality does not suffer.</td>
</tr>
<tr>
<td><strong>Off</strong></td>
<td>Disable digital zoom except when recording movies.</td>
</tr>
</tbody>
</table>

### Notes on Digital Zoom

- When digital zoom is in effect, **AF area mode** is set to **Center** (3 102).
- Digital zoom is not available in the following situations.
  - When the focus mode (3 34) is set to **MF** (manual focus)
  - When **Portrait**, **Night portrait** or **Fireworks show** is selected in scene mode
  - When **Multi-shot 16** is selected for **Continuous** (3 98)
  - Before movie recording begins (however, digital zoom of up to 2× can be applied while movies, other than time-lapse movies, are being recorded)
- At magnifications of 1.2× to 1.8×, **Metering** is set to **Center-weighted**, and at magnifications of 2.0× to 4.0×, **Metering** is set to **Spot**.
Sound Settings

Adjust the following sound settings.

Button sound

Turn button sound on or off. When On (default setting) is selected, a beep will sound once when operations are completed successfully, twice when the camera acquires focus on the subject, and three times when an error is detected. Start-up sound will also play when the camera is turned on.

Shutter sound

Choose shutter sound from On (default setting) or Off.

Auto Off

If no operations are performed for the selected length of time, the monitor will turn off and the camera will enter standby mode (17) to reduce the drain on the battery. The power-on lamp will blink in standby mode. If no operations are performed for about another three minutes, the camera will turn off automatically. Choose the time allowed to elapse before the camera enters standby mode. The time options are 30 s, 1 m (default setting), 5 m, and 30 m.

Notes on Auto Off

Regardless of the option selected, the monitor will remain on for three minutes when menus are displayed, a maximum of 30 minutes during slide show playback, and 30 minutes when the AC adapter is connected.
Format Memory/Format Card
Use this option to format the internal memory or a memory card.

Formatting the Internal Memory
To format the internal memory, remove the memory card from the camera.
The Format memory option appears in the setup menu.

Formatting a Memory Card
When the memory card is inserted in the camera, the Format card option appears in the setup menu.

Formatting Internal Memory and Memory Cards
- Formatting the internal memory or memory cards permanently deletes all data. Be sure to transfer important pictures to a computer before formatting.
- Do not turn the camera off, disconnect the AC adapter, or open the battery-chamber/memory card slot cover during formatting.
- The first time you insert the memory cards used in other devices into the COOLPIX P80, format them with this camera.
## Language

Choose one of 24 languages for display of camera menus and messages.

<table>
<thead>
<tr>
<th>Language</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Čeština</td>
<td>Czech</td>
</tr>
<tr>
<td>Dansk</td>
<td>Danish</td>
</tr>
<tr>
<td>Deutsch</td>
<td>German</td>
</tr>
<tr>
<td>English</td>
<td>(default setting)</td>
</tr>
<tr>
<td>Español</td>
<td>Spanish</td>
</tr>
<tr>
<td>Ελληνικά</td>
<td>Greek</td>
</tr>
<tr>
<td>Français</td>
<td>French</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Indonesian</td>
</tr>
<tr>
<td>Italiani</td>
<td>Italian</td>
</tr>
<tr>
<td>Magyar</td>
<td>Hungarian</td>
</tr>
<tr>
<td>Nederlands</td>
<td>Dutch</td>
</tr>
<tr>
<td>Norsk</td>
<td>Norwegian</td>
</tr>
<tr>
<td>Polski</td>
<td>Polish</td>
</tr>
<tr>
<td>Português</td>
<td>Portuguese</td>
</tr>
<tr>
<td>Русский</td>
<td>Russian</td>
</tr>
<tr>
<td>Suomi</td>
<td>Finnish</td>
</tr>
<tr>
<td>Svenska</td>
<td>Swedish</td>
</tr>
<tr>
<td>Türkçe</td>
<td>Turkish</td>
</tr>
<tr>
<td>中文简体</td>
<td>Simplified Chinese</td>
</tr>
<tr>
<td>中文繁體</td>
<td>Traditional Chinese</td>
</tr>
<tr>
<td>日本語</td>
<td>Japanese</td>
</tr>
<tr>
<td>한글</td>
<td>Korean</td>
</tr>
<tr>
<td>ภาษาไทย</td>
<td>Thai</td>
</tr>
<tr>
<td>عربية</td>
<td>Arabic</td>
</tr>
</tbody>
</table>

## Video Mode

Adjust settings for connection to TV.
Choose **NTSC** or **PAL**.
## Reset All

When **Reset** is selected, the camera’s settings will be restored to their default values.

### Pop-up Menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash mode (A 30)</td>
<td>Auto</td>
</tr>
<tr>
<td>Self-timer (A 33)</td>
<td>Off</td>
</tr>
<tr>
<td>Focus mode (A 34)</td>
<td>Autofocus</td>
</tr>
<tr>
<td>Exposure compensation (A 37)</td>
<td>0.0</td>
</tr>
</tbody>
</table>

### Scene Mode

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scene menu (A 38)</td>
<td>Portrait</td>
</tr>
</tbody>
</table>

### Movie Menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movie options (A 63)</td>
<td>TV movie 640</td>
</tr>
<tr>
<td>Time-lapse movie (A 65)</td>
<td>30 s</td>
</tr>
<tr>
<td>Autofocus mode (A 65)</td>
<td>Single AF</td>
</tr>
<tr>
<td>Electronic VR (A 65)</td>
<td>Off</td>
</tr>
</tbody>
</table>

### Sport Continuous Mode

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sport continuous (A 47)</td>
<td>Continuous H</td>
</tr>
<tr>
<td>Image quality (A 88)</td>
<td>Normal</td>
</tr>
<tr>
<td>Image size (A 89)</td>
<td>2048×1536</td>
</tr>
</tbody>
</table>

### Shooting Menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image quality (A 88)</td>
<td>Normal</td>
</tr>
<tr>
<td>Image size (A 89)</td>
<td>3648×2736</td>
</tr>
<tr>
<td>Optimize image (A 91)</td>
<td>Normal</td>
</tr>
<tr>
<td>Custom in Optimize image (A 92)</td>
<td>Contrast: Auto</td>
</tr>
<tr>
<td></td>
<td>Image sharpening: Auto</td>
</tr>
<tr>
<td></td>
<td>Saturation: Auto</td>
</tr>
</tbody>
</table>
### Basic Camera Setup: The Setup Menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom of Black-and-white in Optimize image (A 93)</td>
<td>Contrast: Auto Image sharpening: Auto Monochrome filter: None B&amp;W + color: off</td>
</tr>
<tr>
<td>White balance (A 94)</td>
<td>Auto</td>
</tr>
<tr>
<td>ISO sensitivity (A 96)</td>
<td>Auto</td>
</tr>
<tr>
<td>Fixed range auto (A 96)</td>
<td>ISO 64-100</td>
</tr>
<tr>
<td>Metering (A 97)</td>
<td>Matrix</td>
</tr>
<tr>
<td>Continuous (A 98)</td>
<td>Single</td>
</tr>
<tr>
<td>Intvl timer shooting (A 99)</td>
<td>30 s</td>
</tr>
<tr>
<td>Auto bracketing (A 101)</td>
<td>Off</td>
</tr>
<tr>
<td>AF area mode (A 102)</td>
<td>Auto</td>
</tr>
<tr>
<td>Autofocus mode (A 104)</td>
<td>Single AF</td>
</tr>
<tr>
<td>Flash exp. comp. (A 105)</td>
<td>0.0</td>
</tr>
<tr>
<td>Noise reduction (A 105)</td>
<td>Auto</td>
</tr>
<tr>
<td>Distortion control (A 106)</td>
<td>Off</td>
</tr>
</tbody>
</table>

### Setup Menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Menus (A 115)</td>
<td>Text</td>
</tr>
<tr>
<td>Welcome screen (A 116)</td>
<td>None</td>
</tr>
<tr>
<td>Brightness (A 120)</td>
<td>3</td>
</tr>
<tr>
<td>Date imprint (A 120)</td>
<td>Off</td>
</tr>
<tr>
<td>Vibration reduction (A 122)</td>
<td>On</td>
</tr>
<tr>
<td>AF assist (A 123)</td>
<td>Auto</td>
</tr>
<tr>
<td>Digital zoom (A 123)</td>
<td>On</td>
</tr>
<tr>
<td>Button sound (A 124)</td>
<td>On</td>
</tr>
<tr>
<td>Shutter sound (A 124)</td>
<td>On</td>
</tr>
<tr>
<td>Auto off (A 124)</td>
<td>1 m</td>
</tr>
</tbody>
</table>
Basic Camera Setup: The Setup Menu

Others

<table>
<thead>
<tr>
<th>Option</th>
<th>Default value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper size (80, 81)</td>
<td>Default</td>
</tr>
<tr>
<td>Slide show (110)</td>
<td>3 s</td>
</tr>
</tbody>
</table>

- Choosing **Reset all** also clears the current file number (132) from the memory. Numbering will continue from the lowest number available.
- To reset file numbering to “0001”, delete all pictures (111) before selecting **Reset all**.
- The following settings in the menus will remain unaffected even if **Reset all** is performed.
  - **Shooting menu**: preset white balance value measured using **Preset manual** (95)
  - **Setup menu**: **Date** (117), **Date counter** (121), **Language** (126), and **Video mode** (126)

**Ver: Firmware Version**

View the current camera firmware version.

![COOLPIX P80 Ver.X.X](image)
## Optional Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rechargeable battery</td>
<td>Rechargeable Li-ion Battery EN-EL5</td>
</tr>
<tr>
<td>Battery charger</td>
<td>Battery Charger MH-61</td>
</tr>
<tr>
<td>AC adapter</td>
<td>AC Adapter EH-62A (connects as shown)</td>
</tr>
<tr>
<td>USB cable</td>
<td>USB Cable UC-E6</td>
</tr>
<tr>
<td>A/V cable</td>
<td>Audio/Video Cable EG-CP14</td>
</tr>
<tr>
<td>Lens cap</td>
<td>Lens cap LC-CP18</td>
</tr>
</tbody>
</table>

Ensure that the power connector cord passes through the opening before closing the battery-chamber/memory card slot cover. Failure to observe this precaution could cause damage to the battery-chamber/memory card slot cover.
Approved Memory Cards

The following memory cards have been tested and approved for use in the COOLPIX P80.

All cards of the designated make and capacity can be used, regardless of speed.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SanDisk</td>
<td>128 MB, 256 MB, 512 MB, 1 GB, 2 GB(^1), 4 GB(^2)</td>
</tr>
<tr>
<td>Toshiba</td>
<td>128 MB, 256 MB, 512 MB, 1 GB, 2 GB(^1), 4 GB(^2)</td>
</tr>
<tr>
<td>Panasonic</td>
<td>128 MB, 256 MB, 512 MB, 1 GB, 2 GB(^1), 4 GB(^2)</td>
</tr>
</tbody>
</table>

\(^1\) If the memory card will be used with a card reader or similar device, check that the device supports 2 GB cards.

\(^2\) SDHC compliant. If the memory card will be used with a card reader or similar device, check that device supports SDHC.

Other cards have not been tested. For more details on the memory cards listed above, please contact the manufacturer.
Images/Sound File and Folder Names

Pictures, movies, voice memos and voice recordings are assigned file names as follows.

<table>
<thead>
<tr>
<th>Identifier (not shown on camera monitor)</th>
<th>Extension (signifies the file type)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original still pictures (voice memo attachment included), movies, voice recordings</td>
<td>DSCN</td>
</tr>
<tr>
<td>Cropped copies (voice memo attachment included)</td>
<td>RSCN</td>
</tr>
<tr>
<td>Small copies (voice memo attachment included)</td>
<td>SSCN</td>
</tr>
<tr>
<td>D-Lighting or black border copies (voice memo attachment included)</td>
<td>FSCN</td>
</tr>
<tr>
<td>Time-lapse movies</td>
<td>INTN</td>
</tr>
</tbody>
</table>

- Files are stored in folders named with a folder number followed by a five-character identifier: “P_” plus a three-digit sequence number for pictures shot using Panorama assist (e.g. “101P_001”; 44), “INTVL” for interval timer photography (e.g. “101INTVL”; 99), “SOUND” for voice recordings (e.g. “101SOUND”; 68), and “NIKON” for all other pictures (e.g. “100NIKON”). When the number of files within a folder reaches 9999, a new folder will be created. File numbers will be assigned automatically starting with “0001.”

- Files copied using Copy > Selected images or Copy sound files > Selected files are copied to the current folder, where they are assigned new file numbers in ascending order starting from the largest file number in memory. Copy > All images and Copy sound files > Copy all files copy all folders from the source medium; file names do not change but new folder numbers are assigned in ascending order, starting from the largest folder number on the destination medium (72, 113).

- A single folder can hold up to 200 pictures; if the current folder already contains 200 pictures, a new folder, named by adding one to the current folder name, will be created the next time a picture is shot. If the current folder is numbered 9999 and contains 200 pictures, or a picture is numbered 9999, no further pictures can be shot until the internal memory or memory card is formatted (125), or a new memory card is inserted.
Caring for the Camera

To ensure continued enjoyment of this Nikon product, observe the following precautions when using or storing the device:

☑ Keep dry

The device will be damaged if immersed in water or subjected to high humidity.

☑ Do not drop

The product may malfunction if subjected to strong shock or vibration.

☑ Handle the lens and all moving parts with care

Do not apply force to the lens, LCD monitor, memory card slot or battery chamber. These parts are easily damaged. Applying force to the lens cover could result in camera malfunction or damage to the lens. Should the LCD monitor break, care should be taken to avoid injury caused by broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth.

☑ Do not point the lens at strong light sources for extended periods

Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration of the CCD image sensor, producing a white blur effect in photographs.

☑ Keep away from strong magnetic fields

Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product’s internal circuitry.

☑ Avoid sudden changes in temperature

Sudden changes in temperature, such as when entering or leaving a heated building on a cold day, can cause condensation to form inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

☑ Turn the product off before removing or disconnecting the power source

Do not remove the battery while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.
The Self-timer Lamp/AF-assist Illuminator LED

The light-emitting diode (LED; ④ 4, 33, 123) used in the self-timer lamp/AF-assist illuminator conforms to the following IEC standard:

The Battery

- Check the battery level when taking the camera out, and charge the battery if necessary (④ 14). Do not continue charging once the battery is fully charged, as this will result in reduced battery performance. If possible, carry a fully-charged spare battery when taking pictures on important occasions.
- Do not use the battery at ambient temperatures below 0 °C (32 °F) or above 40 °C (104 °F). During charging, the temperature should be in the vicinity of 5 to 35 °C (41 to 95 °F). Note that the battery may become hot during use; wait for the battery to cool before charging. Failure to observe these precautions could damage the battery, impair its performance or prevent it from charging normally.
- On cold days, the capacity of batteries tends to decrease. Be sure that the battery is fully charged before heading outside to take pictures in cold weather. Keep spare batteries in a warm place and exchange as necessary. Once warmed, a cold battery may recover some of its charge.
- Dirt on the battery terminals can prevent the camera from functioning.
- When the battery is not in use, remove it from the camera or battery charger and replace the terminal cover. The camera and battery charger draw minute amounts of current even when off; if left in place, the battery could be drained to the point that it no longer functions. Turning the camera on or off while the battery is exhausted can result in reduced battery life. If the battery will not be used for an extended period, store it in a cool (15 to 25 °C / 59 to 77 °F), dry place. Recharge it at least once a year and run it flat before returning it to storage.
- Replace the battery when it no longer holds a charge. Used batteries are a valuable resource. Please recycle used batteries in accordance with local regulations.
Caring for the Camera

Cleaning

<table>
<thead>
<tr>
<th>Lens/electronic viewfinder</th>
<th>Avoid touching glass parts with your fingers. Remove dust or lint with a blower (typically a small device with a rubber bulb attached to one end that is pumped to produce a stream of air out the other end). To remove fingerprints or other stains that cannot be removed with a blower, wipe the lens with a soft cloth, using a spiral motion that starts at the center of the lens and working toward the edges. If this fails, clean the lens using a cloth lightly dampened with commercial lens cleaner.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD monitor</td>
<td>Remove dust or lint with a blower. To remove fingerprints and other stains, clean the LCD monitor with a soft, dry cloth, being careful not to apply pressure.</td>
</tr>
<tr>
<td>Body</td>
<td>Use a blower to remove dust, dirt or sand, then wipe gently with a soft, dry cloth. After using the camera at the beach or seaside, wipe off any sand or salt with a dry cloth lightly dampened with fresh water, then dry thoroughly. Note that foreign matter inside the camera could cause damage not covered by the warranty.</td>
</tr>
</tbody>
</table>

Do not use alcohol, thinner, or other volatile chemicals.

Storage

Turn the camera off when not in use. Check that the power-on lamp is off before putting the camera away. Remove the battery if the camera will not be used for an extended period. Do not store the camera with naptha or camphor moth balls, or in any of the following locations:

- Next to equipment that produces strong electromagnetic fields, such as televisions or radios
- Exposed to temperatures below –10 °C (14 °F) or above 50 °C (122 °F)
- Poorly ventilated or subject to humidities of over 60%

To prevent mold or mildew, take the camera out of storage at least once a month. Turn the camera on and release the shutter a few times before putting the camera away again.

Notes on the Monitor

- The monitor may contain a few pixels that are always lit or that do not light. This is a characteristic common to all TFT LCD displays, and does not indicate a malfunction. Images recorded using the product will not be affected.
- Images in the monitor may be difficult to see under bright lighting.
- The monitor is lit by an LED backlight. Should the monitor begin to dim or flicker, contact your Nikon-authorized service representative.

Notes on Smear

When framing bright subjects, vertical comet-like streaks that whiten toward either end may appear in the display. This phenomenon, known as “smear,” does not indicate a malfunction.

In shooting modes other than high-speed continuous or movie, smear has no effect on the images that are recorded.

When using the high-speed continuous shooting and movie modes, however, we recommend that you avoid shooting bright objects.
## Error Messages

The following table lists the error messages and other warnings displayed in the monitor, as well as the solutions for dealing with them.

<table>
<thead>
<tr>
<th>Display</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="https://i.imgur.com/12345.png" alt="" /> (blinks)</td>
<td>Clock not set.</td>
<td>Set clock.</td>
</tr>
<tr>
<td><img src="https://i.imgur.com/67890.png" alt="" /></td>
<td>Battery running low.</td>
<td>Prepare to charge or change battery.</td>
</tr>
<tr>
<td><img src="https://i.imgur.com/21098.png" alt="" /></td>
<td>Battery exhausted.</td>
<td>Charge or change battery.</td>
</tr>
<tr>
<td><img src="https://i.imgur.com/34567.png" alt="" /></td>
<td>Battery temperature high</td>
<td>Turn off camera, and allow battery to cool down before resuming use. After five seconds, this message will disappear, the monitor will turn off, and the power-on lamp will blink rapidly. After the lamp blinks for three minutes, the camera will turn off automatically, but you can also press the power switch to turn it off manually.</td>
</tr>
<tr>
<td><img src="https://i.imgur.com/89012.png" alt="" /></td>
<td>Please wait for the camera to finish recording.</td>
<td>Wait until message clears from display automatically when recording is complete.</td>
</tr>
<tr>
<td><img src="https://i.imgur.com/45678.png" alt="" /></td>
<td>Write-protect switch is in “lock” position.</td>
<td>Slide write-protect switch to “write” position.</td>
</tr>
</tbody>
</table>
| ![](https://i.imgur.com/90123.png) | Error accessing memory card. | • Use approved card.  
• Check that connectors are clean.  
• Confirm that memory card is correctly inserted. | 131, 20 |
<p>| <img src="https://i.imgur.com/23456.png" alt="" /> | Memory card has not been formatted for use in camera. | Choose Yes and press OK to format card, or turn camera off and replace card. | 21 |</p>
<table>
<thead>
<tr>
<th>Display</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Out of memory. Memory card is full.</td>
<td>• Choose lower image quality or smaller image size. • Delete pictures or sound files. • Insert new memory card. • Remove memory card and use internal memory.</td>
</tr>
<tr>
<td>!</td>
<td>Image cannot be saved. Error occurred while recording picture.</td>
<td>Format internal memory or memory card.</td>
</tr>
<tr>
<td>!</td>
<td>Image cannot be saved. Camera has run out of file numbers.</td>
<td>• Insert new memory card. • Format internal memory or memory card.</td>
</tr>
<tr>
<td>!</td>
<td>Image cannot be modified. Picture cannot be used for welcome screen.</td>
<td>Choose picture of 320 × 240 pixels or larger, or picture shot at an image size setting other than (3648×2432), (3584×2016) and (2736×2736).</td>
</tr>
<tr>
<td>!</td>
<td>Image cannot be modified. Cannot copy picture.</td>
<td>Delete pictures from destination.</td>
</tr>
<tr>
<td>!</td>
<td>Sound file cannot be saved. Camera has run out of file numbers.</td>
<td>• Insert new memory card. • Format internal memory or memory card.</td>
</tr>
<tr>
<td>!</td>
<td>Image cannot be modified. Pictures cannot be modified using the D-Lighting, crop, small picture, or black border functions.</td>
<td>• Editing functions, other than black border, may not be available for pictures of some original image sizes. • Some editing functions are not available for pictures that have already been edited once. Confirm restrictions on editing using the D-Lighting, crop, small picture, and black border functions. • Movies cannot be edited.</td>
</tr>
</tbody>
</table>

88, 89; 28, 67, 71, 111; 20; 21; 58, 59, 89; 111; 56; 56; –
## Error Messages

<table>
<thead>
<tr>
<th>Display</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>😞 Cannot record movie.</td>
<td>Time out error while recording movie.</td>
<td>Choose memory card with faster write speed.</td>
</tr>
<tr>
<td>😞 Memory contains no images.</td>
<td>• No pictures or sound file in the internal memory or memory card.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Memory card does not contain pictures or sound file.</td>
<td>To copy picture or sound file from internal memory to memory card, press <strong>MENU</strong>. The copy option screen or copy sound file screen will be displayed.</td>
</tr>
<tr>
<td>😞 No sound file.</td>
<td>File not created with COOLPIX P80.</td>
<td>View file on computer or other device.</td>
</tr>
<tr>
<td>😞 File contains no image data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>😞 This file cannot be played back.</td>
<td>• All pictures in internal memory/memory card are hidden.</td>
<td>Disable <strong>Hide image</strong> setting to view images.</td>
</tr>
<tr>
<td>😞 All images are hidden.</td>
<td>Picture is protected.</td>
<td>Disable protection.</td>
</tr>
<tr>
<td>😞 This image cannot be deleted.</td>
<td>Destination in same time zone as home.</td>
<td></td>
</tr>
<tr>
<td>😞 Travel destination is in the current time zone.</td>
<td>Mode dial is between two modes.</td>
<td>Rotate mode dial to select desired mode.</td>
</tr>
<tr>
<td>😞 Mode dial is not in the proper position.</td>
<td>The built-in flash is not raised during the <strong>Night portrait</strong> or <strong>Backlight</strong> scene modes.</td>
<td>Press <strong>（flash pop-up）</strong> button to raise the built-in flash.</td>
</tr>
<tr>
<td>😞 Press the flash pop-up button to raise the flash.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>😞 Lens error.</td>
<td>Lens error.</td>
<td>Remove lens cap if still attached, and turn camera off and then on again. If error persists, contact retailer or Nikon-authorized service representative.</td>
</tr>
<tr>
<td>😞 Lens error. (If the lens cap is attached, turn the camera off, remove the lens cap, and turn the camera on.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Technical Notes
## Error Messages

<table>
<thead>
<tr>
<th>Display</th>
<th>Problem</th>
<th>Solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>![logo] Communications error</td>
<td>USB cable disconnected during transfer or printing.</td>
<td>Turn camera off and reconnecting cable.</td>
<td>74, 79</td>
</tr>
<tr>
<td>![logo] System error</td>
<td>Error has occurred in camera’s internal circuitry.</td>
<td>Turn camera off, remove and reinsert battery, and turn camera on. If error persists, contact retailer or Nikon-authorized service representative.</td>
<td>16, 22</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: check printer status.</td>
<td>Running out of ink or printer error.</td>
<td>Check printer. After checking the ink or solving the problem, select <strong>Resume</strong> and press <strong>OK</strong> to resume printing*.</td>
<td>—</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: check paper</td>
<td>Specified size of paper is not loaded in printer.</td>
<td>Load the specified paper, select <strong>Resume</strong> and press <strong>OK</strong> to resume printing*.</td>
<td>—</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: paper jam</td>
<td>Paper has jammed in the printer.</td>
<td>Eject the jammed paper, select <strong>Resume</strong> and press <strong>OK</strong> to resume printing*.</td>
<td>—</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: out of paper</td>
<td>No paper is loaded in printer.</td>
<td>Load the specified paper, select <strong>Resume</strong> and press <strong>OK</strong> to resume printing*.</td>
<td>—</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: check ink</td>
<td>Ink error.</td>
<td>Check ink, select <strong>Resume</strong> and press <strong>OK</strong> to resume printing*.</td>
<td>—</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: out of ink</td>
<td>Ink cartridge is empty.</td>
<td>Replace ink, select <strong>Resume</strong> and press <strong>OK</strong> to resume printing*.</td>
<td>—</td>
</tr>
<tr>
<td>![logo] ![icon] Printer error: file corrupt</td>
<td>An error caused by the image file has occurred.</td>
<td>Select <strong>Cancel</strong> and press <strong>OK</strong> to cancel printing.</td>
<td>—</td>
</tr>
</tbody>
</table>

* See the documentation provided with your printer for further guidance and information.
## Troubleshooting

If the camera fails to function as expected, check the list of common problems below before consulting your retailer or Nikon-authorized service representative. Refer to the page numbers in the right-most column for more information.

### Display, Settings and Power Supply

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause/Solution</th>
<th>Page(s)</th>
</tr>
</thead>
</table>
| Monitor is blank. | - Camera is off.  
- Battery is exhausted.  
- Standby mode for saving power: press the shutter-release button halfway.  
- LCD monitor and electronic viewfinder cannot be used simultaneously. Press [ ] to alternate between displays.  
- Camera and computer are connected via USB cable.  
- Camera and TV are connected via audio/video cable.  
- Time lapse or interval timer photography in progress. | 22, 23, 26, 13, 74, 73, 65, 99 |
| LCD monitor is hard to read. | - Ambient lighting too bright: use electronic viewfinder or move to darker location.  
- Adjust monitor brightness.  
- Monitor is dirty. Clean monitor.  
- Monitor has dimmed to save power. Monitor brightens when controls are used. | 24, 120, 135, 17 |
| The electronic viewfinder is hard to read. | Adjust diopter adjustment control. | 13 |
| Display does not switch to LCD monitor (or electronic viewfinder) when [ ] button is pressed. | You cannot switch the display in the following situations:  
- While displaying setting menus for flash mode, self-timer, and focus mode  
- While displaying menu screens  
- While shooting or playing back movies  
- While recording or playing back voice memos or voice recordings  
- While shooting with Panorama assist or Intvl timer shooting  
- While connected to a printer  
- While displaying image deletion screens  
- While displaying help screens  
- While displaying the picture selection screen  
- While displaying error messages | 31, 33, 35, 47, 63, 86, 108, 62, 67, 61, 68, 70, 44, 99, 78, 28, 29, 11, 109, 136 to 139 |
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause/Solution</th>
</tr>
</thead>
</table>
| Camera turns off without warning. | • Battery is low.  
• Camera has turned off automatically to save power.  
• Battery is cold. | 22, 23, 134 |
| Date and time of recording are not correct. | • Pictures recorded before clock was set, and “Date not set” indicator blinks during shooting, will have time stamp of “00/00/0000 00:00”; movies and voice recordings will be dated “01/01/2008 00:00.”  
• Check camera clock regularly against more accurate timepieces and reset as required. | 18, 117 |
| No indicators displayed in monitor. | Shooting data and photo information may be hidden. Press DISP until shooting data or photo information will be displayed. | 12 |
| **Date imprint** not available. | Camera clock has not been set. | 18, 117 |
| Date not appearing on pictures even when **Date imprint** is enabled. | Date does not appear on movies, on pictures shot using, **Museum**, or **Panorama assist** in scene mode, when Continuous, or BSS is selected for Continuous, or options other than Off is selected for Auto bracketing in shooting menu or shooting in **sport continuous** mode. | 42, 44, 62, 98, 101, 120 |
| Camera settings reset. | Backup battery is exhausted; all settings were restored to their default values. | 118 |
| Monitor turns off, and the power-on lamp blinks rapidly. | Battery temperature is high. Turn off camera, and allow battery to cool down before resuming use. After the lamp blinks for three minutes, the camera will turn off automatically, but you can also press the power switch to turn it off manually. | 17 |

### Electronically Controlled Cameras

In extremely rare instances, unusual characters may appear in the monitor and the camera may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, remove and replace the battery, then turn the camera on again. In the event of continued malfunction, contact your retailer or Nikon-authorized service representative. Note that disconnecting the power source as described above may result in the loss of any data not recorded to internal memory or the memory card at the time the problem occurred. Data already recorded will not be affected.
### Troubleshooting

#### Shooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause/Solution</th>
</tr>
</thead>
</table>
| Camera does not shoot when shutter-release button is pressed. | - When camera is in playback mode, press \( \text{ } \) or the shutter-release button.  
- When menus are displayed, press \( \text{MENU} \).  
- Battery is exhausted.  
- Raise the built-in flash when the scene mode is \( \text{Night portrait} \) or \( \text{Backlight} \).  
- When flash indicator blinks, flash is charging. |
| Camera cannot focus. | - The intended subject is one with which autofocus does not perform well.  
- Set \( \text{AF assist} \) in the setup menu to \( \text{Auto} \).  
- Subject not in focus area when shutter-release button pressed halfway.  
- The focus mode is set to \( \text{MF} \) (manual focus).  
- Focus error. Turn camera off and then on again. |
| Pictures are blurred. | - Use flash.  
- Use vibration reduction.  
- Use \( \text{BSS} \).  
- Use tripod and self-timer. |
| Bright specks appear in pictures shot with flash. | Flash is reflecting off particles in air. Turn flash off. |
| Built-in flash does not fire. | - Flash is off.  
- Some scene modes that cannot turn on flash are selected.  
- \( \text{ } \) of focus mode is applied.  
- \( \text{ } \) (sport continuous) mode is enabled.  
- \( \text{ } \) modes other than \( \text{Time-lapse movie} \) is selected.  
- \( \text{Continuous, BSS} \), or \( \text{Multi-shot 16} \) is selected for \( \text{Continuous} \).  
- Option other than \( \text{Off} \) is selected for \( \text{Auto bracketing} \) in shooting menu. |
| Optical zoom cannot be used. | - Optical zoom cannot be used while recording movies.  
- When \( \text{Fireworks show} \) is selected in scene mode, telephoto zoom is limited. |
<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause/Solution</th>
</tr>
</thead>
</table>
| Digital zoom cannot be used. | • Digital zoom in the setup menu is set to Off.  
  • Digital zoom is not available in the following situations:  
    – When the focus mode (MF) is set to manual focus.  
    – When Portrait, Night portrait or Fireworks show is selected in scene mode.  
    – Before movie recording begins.  
    – When Multi-shot 16 is selected for Continuous. |
| Image size not available. | • Image size cannot be adjusted when Multi-shot 16 is selected for Continuous.  
  • When a high-speed sport continuous mode is selected, or when ISO sensitivity is set to 3200 or 6400.  
  [3648x2736, 3264x2448, 3648x2432, 3584x2016, or 2736x2736 cannot be selected for Image size.] |
| No sound when shutter is released. | • Off is selected for Sound settings > Shutter sound in setup menu.  
  • Continuous, BSS, or Multi-shot 16 is selected for Continuous in shooting menu.  
  • Option other than Off is selected for Auto bracketing in shooting menu.  
  • (Museum scene mode) is selected.  
  • (sport continuous) mode is enabled.  
  • The speaker is being blocked. Do not cover it. |
| AF-assist illuminator does not light. | • Off is selected for AF assist option in camera setup menu.  
  • AF-assist illuminator turns off automatically in some modes. |
| Pictures appear smeared. | Lens is dirty. Clean lens. |
| Colors are unnatural. | White balance setting is not appropriate for light source. |
| Randomly spaced bright pixels (“noise”) appear in image. | Shutter speed too slow. Noise can be reduced by:  
  • Using flash.  
  • Specifying a lower ISO sensitivity setting.  
  • Applying Noise reduction in the shooting menu to suit situations.  
  • Choosing scene mode with noise reduction. |
### Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause/Solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pictures are too dark</td>
<td>• Use the flash for shooting pictures.</td>
<td>30</td>
</tr>
<tr>
<td>(underexposed).</td>
<td>• Flash is off.</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>• Flash window is blocked.</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>• Subject is beyond flash range.</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>• Adjust exposure compensation.</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>• Raise the ISO sensitivity.</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>• Subject is backlit during shooting. Raise the built-in flash, set <strong>Backlight</strong> of the scene mode or set the flash mode to <strong>B</strong> (fill flash), and then shoot the picture.</td>
<td>30, 43</td>
</tr>
<tr>
<td>Pictures are too bright</td>
<td>Adjust exposure compensation.</td>
<td>37</td>
</tr>
<tr>
<td>(overexposed).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unexpected results when flash</td>
<td>When <strong>B</strong> or “fill flash with slow sync and red-eye reduction” of the <strong>Night portrait</strong> scene mode is applied during shooting, In-Camera Red-Eye Fix may, in very rare cases, be applied to areas not affected by red-eye. Set a flash mode other than <strong>B</strong> when in a shooting mode other than the <strong>Night portrait</strong> scene mode during shooting.</td>
<td>30, 40</td>
</tr>
<tr>
<td>set to <strong>B</strong> (auto with red-eye reduction).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camera does not shoot</td>
<td><strong>On</strong> is selected for <strong>Noise reduction</strong> in the shooting menu.</td>
<td>105</td>
</tr>
<tr>
<td>continuously.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Camera does not shoot with</td>
<td>At an <strong>ISO sensitivity</strong> setting of <strong>3200</strong> or <strong>6400</strong>, the <strong>Multi-shot 16</strong> option is not available. When shooting with the <strong>Multi-shot 16</strong> option, select options other than <strong>3200</strong> or <strong>6400</strong> for <strong>ISO sensitivity</strong> and select <strong>Multi-shot 16</strong> for <strong>Continuous</strong>.</td>
<td>96, 98</td>
</tr>
<tr>
<td><strong>Multi-shot 16</strong>.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Playback

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause/Solution</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>File cannot be played back.</td>
<td>• File was overwritten or renamed by computer or other make of camera.</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>• Time-lapse or interval timer photography in progress: pictures cannot be played back until recording is complete.</td>
<td>65, 99</td>
</tr>
<tr>
<td>Cannot zoom in on picture.</td>
<td>Playback zoom cannot be used with movies, small pictures, or pictures that have been cropped to below 320 × 240.</td>
<td>–</td>
</tr>
<tr>
<td>Problem</td>
<td>Cause/Solution</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td></td>
</tr>
</tbody>
</table>
| Cannot record or playback voice memo. | • Voice memos cannot be appended to movies.  
• Voice memos cannot be appended to pictures shot by other cameras, and voice memos recorded by other cameras cannot be played back. |
| Cannot use D-Lighting, crop, small picture, or black border options. | • These options cannot be used with movies.  
• The options other than black border cannot be used with pictures shot when $\frac{3}{2} (3,648 \times 2,432)$, $\frac{5}{3} (3,584 \times 2,016)$, or $\frac{11}{9} (2,736 \times 2,736)$ is applied in the image size setting.  
• Select picture that supports crop, D-Lighting, small picture, or black border.  
• Pictures shot with other cameras cannot be edited.  
• Other cameras may be unable to play back pictures edited with this camera. |
| Pictures not displayed on television. | • Choose correct video mode.  
• Memory card contains no pictures. Replace memory card. Remove memory card to play back pictures from internal memory. |
| Nikon Transfer does not start when camera is connected. | • Camera is off.  
• Battery is exhausted.  
• USB cable is not correctly connected.  
• Camera is not recognized by the computer.  
• Computer is not set to launch Nikon Transfer automatically.  
• If your computer is running Windows 2000 Professional, camera cannot be connected to the computer. See the help information contained in Nikon Transfer. |
| Pictures to be printed are not displayed. | Memory card contains no pictures. Replace memory card. Remove memory card to print pictures from internal memory. |
| Cannot select paper size with camera. | Paper size cannot be selected from the camera if the printer does not support the page sizes used by the camera, or the printer automatically selects the page size. Use the printer to select page size. |
### Specifications

**Nikon COOLPIX P80 Digital Camera**

<table>
<thead>
<tr>
<th>Type</th>
<th>Compact digital camera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective pixels</td>
<td>10.1 million</td>
</tr>
<tr>
<td>Image sensor</td>
<td>1/2.33-in. CCD; total pixels: approx. 10.70 million</td>
</tr>
<tr>
<td>Lens</td>
<td>18× Zoom-Nikkor lens</td>
</tr>
<tr>
<td><strong>Focal length</strong></td>
<td>4.7-84.2 mm (equivalent with 35mm [135] format picture angle: 27-486 mm)</td>
</tr>
<tr>
<td><strong>f/-number</strong></td>
<td>f/2.8-4.5</td>
</tr>
<tr>
<td><strong>Construction</strong></td>
<td>14 elements in 5 groups</td>
</tr>
<tr>
<td>Digital zoom</td>
<td>Up to 4× (equivalent with 35mm [135] format picture angle: approx. 1944 mm)</td>
</tr>
<tr>
<td>Vibration reduction</td>
<td>Image sensor shift</td>
</tr>
<tr>
<td>Autofocus (AF)</td>
<td>Contrast-detect AF, Multi area AF</td>
</tr>
<tr>
<td><strong>Focus range (from lens)</strong></td>
<td>• 40 cm (1 ft. 4 in.) to ∞ (W); 1.5 m (5 ft.) to ∞ (T)</td>
</tr>
<tr>
<td></td>
<td>• Macro close-up mode: 10 cm (4 in.) to ∞ (zoom position where ☰ glows green); 1 cm (0.4 in.) to ∞ (zoom position at △ mark)</td>
</tr>
<tr>
<td><strong>Focus-area selection</strong></td>
<td>Face priority, auto (9-area automatic selection), center, manual with 99 focus areas</td>
</tr>
<tr>
<td>AF-assist illumination</td>
<td>Class 1 LED product (IEC 60825-1 Edition 1.2-2001); max. output: 1000 μW</td>
</tr>
<tr>
<td>Electronic viewfinder</td>
<td>Color LCD viewfinder, 0.24 in. TFT LCD, approx. 230k-dot, with diopter adjustment function</td>
</tr>
<tr>
<td><strong>Frame coverage (shooting mode)</strong></td>
<td>Approx. 97 % horizontal and 97 % vertical (compared to the actual screen)</td>
</tr>
<tr>
<td><strong>Frame coverage (playback mode)</strong></td>
<td>Approx. 100 % horizontal and 100 % vertical (compared to the actual screen)</td>
</tr>
<tr>
<td>LCD monitor</td>
<td>2.7 in., approx. 230k-dot, wide viewing angle TFT LCD with anti-reflection coating and 5-level brightness adjustment</td>
</tr>
<tr>
<td><strong>Frame coverage (shooting mode)</strong></td>
<td>Approx. 97 % horizontal and 97 % vertical</td>
</tr>
<tr>
<td><strong>Frame coverage (playback mode)</strong></td>
<td>Approx. 100 % horizontal and 100 % vertical</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
</tr>
<tr>
<td><strong>Media</strong></td>
<td>• Internal memory (approx. 50 MB)</td>
</tr>
<tr>
<td></td>
<td>• SD (Secure Digital) memory cards</td>
</tr>
<tr>
<td><strong>File system</strong></td>
<td>DCF, Exif 2.2, and DPOF compliant</td>
</tr>
<tr>
<td><strong>File formats</strong></td>
<td>Compressed: JPEG-Baseline compliant</td>
</tr>
<tr>
<td></td>
<td>FINE (1:4), NORMAL (1:8), BASIC (1:16)</td>
</tr>
<tr>
<td></td>
<td>Movies: AVI</td>
</tr>
<tr>
<td></td>
<td>Sound files: WAV</td>
</tr>
</tbody>
</table>
## Specifications

| ISO sensitivity (Standard output sensitivity) | ISO 64, 100, 200, 400, 800, 1600, 2000, 3200, 6400, Auto (auto gain from ISO 64 to 800), High ISO Sensitivity auto (ISO 64 to 1600) Fixed range auto (100, 200, 400) |
| Exposure | 256-segment matrix, center-weighted, spot, spot AF area (with support for 99 focus areas) |
| Metering | Programmed auto exposure with flexible program, shutter-priority auto, aperture-priority auto, manual, exposure compensation (–2.0 to +2.0 EV in steps of 1/3 EV), auto bracketing |
| Exposure control | Range (ISO 100) |
| W: 0.1 to 17.6 EV | T: 1.3 to 17.5 EV |
| Shutter | Mechanical and charge-coupled electronic shutter |
| Speed | 1/2000-8 s, 1/4000-1/15 s (during high-speed continuous shooting) |
| Aperture | 5-blade iris diaphragm |
| Range | 10 steps of 1/3 EV |
| Self-timer | Can be selected from 10 and 2 second duration |
| Built-in flash | Range (approx.) (ISO sensitivity: Auto) |
| W: 0.5 to 8.8 m (1 ft. 8 in. to 28 ft.) | T: 0.5 to 5.6 m (1 ft. 8 in. to 18 ft.) |
| Flash control | TTL auto flash with monitor preflashes |
| Interface | USB |
| Date transfer protocol | MTP, PTP |
| Video output | Can be selected from NTSC and PAL |
| I/O terminal | Audio/video out; digital I/O (USB) |
| Supported languages | Arabic, Chinese (Simplified and Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Turkish |
| Power sources | • One Rechargeable Li-ion Battery EN-EL5 (supplied) |
| Battery life* | • AC Adapter EH-62A (available separately from Nikon) |
| Dimensions (W x H x D) | Approx. 250 shots (EN-EL5) |
| Weight | Approx. 110 x 79 x 78 mm (4.3 x 3.1 x 3.1 in.) (excluding projections) |
| Approx. 365 g (12.9 oz) (without battery and SD memory card) |
Specifications

Operating environment

| Temperature | 0 to 40 °C (32 to 104 °F) |
| Humidity | Less than 85 % (no condensation) |

* Based on Camera and Imaging Products Association (CIPA) standards for measuring the life of camera batteries. Measured at 23 °C (73 °F); zoom adjusted with each shot, flash fired with every other shot, image quality set to Normal, image size set to 3648×2736. Battery life may vary depending on shooting interval and length of time menus and images are displayed.

- Unless otherwise stated, all figures are for a camera with a fully-charged Rechargeable Li-ion Battery EN-EL5 operated at an ambient temperature of 25 °C (77 °F).

Rechargeable Li-ion Battery EN-EL5

| Type | Rechargeable lithium-ion battery |
| Rated capacity | DC 3.7 V, 1,100 mAh |
| Operating temperature | 0 to 40 °C (32 to 104 °F) |
| Dimensions (W × H × D) | Approx. 36 × 54 × 8 mm (1.4 × 2.1 × 0.3 in.) (excluding projections) |
| Weight | Approx. 30 g (1.1 oz) (excluding terminal cover) |

Battery Charger MH-61

| Rated input | AC 100-240 V, 50/60 Hz, 0.12 to 0.08 A |
| Rated capacity | 11 to 16 VA |
| Rated output | DC 4.2 V, 950 mA |
| Battery | Rechargeable Li-ion Battery EN-EL5 (supplied) |
| Charging time | Approximately 2 hours when battery is fully discharged |
| Operating temperature | 0 to 40 °C (32 to 104 °F) |
| Dimensions (W × H × D) | Approx. 67 × 26 × 67 mm (2.6 × 1.0 × 2.6 in.) (excluding projections) |
| Weight | Approx. 70 g (2.5 oz) (excluding power cable) |

Nikon will not be held liable for any errors this manual may contain. The appearance of this product and its specifications are subject to change without notice.
Supported Standards

- **DCF**: Design Rule for Camera File System is a standard widely used in the digital camera industry to ensure compatibility among different makes of camera.

- **DPOF**: Digital Print Order Format is an industry-wide standard that allows pictures to be printed from print orders stored on the memory card.

- **Exif version 2.2**: This camera supports Exif (Exchangeable Image File Format for Digital Still Cameras) version 2.2, a standard that allows information stored with photographs to be used for optimal color reproduction when images are output from Exif-compliant printers.

- **PictBridge**: A standard developed cooperatively by the digital camera and printer industries, allowing photographs to be output directly to a printer without connecting the camera to a computer.
Symbols
A Aperture-priority auto 48, 51
Aperture-priority auto 48, 51
Apply selection button 5
Audio playback mode 70
Auto mode 22–29
Delete button 5, 28
D-Lighting 57
Delete button 5, 28
Exposure compensation 37
Flash pop-up button 4, 31
Help 4, 11
Indicator 6–7
Manual 48, 52
MENU button 11
Monitor button 5, 13
Movie mode 8, 62, 63
Playback button 28
Playback zoom 55, 58
Programmed auto 48, 49
Scene mode 8, 38
Shutter-priority auto 48, 50
Tele 24
Thumbnail playback 54, 58
Vibration reduction 23, 122
Voice recording mode 68
Wait icon 27, 136
Wide 24

A
Accessories 130
AE-L 45
AF area mode 102
AF assist 123
AF-assist illuminator 4, 27, 123
Aperture-priority auto 48, 51
Audio/video cable 73
Auto bracketing 101
Auto focus (AF) lamp 26
Auto off 124
Autofocus 34
Autofocus mode 65, 104
AVI 132
AV-out connect 73

B
Backlight 43
Backlit subjects 30, 43
Battery 14
Battery charger 130
Battery level indicator 136
Battery-chamber/memory card slot cover 5
Beach/snow 40
Best shot selector 42, 98
Black Border 60
Blur 142

C
Cable connector 4, 79
Cleaning
Body 135
Lens 135
Monitor 135
Close up 42
Close-up 34, 42
Color options 106
Command dial 5
Computer 73–75
copying pictures to 73–75
Continuous 98
Copy 113
Copy 43
Crop 58

D
Date 18–19, 117, 120
printing 85
Date counter 121
Date imprint 120
Daylight saving time 117, 118
DCF 149
Delete 28, 29, 111
button 71
design rule for camera file system 149
digital print order format 84–85, 149
digital zoom 123
diopter adjustment control 13
distortion control 106
D-Lighting 57
DPOF 149
DSCN 132
Dusk/dawn 41

Electronic VR 65
Error messages 136–139
Exif version 2.2 149
Exposure compensation 37
Extension 132

File names 132
Fill flash 30
Fireworks show 43
Firmware version 129
Flash 30, 127
indicator 32
mode 30
Flash exp. comp. 105
Flash mode 106
Flash pop-up button 4, 31
Focus 6, 26, 34, 104
area 6, 26
Folder names 132
Format 21, 125
Framing 24
FSCN 132
Full-time AF 65, 104

Help 11
Hide image 112
High ISO sensitivity auto 96
High-speed continuous shooting 46, 47

Image quality 88
Image size 89
Infinity 34
Internal memory 6–7, 20, 90, 125
capacity 90
formatting 125
ISO sensitivity 96

JPEG 146
JPG 132

Landscape 39
Language 18, 126
Lens 4, 135

Macro close-up 34
Manual 48, 52
Manual focus 34, 36
Memory card 6–7, 20, 90, 131
approved 131
capacity of 90
formatting 125
Inserting and removing 20
slot 20

Menus 115
Metering 97
Microphone 4
Mode dial 4, 8
Monitor 6–7, 22, 135
brightness 120
indicators 6–7

Movie menu 63
Movie mode 62
Movie options 63
maximum movie length 64
small size 63, 64
Time-lapse movie 63
TV movie 63

Movies 62, 67
deleting 67
playback 67
recording 62

Multi connector 5
Multi selector 5, 10
Museum 42

Night landscape 41
Night portrait 40
Noise reduction 105
Index

O
Optimize image 91

P
Panorama 44–45
Panorama assist 44
Party/indoor 40
PictBridge 78–84, 149
Playback 28, 54–59
  full-frame 28, 29
  menu 108–113
  mode 9, 28, 29
  thumbnail 54
  zoom 55
Playback menu 108–113
Portrait 39
Power switch 4, 17
Power-on lamp 4, 17, 22
Preset manual (white balance) 95
Print set 84
Print size 90
Programmed auto 48, 49
Protect 111

R
Rear-curtain sync 30
Red-eye reduction 32
Reset all 127
RSCN 132

S
Scene mode 8, 38
Self-timer 33, 106
Self-timer lamp 4, 33
Setup menu 114–129
Shooting menu 86–107
Shooting Pictures for a Panorama 44
Shutter-priority auto 48, 50
Shutter-release button 4
Single AF 65, 104
Slide show 110
Small picture 59
Smear 135
Sound settings 124
Speaker 5
SSCN 132
Strap, Camera 13
Sunset 41
Support information 2

T
Tele 4, 24
Television 73
  connecting to 73
Thumbnail playback 54
Time zone 18–19, 117, 119
Transfer 75
Tripod 5

U
USB cable 74, 79

V
Vibration reduction 122
Video mode 126
Viewfinder 5, 24
Voice memo 61
  deleting 61, 71
  playing 61
  recording 61
Voice recordings
  Copying 72
  making 68
  Playing 70
Volume 67, 71

W
WAV 132
Welcome screen 114
White balance 94
Wide 4, 24

Z
Zoom 24
  indicator 6
  playback 55
Zoom control 4, 24, 34, 67, 71, 80