

Camera Control Pro Reference Manual

Overview

This section describes the structure of this manual, outlines Camera Control Pro's main functions, and gives the system requirements and installation instructions.

Using Camera Control Pro

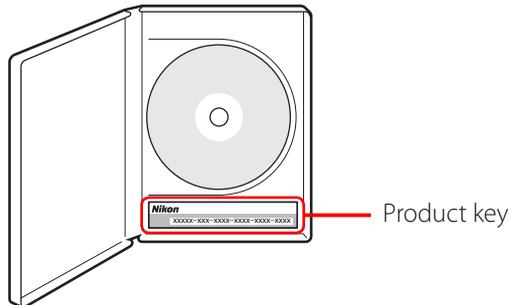
This section describes how to use Camera Control Pro.

Appendices

This section lists preferences and describes how to uninstall the software.

Important Information on the Product Key

The product key may be found on the CD-ROM case. **Do not lose this key.** It is required when installing or upgrading this software and can not be replaced if lost.



Overview

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Click a page number to view.

Introduction

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This manual has been written to help you take advantage of the many features included in Camera Control Pro. Be sure to read this manual thoroughly, and to keep it handy when using Camera Control Pro.

Conventions

This manual assumes basic knowledge of cameras and Windows or Finder operations. Refer to the documentation provided with your computer or camera for more information. Where the Windows and Macintosh versions of the program use differing commands, the Windows menu name is listed first, followed by the Macintosh menu name in square brackets. Where multiple menu items or folders are selected in sequence, the menu items are separated by a ">".

Throughout this manual, Windows XP Professional and Windows XP Home Edition are referred to as "Windows XP." Windows 2000 Professional is referred to as "Windows 2000." D1, D1X, and D1H cameras are referred to as "D1-series cameras," D2Xs, D2X, D2Hs, and D2H cameras as "D2-series cameras."

Illustrations

This manual is for use with both Windows and Macintosh. While the majority of the illustrations come from Windows XP, save where otherwise noted the operations described are the same in other operating systems. Depending on the operating system used, the dialogs and menus may differ from slightly from those shown here. Some illustrations are composites.

Printing This Manual

To print this manual, select **Print** from the **File** menu in Adobe Reader. This manual is A5 size, allowing facing pages to be printed on a single sheet of A4 paper (to print facing pages, start printing from an even-numbered page).

Installing/Uninstalling Camera Control Pro

Use an account with administrator privileges to install or uninstall Camera Control Pro under Windows XP, Windows 2000, and Mac OS X.

Introduction

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Camera Control Pro

Changes made to settings in the Camera Control Pro window only apply to photographs taken after the changes are made, not to photographs that have already been taken. Camera Control Pro can not be used to modify existing photographs.

The controls in the Camera Control Pro window vary with the type of camera connected. More information on camera settings may be found in the documentation provided with your camera.

Illustrations

Save where otherwise noted, the illustrations in this section show the dialogs displayed when the D2Xs is connected.

Camera Control Pro for D100 Cameras (Macintosh)

Before using Camera Control Pro with a D100 digital camera under Mac OS X, confirm that the camera firmware is version 2.00 or later. Users of earlier versions will need to upgrade the camera firmware before using Camera Control Pro. Contact a Nikon-authorized service representative for information on firmware upgrades.

Introduction

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Customer Support

See [Customer Support](#) for information on customer support.

Notices

- 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 has been 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).

Note

The copying or reproduction of copyrighted creative works such as books, music, paintings, wood-cut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws. Do not use the camera for the purposes of making illegal copies or to infringe copyright laws. Do not use in venues where photography or recording is prohibited.

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About This Manual

How to Use This Manual

The pages of this manual are structured as shown here:

① Overview Using Camera Control Pro Appendices

② **Camera Controls** 11/12

The Image Processing Tab

The following settings can be adjusted from the Image Processing tab:

Camera Control Pro

The D2Xs is connected.

Exposure 1 | Exposure 2 | Storage | Mechanical | Image Processing

Sharpening: Auto

Tone Comp: Auto

Color space: sRGB

Color Mode: Mode 1

Hue Adjustment: 0°

Long exposure Noise Reduction

High ISO NR: On (Normal)

AF and Shoot Shoot

③

Image Optimize D200 D70s D70 D50	Choose the type of image optimization performed. See the camera manual for details.
Sharpening	Choose how much the camera sharpens outlines. See the camera manual for details.
Tone Comp	Adjust contrast. See the camera manual for details. Selecting "Custom" or "Custom 1-3" (D2Xs only) and clicking Edit will display the "Edit Camera Curves" dialog.
Color space D2X D2Xs D200	Choose a color space. See the camera manual for details.
Color Mode D1X D1H 02-series D100 D200 D70s D70 D50	Choose a color mode. See the camera manual for details. With the D1, colors are optimized for the NTSC color space, regardless of the option chosen.
Saturation D200 D70s D70 D50	Adjust color saturation. See the camera manual for details.

④

⑤ **Return to first page** 56

① Click here to go to the beginning of each of the three chapters. The chapter you are currently viewing is displayed in a darker color.

② Page title

③ Description

④ **Blue underlined text** indicates a link to another part of this manual or the World Wide Web. Click the text to follow the link (note that a web browser and an Internet connection are required to link to the World Wide Web). To return to the previous topic, click the button in Adobe Reader.

⑤ Click here to return to the first page.

System Requirements

Windows

Before installing Camera Control Pro, be sure that your system meets the following requirements:

CPU	300 MHz Pentium or better recommended
OS	Preinstalled versions of Windows XP Home Edition or Windows XP Professional, Windows 2000 Professional
Hard-disk space	50 MB required for installation, with an additional 1 GB of free disk space available when Camera Control Pro is running
RAM	256 MB (768 MB or more recommended)
Video resolution	800 × 600 pixels or more with 16-bit color (High Color/thousands of colors). 24-bit color (True Color/millions of colors) recommended.
Interface*	USB: Only built-in USB ports supported IEEE 1394: OHCI-compliant IEEE 1394 interface board or card required [†]
Supported cameras	D1-series, D2-series, D100, D200, D70S, D70, D50
Miscellaneous	<ul style="list-style-type: none"> • CD-ROM drive required for installation • Internet connection required for Nikon Message Center

* Connect the camera directly to the computer. The camera may not function as expected when connected via a hub, extension cable, or keyboard.

† See the website below for the latest information on boards that have been tested and approved for use.

Check the support information at the website below for the latest on compatible cameras and operating systems.

Europe, Africa: www.europe-nikon.com/support

Asia, Oceania, Middle East: www.nikon-asia.com

U.S.A.: www.nikonusa.com

Additional information may be available from the Nikon representative in your area. Visit <http://nikonimaging.com/> for contact information.

System Requirements

Macintosh

Before installing Camera Control Pro, be sure that your system meets the following requirements:

CPU	PowerPC G3/G4/G5*
OS	Mac OS X version 10.3.9 or later
Hard-disk space	50 MB required for installation, with an additional 1 GB of free disk space available when Camera Control Pro is running
RAM	256 MB (768 MB or more recommended)
Video resolution	800 × 600 pixels or more with 16-bit color (High Color/thousands of colors). 24-bit color (True Color/millions of colors) recommended.
Interface[†]	USB: Only built-in USB ports supported FireWire: Only built-in FireWire ports supported
Supported cameras	D1-series, D2-series, D100, D200, D70S, D70, D50
Miscellaneous	<ul style="list-style-type: none"> • CD-ROM drive required for installation • Internet connection required for Nikon Message Center

* Operation not guaranteed on Intel-based Mac computers.

† Connect the camera directly to the computer. The camera may not function as expected when connected via a hub, extension cable, or keyboard.

Check the support information at the website below for the latest on compatible cameras and operating systems.

Europe, Africa: www.europe-nikon.com/support

Asia, Oceania, Middle East: www.nikon-asia.com

U.S.A.: www.nikonusa.com

Additional information may be available from the Nikon representative in your area.

Visit <http://nikonimaging.com/> for contact information.

Installing Camera Control Pro

Before installing Camera Control Pro:

- Confirm that the computer satisfies the [system requirements](#) for Camera Control Pro.
- Exit any other applications that may be running, including anti-virus software.

Follow the links below to view installation instructions for your operating system:

Windows

Macintosh

Existing Versions of Camera Control Pro

If an existing copy of Camera Control Pro is detected during installation, a notification will be displayed. Follow the on-screen instructions.

Installing Camera Control Pro

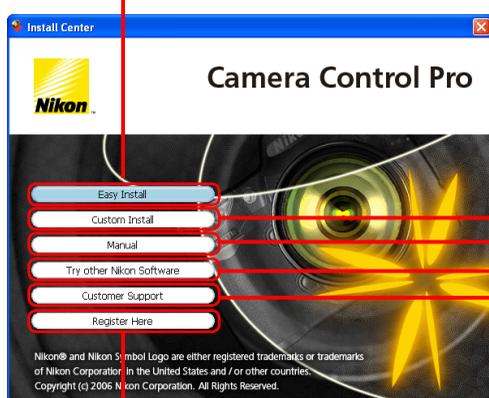
Windows 1/5

Use an account with administrator privileges when installing Camera Control Pro.

The “Install Center” window

Start the computer and insert the Camera Control Pro CD in a CD-ROM drive. The “Select Region” dialog will be displayed; select a region and click **Next**. A language-selection dialog will be displayed; select a language and click **Next** to display the “Install Center” window.

Easy Install: Install the minimum software needed to run Camera Control Pro.



Custom Install: Install selected software.

Manual: Open the “Manuals” folder, which contains software instruction manuals. Double-click **INDEX.pdf** to view a region selection screen. This button is not displayed in the trial version.

Try other Nikon Software: Download trial versions of Nikon software (Internet connection required).

Register Here: Register your Nikon product on-line (Internet connection required). This button does not appear in some regions.

Customer Support: View the ReadMe file or visit Nikon technical support websites (Internet connection required).

To uninstall Camera Control Pro, see [Uninstalling Camera Control Pro](#).

If the “Select Region” dialog Is Not Displayed

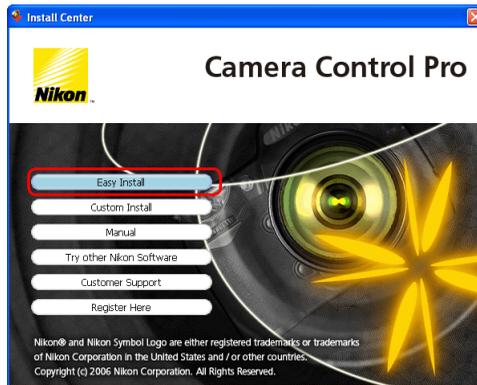
To display the “Select Region” dialog, select **My Computer** from the **Start** menu (**Windows XP**) or double-click the **My Computer** icon on the desktop (**Windows 2000**) and double-click the CD-ROM (Camera Control Pro) icon in the My Computer window.

Installing Camera Control Pro

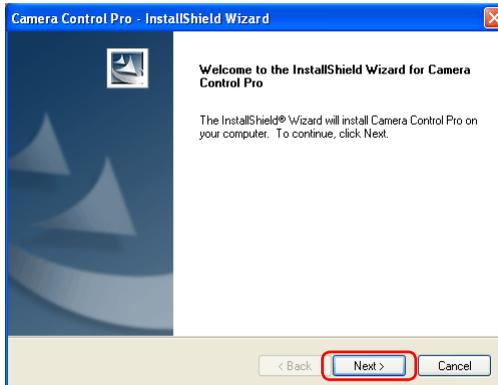
Windows 2/5

Follow the steps below to install Camera Control Pro:

1 Click **Easy Install**.



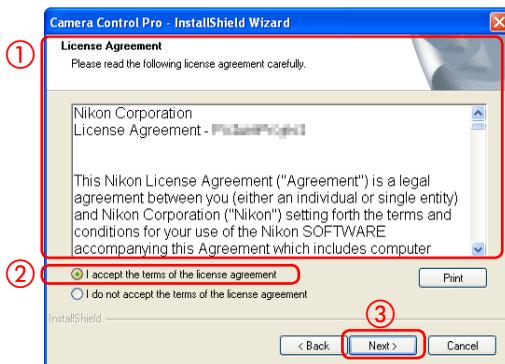
2 Click **Next**.



Installing Camera Control Pro

Windows 3/5

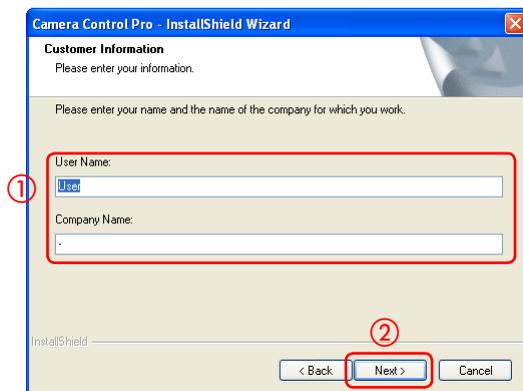
- 3** After reading the license agreement (①), select **I accept the terms of the license agreement** (②) and click **Next** (③) to proceed with installation.



- 4** Enter the product key (①) found on the CD case and click **OK** (②). The trial version does not show this dialog.



- 5** Personalize your copy of Camera Control Pro (①) and click **Next** (②).



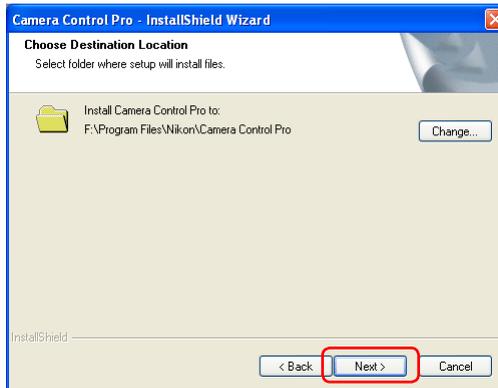
Product Key

Do not lose this key. It is required when installing or upgrading this software and can not be replaced if lost.

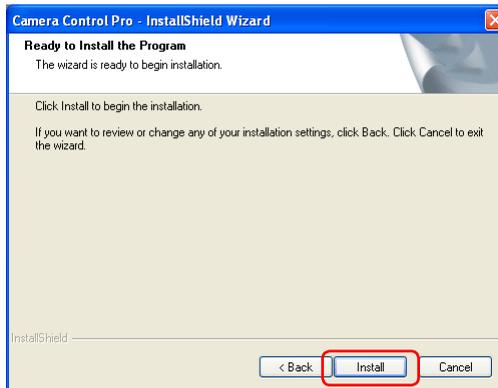
Installing Camera Control Pro

Windows 4/5

- 6** The destination folder for Camera Control Pro will be displayed under “Install Camera Control Pro to.” Click **Next** to install Camera Control Pro to this folder, or click **Change...** to select another destination.



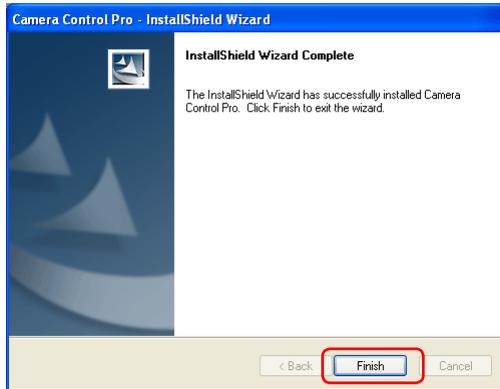
- 7** Click **Install**.



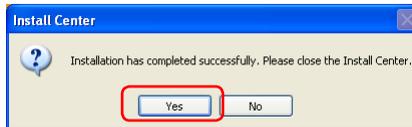
Installing Camera Control Pro

Windows 5/5

8 Click **Finish**.



9 Click **Yes** and remove the Camera Control Pro CD from the CD-ROM drive.



If a dialog is displayed directing you to restart the computer, follow the on-screen instructions.

This completes installation of Camera Control Pro.

Installing Camera Control Pro

Macintosh 1/5

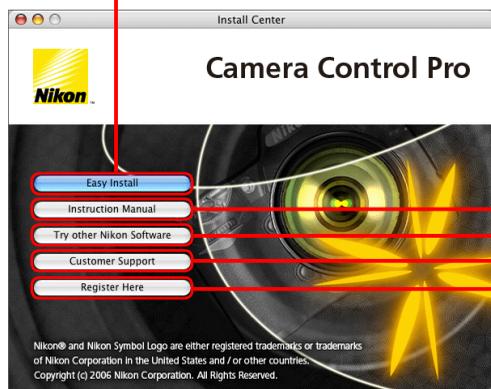
Use an account with administrator privileges when installing Camera Control Pro.

The “Install Center” window

Start the computer and insert the Camera Control Pro CD in a CD-ROM drive. Double-click the Camera Control Pro CD-ROM icon () on the desktop and then double click the

Welcome () icon. The “Select Region” dialog will be displayed; select a region and click **Next**. A language-selection dialog will be displayed; select a language and click **Next** to display the “Install Center” window.

Easy Install: Install the minimum software needed to run Camera Control Pro.



Instruction Manual: Open the “Manuals” folder, which contains software instruction manuals. Double-click **INDEX.pdf** to view a region selection screen. This button is not displayed in the trial version.

Try other Nikon Software: Download trial versions of Nikon software (Internet connection required).

Customer Support: View the ReadMe file or visit Nikon technical support websites (Internet connection required).

Register Here: Register your Nikon product on-line (Internet connection required). This button does not appear in some regions.

To uninstall Camera Control Pro, see [Uninstalling Camera Control Pro](#).

Installing Camera Control Pro

Macintosh 2/5

Follow the steps below to install Camera Control Pro:

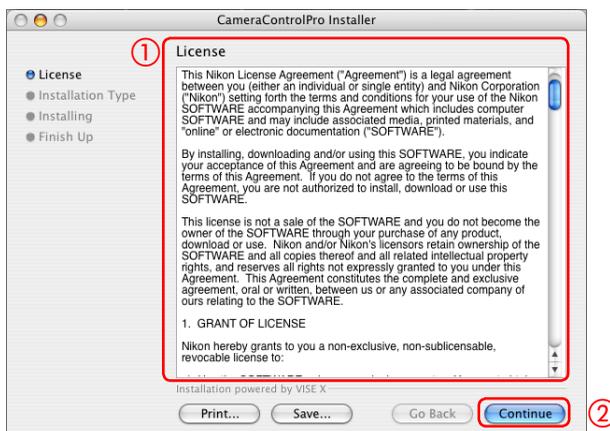
1 Click **Easy Install**.



2 Enter the administrator name and password (1) and click **OK** (2).



3 After reading the license agreement (1), click **Continue** (2).



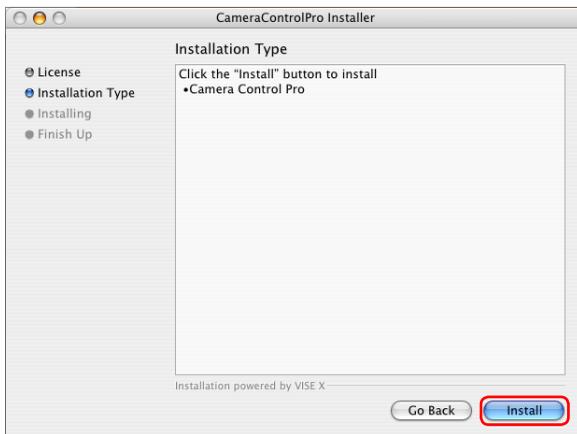
Installing Camera Control Pro

Macintosh 3/5

- 4 Click **Agree** to accept the license agreement and proceed with installation.



- 5 Click **Install**.



- 6 Enter the product key (①) found on the CD case and click **OK** (②). The trial version does not show this dialog.



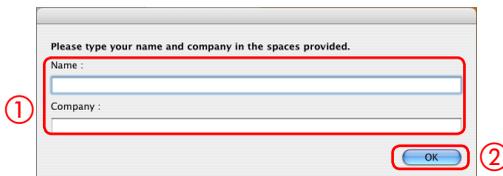
Product Key

Do not lose this key. It is required when installing or upgrading this software and can not be replaced if lost.

Installing Camera Control Pro

Macintosh 4/5

7 Personalize your copy of Camera Control Pro (1) and click **OK** (2).



A screenshot of a registration dialog box. The title bar is grey. The main area has a light grey background. At the top, it says "Please type your name and company in the spaces provided." Below this are two text input fields: "Name:" and "Company:". A red rectangle highlights both input fields, with a circled "1" to its left. At the bottom right, there is a blue "OK" button with a white border, highlighted with a red rectangle and a circled "2" to its right.

8 Click **Yes**.

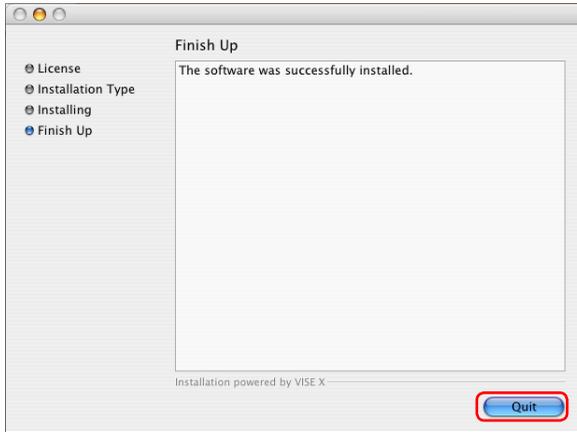


A screenshot of a confirmation dialog box. It features a red arrow pointing down from a yellow and black target icon. The text reads: "You have provided the following registration information." followed by "Name :user" and "Company :user". Below this, it asks "Is this registration information correct?". At the bottom, there are two buttons: "No" and "Yes". The "Yes" button is highlighted with a red rectangle.

Installing Camera Control Pro

Macintosh 5/5

9 Click **Quit**.



10 Click **OK** and remove the Camera Control Pro CD from the CD-ROM drive.



This completes installation of Camera Control Pro.

Starting and Exiting Camera Control Pro

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1 Turn the camera off and use the interface cable to connect the camera to the computer as described in the camera manual. If you are using a D1-series camera, choose "PC" as the operating mode. If you are using a D100, choose P, S, A, or M mode. Users of D2-series cameras can select any mode other than **M-UP** (mirror up). The D70S, D70, and D50 can be connected in any shooting mode.

2 Turn the camera on. If PictureProject Transfer or Nikon Transfer starts, click the close button.

USB

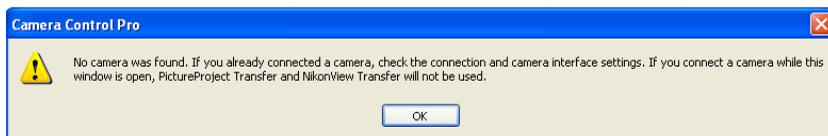
Users of the above cameras will need to ensure that the appropriate setting is chosen for **USB** option in the camera setup menu before connecting the camera to a computer running Camera Control Pro. Choose a USB setting according to your computer's operating system:

Operating system	<input type="button" value="D100"/>	<input type="button" value="D2-series"/>	<input type="button" value="D200"/>	<input type="button" value="D70S"/>	<input type="button" value="D70"/>	<input type="button" value="D50"/>
Windows XP	Choose Mass Storage* or PTP .	Choose PTP .				
Windows 2000	Choose Mass Storage.*					
Mac OS	Choose PTP .					

*Log on to an administrator account when using Camera Control Pro.

No Camera Connected

If no camera is connected when Camera Control Pro is launched, a warning will be displayed.



Click **OK** to close the warning and display the following window. Preferences can be adjusted using the options in the menu bar. For information on connecting the camera, see the camera manual.



Starting and Exiting Camera Control Pro

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3 Start Camera Control Pro.

Windows

Method 1: Double-click the Camera Control Pro shortcut on the desktop.



Method 2: Click **Start** and select **Camera Control Pro > Camera Control Pro** from **All Programs (Windows XP)** or **Programs (Windows 2000)**.



Macintosh

Method 1: Click the Camera Control Pro icon in the Dock (if available).



Method 2: Open the "Nikon Software/Camera Control Pro" folder in the "Applications" folder and double-click the **Camera Control Pro** icon.



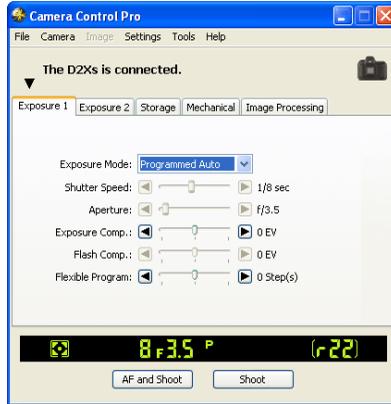
Product Key

If prompted to supply a [product key](#), enter the key found on the product packaging and click **OK**. Users of the trial version will see a dialog listing the time remaining in the thirty-day trial period; click **Trial** to use the trial version or **Buy** (if available) to visit a website where you can purchase a product key. Be sure not to lose the key, as it may be required when re-installing or upgrading the product.

Starting and Exiting Camera Control Pro

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4 The Camera Control Pro window will be displayed.



Windows



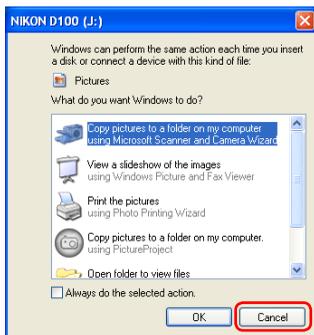
Macintosh

Starting and Exiting Camera Control Pro

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USB Connection to a Windows XP Computer

When a camera with USB interface is connected to a Windows XP computer, one of the following dialogs may be displayed.



Mass Storage



PTP

Select **Cancel** to close the dialog.

Starting and Exiting Camera Control Pro

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Exiting Camera Control Pro

Windows

Select **Exit** from the **File** menu.



Macintosh

Select **Quit Camera Control Pro** from the application menu.



Starting and Exiting Camera Control Pro

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Disconnecting the Camera

To disconnect the camera:

- **USB (PTP)/IEEE 1394 (FireWire)**: Turn the camera off and disconnect the interface cable.
- **USB (Mass Storage)**: Remove the camera from the system as described below, then turn the camera off and disconnect the USB cable.

Windows XP: Click the “Safely Remove Hardware” icon in the taskbar and select **Safely Remove USB Mass Storage Device** from the menu that appears.



Windows 2000: Click the “Unplug or Eject Hardware” icon in the taskbar and select **Stop USB Mass Storage Device** from the menu that appears.



Getting Help

To view help on Camera Control Pro, select **Camera Control Pro Help** from the **Help** menu.



Windows



Macintosh

Software Updates

Camera Control Pro is equipped with an automatic update function known as Nikon Message Center. Nikon Message Center checks for updates to a variety of Nikon digital products, including Camera Control Pro. If the computer is connected to the Internet, Nikon Message Center will automatically check for updates when Camera Control Pro starts. You can also check for updates by selecting **Check for Software Updates...** from the **Help** menu. If an update is available, an update dialog will be displayed.

Downloading Updates

An Internet connection is required to download updates. The user bears all applicable fees charged by the phone company or Internet service provider.

Dial-up Connections

When using a dial-up connection, be aware that the connection is not automatically terminated when download is complete. Be sure to terminate the connection manually.

Privacy

Information provided by the user as part of this service will not be given to third parties without the user's permission.

Using Camera Control Pro

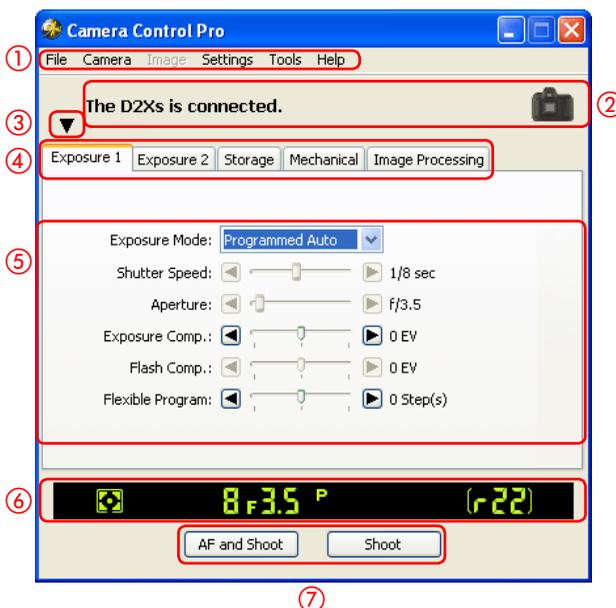
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Screen Layout

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Camera Control Pro screen layout is described below.

Windows



① **Menu bar**

② **Connection status:** Shows the status and name of any cameras connected.

③ **▼/▶:** View or hide camera controls. Camera controls can also be displayed or hidden by selecting **Show/Hide Camera Control Panels** in the **Tools** menu.

④ **Camera control tabs:** Click to view the associated camera controls.

⑤ **Camera controls**

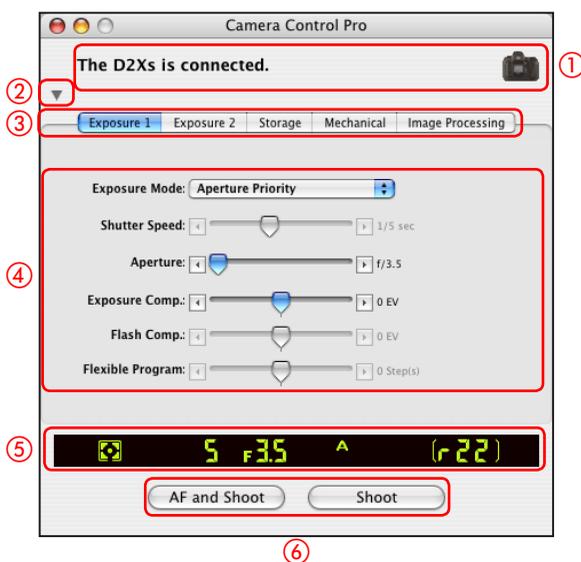
⑥ **Simulated LCD panel:** Performs the same function as the information display in the camera viewfinder.

⑦ **Shoot buttons:** Click these buttons to take pictures.

Screen Layout

2/2

Macintosh



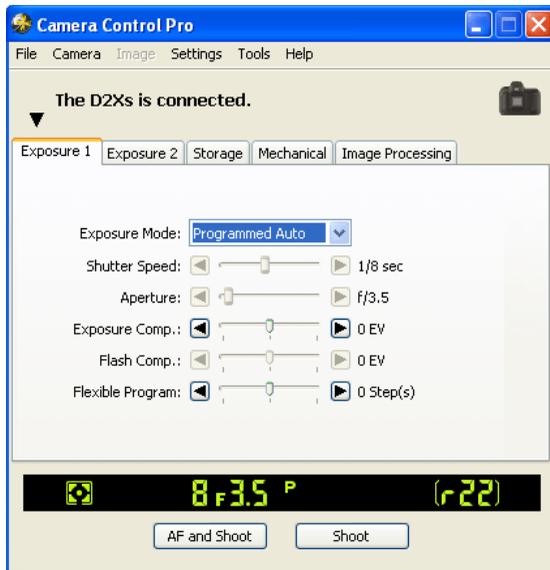
- ① **Connection status:** Shows the status and name of any cameras connected.
- ② **▼/▶:** View or hide camera controls. Camera controls can also be displayed or hidden by selecting **Show/Hide Camera Control Panels** in the **Tools** menu.
- ③ **Camera control tabs:** Click to view the associated camera controls.
- ④ **Camera controls**
- ⑤ **Simulated LCD panel:** Performs the same function as the information display in the camera viewfinder.
- ⑥ **Shoot buttons:** Click these buttons to take pictures.

Capturing Photographs to Disk

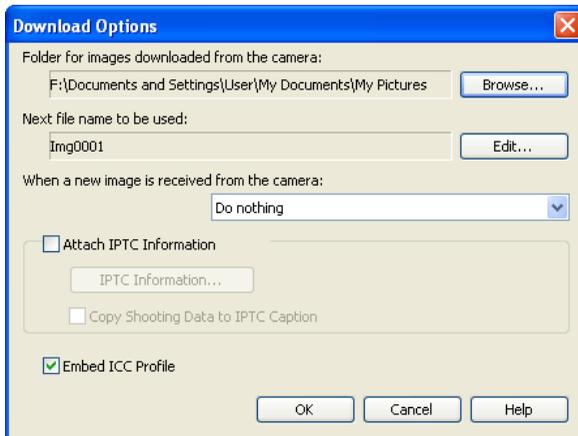
1/5

If Camera Control Pro is running when a D2-series, D200, D100, D70S, D70, or D50 camera is connected, or a D1-series camera is connected with the mode dial set to PC, pictures taken with the camera will be stored on your computer hard disk, not the camera memory card.

1 Start Camera Control Pro.



2 Select **Download Options...** in the **Tools** menu to display download options.



Capturing Photographs to Disk

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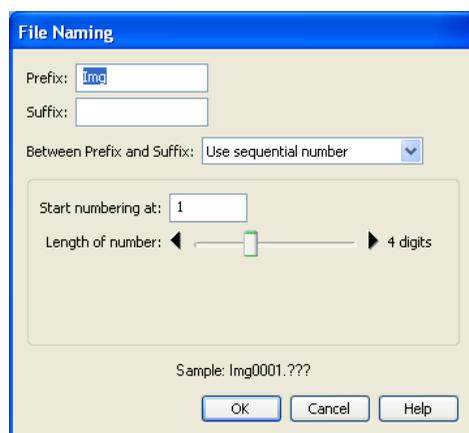
3 Adjust capture options:

Folder for images downloaded from the camera

Select the folder to which photographs will be downloaded as they are taken.

Next file name to be used

Shows how images download to the computer will be named. To change how files are named, click **Edit...** The dialog shown at below will be displayed. Using the sample file name as a guide, enter a prefix and suffix and choose the starting number and number of digits for automatic file numbering. You can also use the shooting date and time in the file name.



[Step 3 continues on the next page](#)

File Naming Conventions

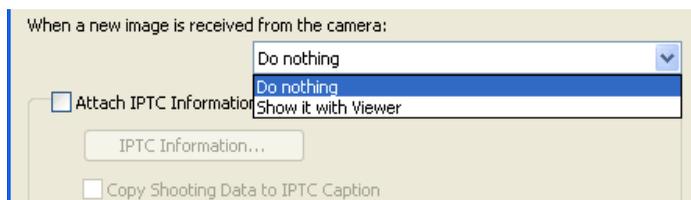
Windows: File names may not contain quotes or any of the following characters: "\ " / " : " * " ? " < " > " and "|". Periods (".") may not appear at the beginning or the end of file names.

Macintosh: The maximum length for Macintosh file names is thirty-one characters. Colons (":") are not allowed.

Capturing Photographs to Disk

3/5

When a new image is received from camera



Choose the application that will be used to display captured photographs after they are saved to disk.

- **Do nothing:** Photographs are not displayed after being saved to the computer hard disk.
- **Show it with viewer:** Photographs are displayed in the [viewer window](#).
- **Send it to Capture NX watched folder** (available only if Capture NX is installed): Photographs are saved in the “watched” folder selected in Capture NX (available separately; see the Capture NX manual for details). Capture NX will automatically process the pictures according to the batch settings in Capture NX, approximating the “Live Batch” option in Nikon Capture Camera Control.
- **Import it into PictureProject** (available only if PictureProject is installed): PictureProject starts automatically and displays the captured images. See the PictureProject manual for details.

Attach IPTC Information

Check this option to add IPTC information to captured images and enable the **Copy Shooting Data to IPTC Caption** option.

[Step 3 continues on the next page](#)

Image Authentication D2Xs

The **Attach IPTC Information** and **Embed ICC Profile** options do not apply to photographs taken with Image Authentication on. Image authentication information is not embedded in TIFF photographs when capturing images using the Camera Control Pro.

Capturing Photographs to Disk

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IPTC Information...

Clicking this button displays a dialog where you can select the IPTC information, including keywords and captions, that will be added to images as they are captured.

Copy Shooting Data to IPTC Caption

Check this option to copy shooting data to the caption field of images as they are captured.

Embed ICC Profile

Select this option to embed an ICC profile according to the camera Color Space settings. The ICC profile is embedded in JPEG and TIFF images as they are captured.

After adjusting the above options, click **OK** to exit the dialog and apply settings to subsequent photographs.

- 4** Choose whether to embed information on picture orientation in captured images (note that these options are not available when **On** or **Automatic** is selected for the auto image rotation option in the camera setup menu). Select an option once to enable it, again to disable it.

Rotate all downloaded images by 90 degrees CCW

If this option is checked, pictures will be marked as being rotated 90° counterclockwise as they are saved.

Rotate all downloaded images by 90 degrees CW

If this option is checked, pictures will be marked as being rotated 90° clockwise as they are saved.

Auto Image Rotation D2-series D200 D70S D70 D50

If **On** or **Automatic** (the default setting) is selected for the auto image rotation option in the camera setup menu, D2-series, D200, D70S, D70, and D50 cameras will detect camera orientation and automatically embed this information in photographs (note that in continuous mode, the orientation for the first image in each burst applies to all images in the series, even if camera orientation is changed during shooting). If **Off** is selected, camera orientation will not be recorded. Information on picture orientation can be added during download as described in Step 4.

Image Authentication D2Xs

The “Rotate all downloaded images...” options do not apply to photographs taken with Image Authentication on. Image authentication information is not embedded in TIFF photographs when capturing images using the Camera Control Pro.

Capturing Photographs to Disk

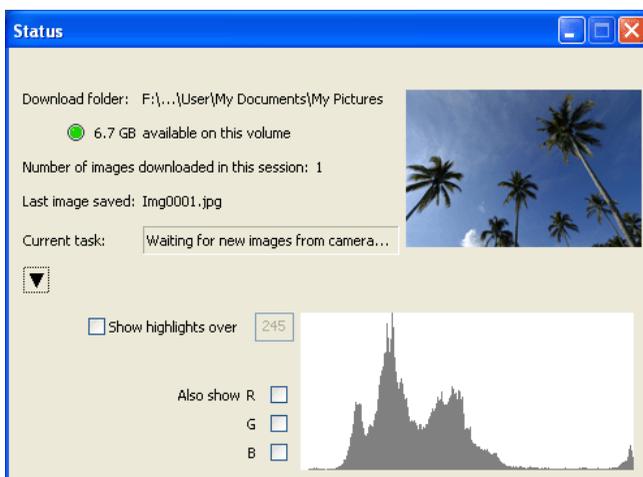
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- 5 Take pictures using the camera shutter-release button or the **AF and Shoot** or **Shoot** buttons in the Camera Control Pro window. The Status dialog shown below will be displayed.



triangle

To display a histogram of the current image, click the triangle at the bottom of the Status dialog.



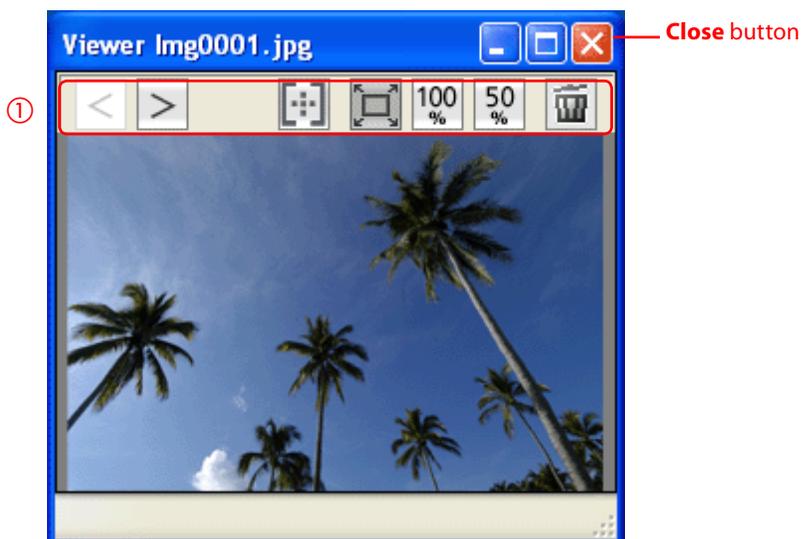
If the **Show highlights over** option is checked, any areas of the preview image with a brightness over the value entered in the neighboring text box will be indicated by a flashing border. To display histograms for the red (**R**), green (**G**), and blue (**B**) channels, put a check in the corresponding box.

- 6 Click **Close** to close the Status dialog.

Viewing Captured Photographs

1/2

If **Show it with Viewer** is selected for [When a new image is received from camera](#) in the ["Download Options" dialog](#), pictures will automatically be displayed in the "Viewer" window after capture. The "Viewer" window can also be started by selecting **Show Viewer** from the **Tools** menu. The most recent image in the folder selected for **Folder for images downloaded from the camera** in the "Download Options" dialog will be displayed.



To close the "Viewer" window, click **Close**.

Viewing Captured Photographs

2/2

The “Viewer” window contains the following buttons ①:

Button	Name	Function
	Previous image	Go back one image.
	Next image	Display next image
	Show focus area	Display focus area used when taking picture. Focus area is displayed in red.
	Fit to screen	Fit image to viewing area (maximum zoom ratio is 100%).
	100%	View image at 100%.
	50%	View image at 50%.
	Delete	Delete current image.

Show Focus Area

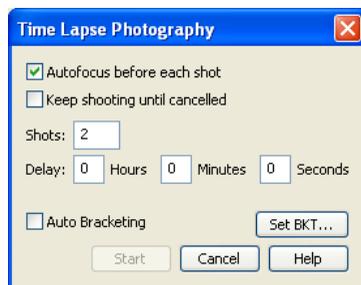
Focus area display is only available with photographs taken with Nikon digital SLR cameras. It will not be displayed in photographs taken with a non-CPU lens, manual focus, or when focus areas not displayed in the viewfinder.

Time Lapse Photography

1/4

Using Camera Control Pro, you can take a series of photographs automatically at a time interval you select.

- 1 Select **Time Lapse Photography...** from the Camera menu. The Time Lapse Photography dialog will be displayed.



Time Lapse Photography

2 Before shooting starts, adjust the following settings:

Autofocus before each shot

If this option is checked, the camera will perform an autofocus operation before each shot. If the selected focus mode is AF-A (D50 only) or single-servo AF, an autofocus operation will be performed even when the check box is off.

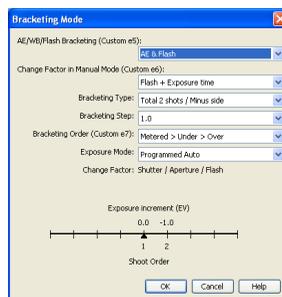
Keep shooting until cancelled

If this option is checked, the camera will continue to take photographs until you click **Stop Shooting** in the Time Lapse Photography dialog.

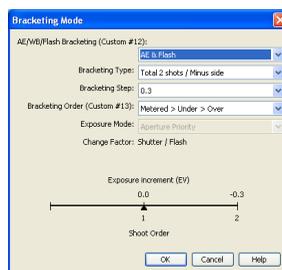
Auto bracketing D2-series D200 D70S D70 D50

Select this option to perform exposure, flash, or white balance bracketing during shooting. To change bracketing options, click **Set BKT...** The dialog shown at right will be displayed.

AE/WB/Flash Bracketing	Choose the type of bracketing performed.
Change Factor when Exposure Mode is set to Manual D2-series D200	Choose how bracketing is performed in manual exposure mode.
Bracketing Type/ Bracketing Step/ Bracketing Order/ Exposure Mode	Choose the bracketing program, exposure or white balance increment, bracketing order, and exposure mode. Bracketing type and bracketing order are not available with the D50.



D2 series/D200



D70S/D70/D50

Time Lapse Photography

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- 3 Use the **Shots** box to choose a number of shots from 2 to 9,999. This option is not available when **Keep shooting until cancelled** is selected.
- 4 The delay between shots can be set to any value between 00:00:01 (one second) and 99:59:59 (ninety-nine hours, fifty-nine minutes, and fifty-nine seconds).
- 5 Click **Start**. If **Send it to Capture NX watched folder** is selected for [When a new image is received from camera](#) in the [“Download Options” dialog](#), photographs will be saved to the “watched” folder selected in Capture NX (available separately; see the Capture NX manual for details). Capture NX will automatically process the pictures according to the batch settings in Capture NX, approximating the “Live Batch” option in Nikon Capture Camera Control.

Time Interval Settings

If the delay is shorter than the time required to record each photograph, the actual interval between photographs will be longer than that specified in the Time Lapse Photography dialog.

Auto Off (D1-series)

When the camera is operated on battery power and [for 15 minutes](#) has been selected for “While Camera Control Pro is running, keep camera awake” in the General tab of the Preferences dialog, choose a delay of fifteen minutes or less. When taking photographs at longer intervals, use an AC adapter (available separately) to power the camera.

During Time-Lapse Photography

The camera can not be operated during time-lapse photography. No other operations can be performed until the Time Lapse Photography dialog is closed.

Time Lapse Photography

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- 6 Follow the progress of time lapse photography in the progress dialog. Click **Stop Shooting** to end time lapse photography at any time. If a number of shots was specified in the “Time Lapse Photography” dialog, shooting will end when the specified number of shots has been taken.



- 7 Once the specified number of shots has been taken, the **Stop Shooting** button will change to **Shooting Complete**. Click **Shooting Complete** to exit the “Time Lapse Photography” dialog.

Error Logs

If an error occurs during shooting, an error log will be displayed; click **OK** to close the log and return to the Camera Control Pro window.

The Time Lapse Photography Dialog

If you make a mistake in entering settings in the Time Lapse Photography dialog, a warning will be displayed. Return to the Time Lapse Photography dialog and adjust settings as directed.

Hard Disk Full

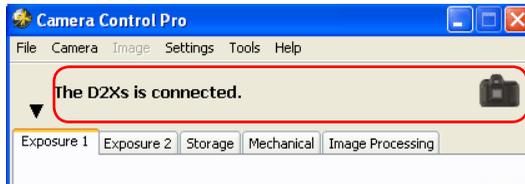
A warning will appear when space is no longer available on the destination disk for photographs taken using time lapse photography. Use the information in the warning to reduce the number of photographs or change the destination drive.

The Camera Control Pro Window

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The Camera Control Pro window shows current camera settings, which may be viewed by clicking the five page selection tabs. Camera settings can be altered using the controls in each tab as in "[Camera Controls](#)." The other settings in this window are described below.

Connection Status



Connection status

This area shows the following information about the camera currently connected:

Camera name

Camera orientation

If **On** or **Automatic** (the default setting) is selected for the auto image rotation option in the camera setup menu, camera orientation will be indicated by an icon as shown below. No icon will be displayed if **Off** is selected.



Horizontal



Rotated 90° clockwise



Rotated 90° counterclockwise

The Camera Control Pro Window

2/4

The ▼ / ▶ Button

Click this button to view or hide camera controls.



Simulated LCD Panel

This panel shows the information displayed in the camera's viewfinder, with the exception of camera errors. Clicking on an indicator in the panel opens the Camera Control Pro window to the tab that controls the selected option, where adjustments can be made.



When a D2-series, D200, D70S, D70, or D50 camera is connected, the amount of memory remaining in the camera memory buffer is displayed at the right edge of the simulated LCD panel. This information is updated at regular intervals, but temporary discrepancies may exist between the display and the actual amount of memory remaining in the buffer.

The Camera Control Pro Window

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Shoot Buttons

Click either of these buttons to take a photograph at current settings. If a D2-series, D200, D70S, D70, or D50 camera is connected, photos can be taken in continuous shooting mode; in this case, the **AF and Shoot** and **Shoot** buttons will instead be labeled **AF and Start** and **Start**. Continuous shooting with D1-series and D100 cameras can only be performed with shutter-release button on the camera body; the shooting buttons in the “Camera Control Pro” dialog can only be used to take pictures one at a time.



AF and Shoot/ AF and Start	When this button is clicked, the camera will perform an autofocus operation and then release the shutter to take a photograph.
Shoot/Start	Click this button to take a photograph. If the selected focus mode is AF-A (D50 only) or single-servo AF, an autofocus operation will be performed before the shutter is released.

The Function Dial D100

The D100 can only be used to take photographs when the function dial is set to P, S, A, or M. At other settings, the shoot buttons in the “Camera Control Pro” dialog will be disabled and the simulated LCD panel will not be displayed.

The Camera Control Pro Window

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Camera Settings That Can Not Be Adjusted from Camera Control Pro

The following operations can only be performed using the controls on the camera body:

	Operation	Camera
Status not displayed	Burst photography (continuous shooting mode)	D1-series D100
	Continuous servo autofocus	All supported models
	Pressing the shutter-release button halfway to check focus	All supported models
	Autofocus-only operation (use AF and Shoot to perform autofocus)	All supported models
	Manual aperture adjustment using the lens aperture ring	D1-series D2-series D200
	Reactivating the camera after it has entered sleep mode	D1-series
	Depth-of-field preview	All supported models
	Auto bracketing	D1-series D100
	Compression options for NEF (RAW) images	D100
	Operation assigned to FUNC. button with Custom Setting f4	D2-series D200
Status displayed	Remote (D70S, D70, and D50 only) and self-timer mode selection	D2-series D200 D70S D70 D50
	Focus mode selection using camera focus-mode selector	All supported models
	Metering	D1-series D100
	Exposure mode (can be adjusted if Enable controls on camera body is selected when D70S, D70, or D50 is connected)	D100 D70S D70 D50
	Shooting mode	D100
	Shutter-speed lock	D1-series D2-series
	Aperture lock	D1-series D2-series
	Autoexposure lock	All supported models
	Speedlight flash-level compensation	D1-series D2-series
	M-up (mirror up) mode selection	D2-series D200
Selection of second center focus area group (group dynamic-AF)	D2-series D200	

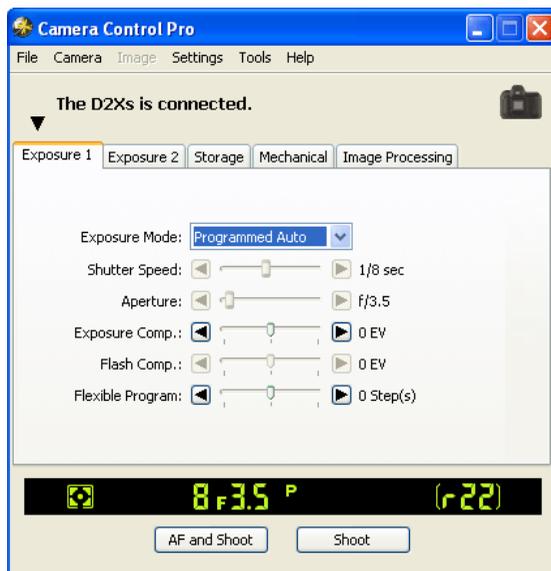
Camera Controls

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Camera controls are described below using the D2Xs as an example:

The Exposure 1 Tab

The following settings can be adjusted from the Exposure 1 tab:



Exposure Mode	<p>This menu can be used to set the exposure mode for D2- and D1-series and D200 cameras. If a D100 is connected, or if Enable controls on the camera body is checked when a D70S, D70, or D50 is connected, it will show the current exposure mode but the mode itself must be selected using the camera function dial. See the camera manual for details.</p>
Shutter Speed	<p>Shutter speed can only be adjusted in Manual and Speed Priority modes, when it can be set to values between the maximum and minimum values supported by the camera. Use high shutter speeds to freeze motion, low shutter speeds to suggest motion by blurring moving objects.</p>
Aperture	<p>Aperture can only be adjusted in Manual and Aperture Priority modes, when it can be set to values between maximum and minimum aperture (small apertures have high f-numbers, wide apertures low f-numbers; the actual apertures available depend on the lens used). Aperture can not be controlled from Camera Control Pro when Custom Setting 22 has been set to allow aperture to be adjusted manually using the lens aperture ring (D1-series only).</p>

Camera Controls

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The Exposure 1 Tab

Exposure Comp.	Exposure compensation is useful when shooting subjects containing sharp lighting contrasts, or on other occasions when you want to modify the exposure value determined by the camera. Exposure compensation is available in all exposure modes.
Flash Comp. <input type="button" value="D100"/> <input type="button" value="D200"/> <input type="button" value="D70S"/> <input type="button" value="D70"/> <input type="button" value="D50"/>	This option is used to adjust the level of the camera's built-in Speedlight.
Flexible Program	Flexible program can only be used in Program Mode, when it allows you to choose from predetermined combinations of shutter speed and aperture appropriate to current lighting conditions.

The Function Dial

The D100 can only be used to take photographs when the function dial is set to **P**, **S**, **A**, or **M**. At other settings, the controls in the Exposure 1 tab will be disabled.

Bulb

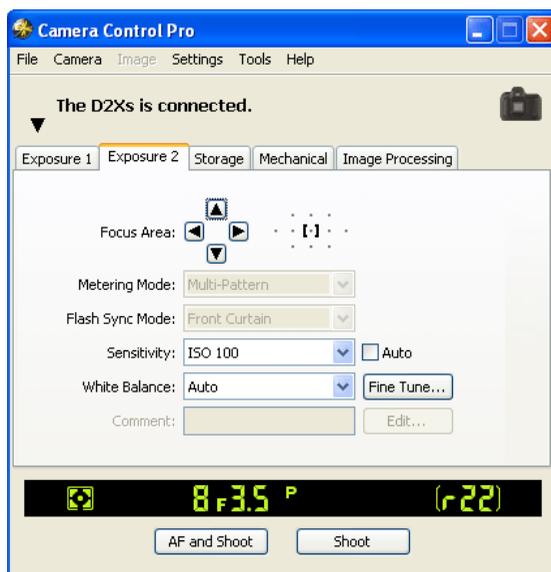
At a shutter speed of Bulb, the shutter remains open while the shutter release button is held down. Use the camera shutter-release button to take photos at this setting. Clicking either of the shoot buttons will display an error message.

Camera Controls

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The Exposure 2 Tab

The following settings can be adjusted from the Exposure 2 tab.



Focus Area	The focus area can be selected using the arrow buttons; see the camera manual for details. For information on AF-area mode and focus mode, see “The Mechanical Tab.”
Metering Mode	The metering mode can be selected from this menu (D2 series, D200, D70S, D70, and D50 only). Metering mode defaults to the option selected with the camera. If a D1-series or D100 camera is connected, or if Enable controls on the camera body is checked when a D2-series or D200 camera is connected, the current metering mode will be shown, but changes can only be made using camera controls. See the camera manual for details.
Flash Sync Mode	This option controls the camera flash sync mode. See the camera manual for details.

Camera Controls

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The Exposure 2 Tab

Sensitivity

Sensitivity (ISO equivalency) can be raised when taking photographs in low light conditions. See the user's manual provided with your camera for details.

Auto

 D2-series
 D100
 D200
 D70S
 D70
 D50

When this option is checked, the camera will adjust sensitivity (ISO equivalency) automatically (ISO auto).

White Balance

White balance is used to ensure that colors which appear white when viewed directly are white in the final photograph. It can also be used to produce an intentionally unbalanced rendering of a scene. See the camera manual for details.

Fine Tune.../Set Temp...

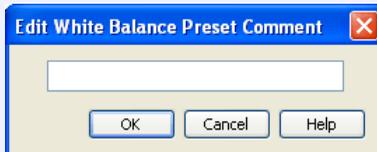
 D1-series
 D2-series
 D100
 D200
 D70S
 D70

Click **Fine Tune...** to make fine adjustments to white balance. If **Choose color temp.** is selected (D2 series and D200 only), this button will be labeled **Set temp...**. Click this button to choose a color temperature. Fine tuning is not available with preset white balance.

Comment

 D2-series
 D200

This field lists the comments for all white balance presets. Clicking **Edit...** when **Preset** is selected for white balance displays the dialog shown at right, where the comments for each of the white balance presets can be edited.



Click **OK** to copy the comments to the camera. Comments can be up to thirty-six characters long and contain letters, numbers, quotes, apostrophes, spaces, and any of the following characters: ", " ! " ? " # " \$ " % " & " (") " ["] " { " } " * " + " - " / " . " : " < " = " > " _ " and "@".

Camera Controls

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The Storage Tab

The following settings can be adjusted from the Storage tab:



Data Format	The following data formats are available: RAW (12-bit) + JPEG (8-bit) (D2 series/D200/D70S/D70/D50 only), RAW (12-bit) , TIFF-RGB (8-bit) (D1 series/D2 series/D100 only), TIFF-YCbCr (8-bit) (D1 series only), and JPEG (8-bit) . This setting determines pixel bit depth and file size.
JPEG Quality	When data format is set to JPEG (8-bit) , you can choose image quality from Fine , Normal , and Basic . When RAW (12-bit) + JPEG (8-bit) is selected with the D2 series and D200, image quality can be selected from Fine , Normal , and Basic . When RAW (12-bit) + JPEG (8-bit) is selected with the D70S, D70, or D50, image quality is fixed at Basic .
JPEG Compression <input type="button" value="D2X"/> <input type="button" value="D2Xs"/> <input type="button" value="D2Hs"/> <input type="button" value="D200"/>	Choose from Fixed size and Optimal quality . See the camera manual for details.

Camera Controls

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The Storage Tab

Color

Choose from **Color** and **Black & White**. **Black & White** is not available when **RAW** is selected for **Data Format**.

Image Size

Choose image size. See the camera manual for details.

RAW Compression

Check this option to compress NEF (RAW) images taken at a data format setting of **RAW (12-bit) + JPEG (8-bit)** (D2 series and D200 only) or **RAW (12-bit)**.

High-speed crop

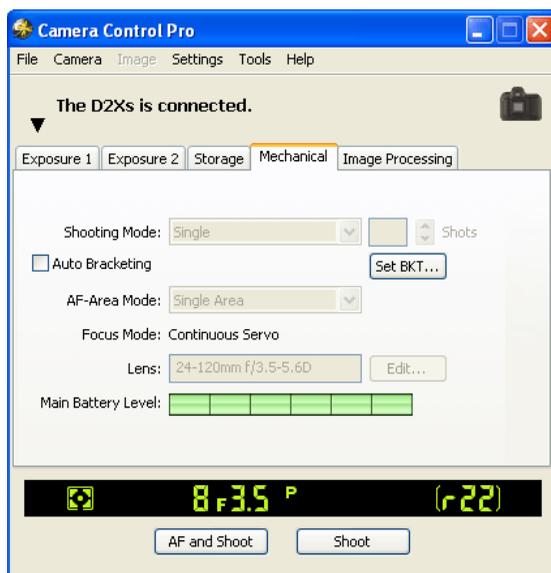
Select this option to enable high-speed crop. See the camera manual for details.

Camera Controls

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The Mechanical Tab

The following settings can be adjusted from the Mechanical tab:



Shooting Mode

Sets the shooting mode for D1-series cameras connected in PC mode to **Single** or **Continuous**. Changes to this setting also apply to Custom Setting 30. The shooting mode for the D70S, D70, and D50 can be selected from **Single** and **Continuous**. Unless [Enable controls on the camera body](#) is checked in the connection status area, the shooting mode for D2-series and D200 cameras can be selected from **Single**, **Continuous low speed**, and **Continuous high speed**. If **Continuous** is selected for the D70S, D70, or D50 or if **Continuous low speed** or **Continuous high speed** is selected for a D2-series or D200 camera, the **AF and Shoot** and **Shoot** buttons will instead be labeled **AF and Start** and **Start**. If [Enable controls on the camera body](#) is checked or a D100 camera is connected, the current shooting mode will be shown, but changes can only be made using camera controls. See the camera manual for details.

Maximum Shots

Use the arrows to choose the maximum number of shots that can be taken in a single burst in continuous mode, or enter a value directly in the text box. The maximum permitted value varies with the current image-quality setting; the value chosen should not, however, exceed the capacity of the camera memory buffer as shown at the right edge of the LCD display. Values larger than the capacity of the camera memory buffer will be shown in red. This setting only applies when the camera is connected, and differs from the maximum selected in the Custom Settings menu.

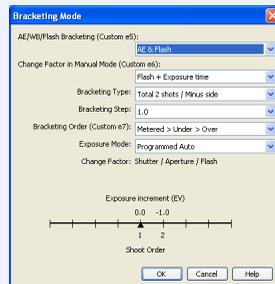
Camera Controls

The Mechanical Tab

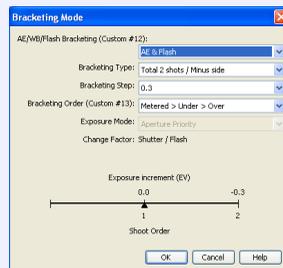
Select this option to perform exposure, flash, or white balance bracketing during shooting. To change bracketing options, click **Set BKT**. The dialog shown at right will be displayed.

- **AE/WB/Flash Bracketing:** Choose the type of bracketing performed.
- **Change Factor when Exposure Mode is set to Manual** (D2 series/D200 only): Choose how bracketing is performed in manual exposure mode.
- **Bracketing Type/Bracketing Step/Bracketing Order/Exposure Mode:** Choose the bracketing program, exposure or white balance increment, bracketing order, and exposure mode. Bracketing type and bracketing order are not available with the D50.

Auto Bracketing



D2 series / D200



D70S/D70 / D50

AF-Area Mode

Choose the AF-area mode. If [Enable controls on the camera body](#) is checked (D2 series/D200 only), the current AF-area mode will be shown, but changes can only be made using camera controls. See the camera manual for details.

Focus Mode

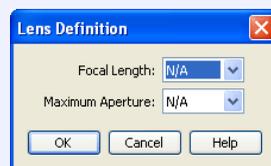
The current focus mode setting is displayed. See the camera manual for details. This setting can not be changed from Camera Control Pro.

Camera Controls

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The Mechanical Tab

Lens	Displays the focal length and maximum aperture of the lens currently attached to the camera. Depending on the lens type, some information may not be displayed. If the lens focal length or maximum aperture have been specified manually, an asterisk will appear next to these values.
Edit... D2-series D200	This button is only available when a non-CPU lens is mounted on the camera. Clicking Edit... displays the dialog shown at right, where the lens focal length and maximum aperture can be entered. Click OK to copy the values to the camera.
Main Battery Level	Displays the level of the main camera battery. Green indicates that the battery has enough charge for continued operation. Yellow indicates that battery level is low; ready a fully charged spare battery pack. Red indicates that the battery is exhausted, and that no further photographs can be taken until the battery pack has been replaced. You may not be able to control the camera from Camera Control Pro when the battery is exhausted. Replace with a fully charged spare battery pack or use an AC adapter (available separately).
Clock Battery Level D1-series	Displays the level of the camera clock battery. Should this display turn yellow or red, have the clock battery replaced by an authorized Nikon service representative (a fee is charged for this service).



Self-Timer and Remote Modes

When a D2-series, D200, D70S, D70, D50, or D100 camera is set to self-timer mode, or when the D70S, D70 or D50 is set to delayed remote or quick-response remote mode, the Mechanical tab will show a shooting mode of **Single**, and any photographs taken with the Camera Control Pro shoot buttons will be taken in single-frame mode with no shutter-release delay. To take pictures in self-timer or remote mode, use the shutter-release button on the camera.

Camera Controls

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Continuous Mode D2-series D200 D70S D70 D50

When a D2-series, D200, D70S, D70, or D50 camera is connected, the amount of memory remaining in the camera memory buffer is displayed at the right edge of the simulated LCD panel. This information is updated at regular intervals, but temporary discrepancies may exist between the display and the actual amount of memory remaining in the buffer.

Non-CPU Lenses

The following restrictions apply to Camera Control Pro when a non-CPU lens is mounted on the camera (the operations listed can still be performed using the controls on the camera body; see the camera manual for details):

	D2-series D200				
	With lens data	No lens data	D1-series	D100	D70S D70 D50
Exposure Mode	Can be selected from Aperture-priority auto and Manual .			Can not be adjusted. Mode selected with camera displayed. Photos can only be taken in mode M.	Can only be adjusted if Enable controls on the camera body is not checked. Otherwise same as D100.
Shutter Speed	Can only be adjusted in manual exposure mode.				
Aperture	Shown with asterisk.	Aperture shown as "f/--". Can not be adjusted.			
AF and Shoot	Can not be used.				
Shoot	Can be used.*				

* If D100, D70S, D70, or D50 is connected and set to an exposure mode other than manual, a warning will be displayed.

Camera Controls

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The Image Processing Tab

The following settings can be adjusted from the Image Processing tab:

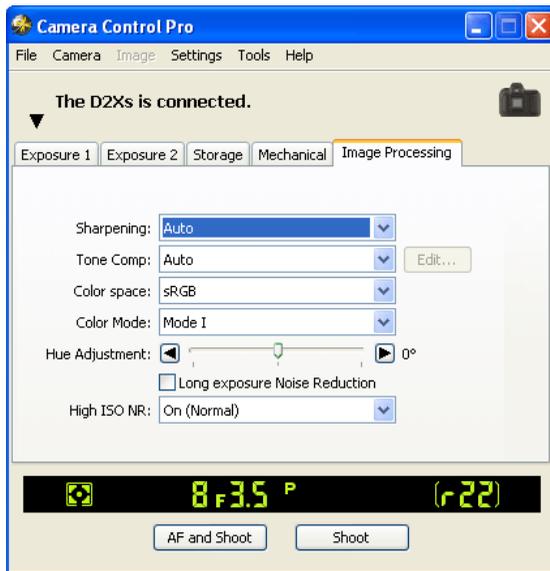


Image Optimize (D200) (D70S) (D70) (D50)	Choose the type of image optimization performed. See the camera manual for details.
Sharpening	Choose how much the camera sharpens outlines. See the camera manual for details.
Tone Comp	Adjust contrast. See the camera manual for details. Selecting "Custom" or "Custom 1–3" (D2Xs only) and clicking Edit will display "Edit Camera Curves" dialog .
Color space (D2X) (D2Xs) (D200)	Choose a color space. See the camera manual for details.
Color Mode (D1X) (D1H) (D2-series) (D100) (D200) (D70S) (D70) (D50)	Choose a color mode. See the camera manual for details. With the D1, colors are optimized for the NTSC color space, regardless of the option chosen.
Saturation (D200) (D70S) (D70) (D50)	Adjust color saturation. See the camera manual for details.

Camera Controls

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The Image Processing Tab

Hue Adjustment



Modify hue while leaving brightness and chroma unaffected. Adjustments can be made in the range -9° to 9° , with 0° representing the original hues as recorded by the camera (in D1-series cameras, -9° is equivalent to a camera hue setting of 0, 0° to a setting of 3, and 9° to a setting of 6).

Long Exposure Noise Reduction



Select this option to reduce noise at slow shutter speeds. See the camera manual for details.

High ISO Noise Reduction



Select **On (Normal)**, **On (Low)**(D200 only) or **On (High)** to reduce noise at high sensitivities. See the camera manual for details.

Saving and Loading Camera Control Settings

The Camera Control Pro option in the **Settings** menu is used to save Camera Control Pro settings and to load and apply previously saved settings.



Load Control Settings...	Select this item to load camera settings previously saved using Save Control Settings... (see below). A dialog will be displayed where you can navigate to the drive (volume) and directory containing the desired settings file (only files with the extension ".ncc" will be displayed). The settings in the Camera Control Pro window will instantly revert to the saved settings. Bracketing settings are not affected.
Save Control Settings...	Select this item to save the settings in the Camera Control Pro window to a named file. These settings can later be recalled using Load Control Settings... . Choosing Save Control Settings... displays a dialog where you can choose a destination and file name for current camera settings. Camera Control Pro settings are saved with the extension ".ncc". Note that bracketing settings are not saved.

The Camera Menu

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The commands in the **Camera** menu are used to adjust the following camera settings:

Custom Settings...

Selecting this option opens the [Custom Settings dialog](#), where camera Custom Settings can be adjusted.

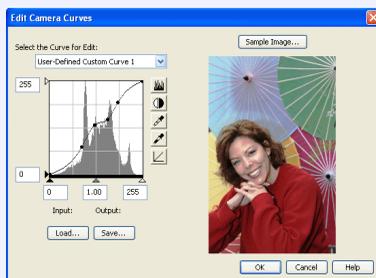
Set Date and Time...

Selecting this option opens the dialog shown at right, where you can set the camera's clock calendar to the current date and time. To view the current time and date settings, click **Use Current Date/Time**. Click **Set** to set the clock calendar to the time and date shown.



Edit Camera Curves...

This option is used to create a custom tone compensation curve and download it to the camera, where it applies when "Custom" is selected for the camera tone compensation option.



The controls in the Edit Camera Curves window are similar to those used to edit tone curves in Adobe Photoshop and other imaging software, except in the following respects: (1) only the master channel, not individual RGB channels, may be edited; (2) there is a limit of 20 spline points; (3) the midpoint may not be edited; (4) a user-defined sample image can be selected by clicking **Sample Image...** (the sample image must be a RAW image created with a D1-series, D2-series, D100, D200, D70S, D70, or D50 camera). Any changes to curves are reflected in the sample image. In the case of the D2Xs, up to three curves can be edited using the **Select the Curve for Edit** menu. To copy the edited curve to the camera, click **OK**.

The upper left section of the Edit Camera Curves window contains **Load...** and **Save...** buttons. By clicking the **Load...** button, previously stored curves, with less than 20 spline points, can be selected via the "Open" dialog (if the selected file has more than 20 spline points, a warning will be displayed, and no file will be loaded). The Curve settings files from Nikon Capture Editor can also be selected. Look for files with the ".ntc" or ".ncv" extension.

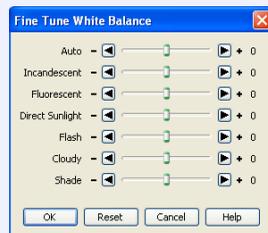
The **Save...** button opens the "Save As" dialog, where you can save the current curve.

The Camera Menu

2/4

Fine-Tune White Balance... D1-series D2-series D100 D200 D70S D70

Selecting this option displays the dialog shown at right, where white balance can be fine-tuned between -3 and $+3$. The value selected for **Auto** will be added to the white balance setting the camera chooses for auto white balance. Clicking **Reset** returns all values to defaults. Click **OK** to apply the current settings to the camera, or click **Cancel** to discard any changes and return to the Camera Control Pro window.



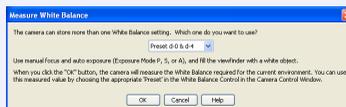
Set Color Temperature... D2-series D200

Selecting this option displays the dialog shown at right, where color temperature can be chosen from a menu. The value chosen takes effect whenever **Choose color temp.** is selected for white balance. Click **OK** to apply the current settings to the camera, or click **Cancel** to exit without saving changes.



Measure White Balance...

Use this option to measure preset white balance. If the camera currently connected supports multiple values for preset white balance, the setting that will be used to store the measured value can be chosen from the pop-up menu at the top of the dialog. Adjust camera settings as described in the section on preset white balance in the camera user's manual and click **OK** to measure a value for white balance.



D2Xs (dialogs for other cameras may differ)

Set Color Temperature... D2-series D200

The desired results may not be achieved with flash or fluorescent lighting.

Choosing a Mode D70S D70 D50

The **Measure White Balance...** option is only available in P, S, A, and M modes.

The Camera Menu

3/4

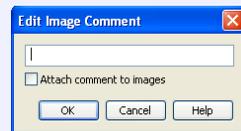
Dust Off Ref Photo D2-series D200 D70S D70 D50

Choose this option to take a reference photo for the Image Dust Off option in Capture NX (available separately) and other Nikon software. The dialog shown at right will be displayed. With the camera lens ten centimeters (four inches) from a featureless white object, frame the object so that it fills the viewfinder and click **OK** to record an Image Dust Off reference photo. See the camera manual for details.



Edit Image Comment...

Selecting this option displays the dialog shown at right, where you can enter a comment or title for subsequent photographs. If the camera currently connected is in the D1-series, enter a title of thirty-eight characters or less and click **OK**. The title will be used for all subsequent photographs taken while the camera is connected. When a D2-series, D100, D200, D70S, D70, or D50 camera is connected, the title is stored in the camera as an image comment of thirty-six characters or less which is appended to photographs only when the **Attach comment to images** box is checked.



D2Xs (dialogs for other cameras may differ)

The Camera Menu

4/4

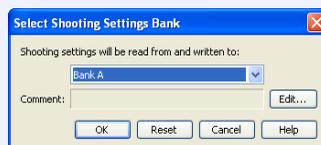
Select Shooting Settings Bank... D2-series D100 D200

Selecting this option displays the dialog shown at right, where you can choose the shooting menu bank in which changes to settings will be stored while the camera is controlled from Camera Control Pro. See the camera manual for details.

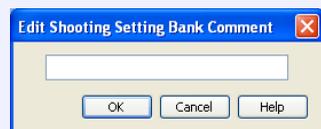


D100

The D2 series and D200 allow a descriptive comment to be added to the name of each shooting menu bank. Clicking **Edit...** displays the dialog shown at right, where the comments for each bank can be edited. Click **OK** to copy the comments to the camera. Comments can be up to twenty characters long and contain letters, numbers, quotes, apostrophes, spaces, and any of the following characters: ", " ! " ? " # " \$ " % " & " (") " ["] " { " } " * " + " - " / " : " ; " < " = " > " _ " and "@".



D2 series/D200



Edit Comment dialog

Set Bracketing Mode D2-series D200 D70S D70 D50

Selecting this option displays the BKT Mode dialog. See [Auto Bracketing](#) in the Mechanical panel for details.

Time Lapse Photography...

Selecting this option opens the [Time Lapse Photography dialog](#).

Enable controls on the camera body D2-series D200 D70S D70 D50

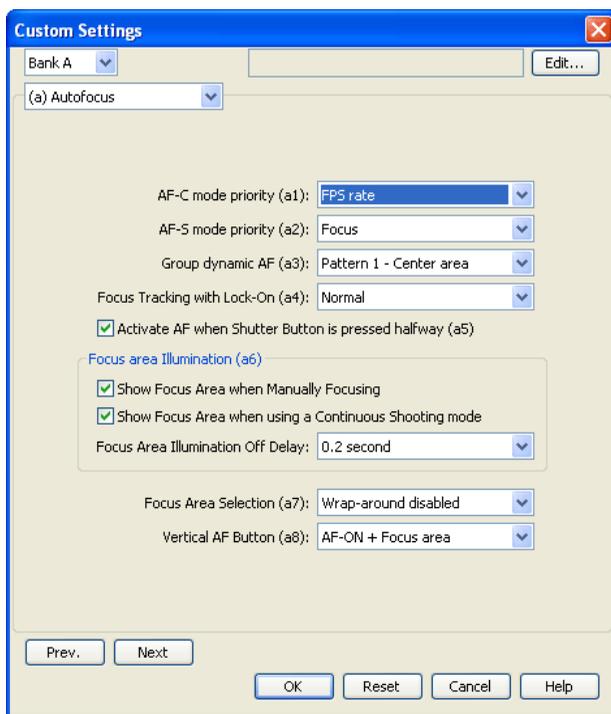
Check this option to enable camera controls, allowing settings to be adjusted and photographs taken directly from the camera. If this option is not checked, only the power switch and AF-area mode selector can be used.

Custom Settings

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Most of the custom settings stored in camera memory can be viewed and adjusted from the Custom Settings window in Camera Control Pro. For more information on Custom Settings, see the documentation provided with your camera.

- 1 Select **Custom Settings...** from the **Camera** menu
The Custom Settings dialog for the current camera will be displayed.



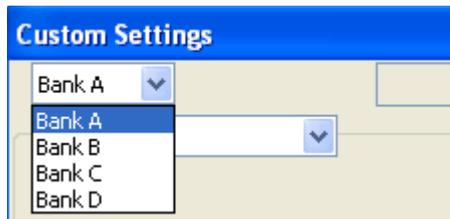
Changes to Custom Settings

Changes made to settings in the Custom Settings dialog are stored in the camera, not on the computer hard disk. This means that changing settings in the Custom Settings dialog has the same effect as changing Custom Settings using camera controls.

Custom Settings

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- 2 Choose a Custom Settings bank (D1 series/D2 series/D100/D200 only)
Choose a Custom Settings bank (Custom Settings set) from the pop-up menu at the top right corner or the Custom Settings dialog.



The banks available depend on the model of camera currently connected. When the D1 or D100 is connected, you have a choice of banks A or B; when a D2-series, D1X, D1H, or D200 camera is connected, banks A, B, C, or D can be selected.

- 3 Click **OK**
After making any changes to Custom Settings, click **OK** to save changes in the camera Custom Settings bank and exit the Custom Settings dialog.

Custom Settings

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Custom Settings

Custom Settings can not be saved to a separate file. Clicking the Reset button resets all Custom Settings to their default values.

Settings That Can Not Be Adjusted from the Custom Settings Window

The Custom Settings listed below can not be adjusted in the Custom Settings window.

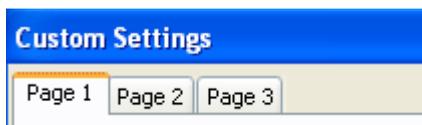
- Mirror lock-up for CCD cleaning (D1-series Custom Setting 8)/Cleaning mirror up (D100 setup menu): can only be adjusted from the camera
- RAW (NEF) image save (D1-series Custom Setting 28): if this option is set to "0" (off) when Camera Control Pro is started, a message will be displayed. Clicking OK in this dialog sets Custom Setting 28 to "1" (uncompressed RAW image save enabled). Custom Setting 28 can only be returned to "0" from the camera.
- ISO Auto (D100 Custom Setting 3)/ISO Boost (D1-series Custom Setting 31): can be adjusted from the Exposure 2 tab of the Camera Control Pro window.
- PC Shooting Mode (D1-series Custom Setting 30): this option is adjusted from the Mechanical tab of the Camera Control Pro window.
- Tone Compensation (D1-series Custom Setting 24)/Color Mode (D1X/D1H Custom Setting 32)/Hue Adjustment (D1X/D1H Custom Setting 33)/Noise Reduction (D100 Custom Setting 4): can be adjusted from the Processing tab of the Camera Control Pro window.

Custom Settings

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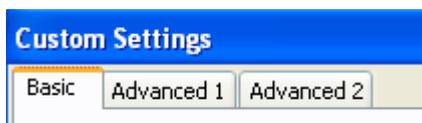
Custom Settings for D1-Series and D100 Cameras

Custom Settings for D1-series and D100 cameras are divided among three tabs: Page 1, Page 2, and Page 3. See the camera manual for details.



Custom Settings for D70S, D70, and D50 Cameras

Custom Settings for the D70S, D70, and D50 are divided among three tabs: Basic, Advanced 1, and Advanced 2. See the camera manual for details.

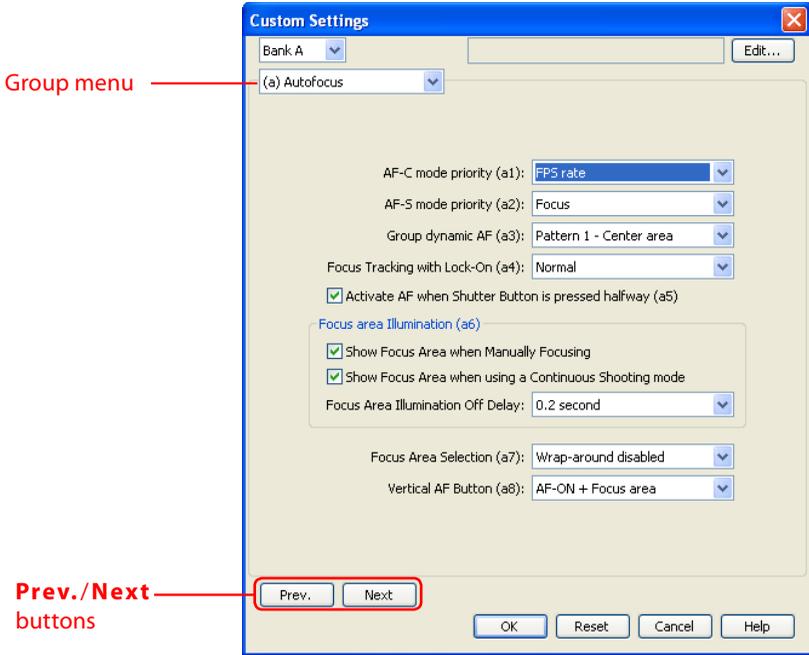


Custom Settings

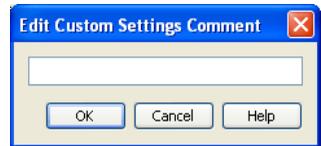
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Custom Settings for D2-Series and D200 Cameras

Custom Settings in each bank are divided into six groups: autofocus, metering/exposure, timers/autoexposure and autofocus lock, shooting/display, bracketing/flash, and controls. The group can be chosen from the group menu or by clicking the **Next** and **Prev.** buttons.



D2-series and D200 cameras allow a descriptive comment to be added to the name of each Custom Settings bank. Clicking **Edit...** displays the dialog shown at right, where the comments for each bank can be edited. Click **OK** to copy the comments to the camera. Comments can be up to twenty characters long and contain letters, numbers, quotes, apostrophes, spaces, and any of the following characters: " " ! " ? " # " \$ " % " & " (") " ["] " { " } " * " + " - " / " : " ; " < " = " > " _ " and "@".



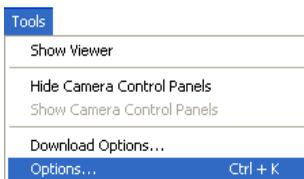
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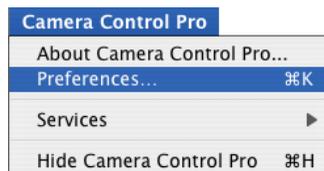
Camera Control Pro Preferences

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To view the Preferences (Options) dialog for Camera Control Pro, select **Options...** from the **Tools** menu (*Windows*) or select **Preferences...** from the application menu (*Macintosh*).



Windows



Macintosh

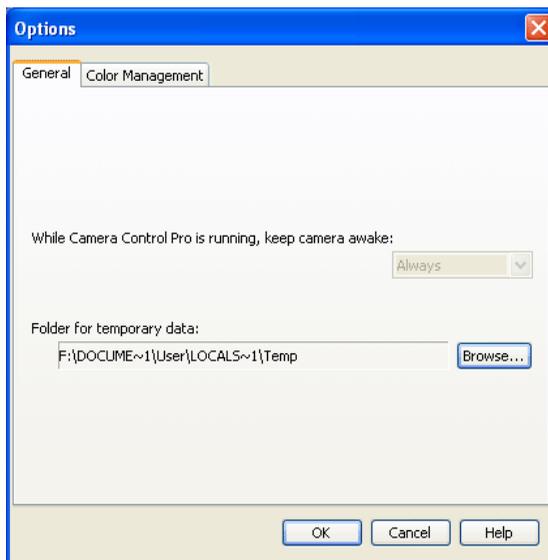
The Preferences dialog contains [General](#) and [Color Management](#) tabs.

Camera Control Pro Preferences

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The General Tab

The General tab contains the following items:



While Camera Control Pro is running, keep camera awake

Choose how long the exposure meters remain on when the camera is operated on battery power. This setting only takes effect when the camera is connected and powered on with Camera Control Pro running, and takes precedence over the auto meter off option chosen using camera Custom Settings. Cameras powered by an AC adapter and D2-series, D100, D200, D70S, D70, and D50 cameras will stay awake indefinitely, regardless of the setting chosen here.

for 15 minutes (D1-series only): The exposure meters turn off automatically if no operations are performed for 15 minutes.

Always: The exposure meters remain on indefinitely. Note that this will increase the drain on the battery.

Folder for temporary data /Volume for temporary data

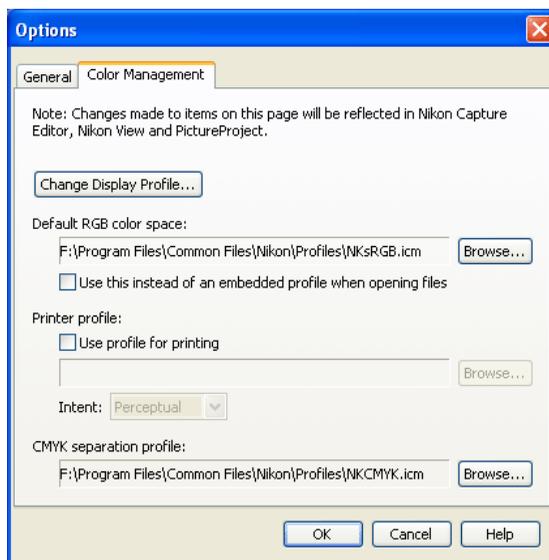
Specify the folder or volume in which temporary data, such as image cache data, will be stored. The default folder for Windows is the "TEMP" folder in the Windows directory, while the default volume for the Macintosh is the start-up disk. To choose a different folder in the Windows version of the program, click the **Browse...** button and navigate to the desired location. In the Macintosh version, a new volume can be chosen from the pop-up menu.

Camera Control Pro Preferences

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The Color Management Tab (Windows)

The Color Management tab is where you specify the color management profiles used for displaying images on your monitor, editing and saving RGB images, and saving and printing CMYK images.



Change Display Profile

To choose a display profile, click **Change Display Profile...**. The Windows "Display Properties" dialog will be displayed; open the Settings tab and click **Advanced...** to open the display adapter properties dialog. To select a display profile, open the Color Management tab and click **Add**.

Default RGB color space

The output color-space profile used when working with RGB images is displayed here. Click **Browse...** to choose a new default RGB profile. If **Use this instead of an embedded profile when opening files** is checked, this RGB color space profile will be used for all images. If it is not checked, the profile embedded in each image will be used.

Camera Control Pro Preferences

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The Color Management Tab (Windows)

Printer profile	<p>Specifies the printer profile to be used when printing images from PictureProject.</p> <p>Use profile for printing: If this option is checked, you can choose a profile for printing by clicking the Browse... button. The selected profile will appear in the adjacent text box. If this option is not checked, the default RGB color space will be used.</p> <p>Intent: If you have chosen to use a printer profile, the type of matching to be performed can be selected from Relative and Perceptual. (Depending on the profile, changing the matching method may produce no change in output. This option is not supported with some profiles; consult the manufacturer for details.)</p> <ul style="list-style-type: none"> • Relative: Colors not in the gamut of the selected printer profile will be printed using the closest colors available. Other colors are not affected. • Perceptual: If the image contains colors not in the gamut of the selected printer profile, all colors in the image will be compressed to fit the gamut.
CMYK separation profile	<p>Lists the profile used to convert RGB images to CMYK when saving images in CMYK-TIFF format using PictureProject. To choose a different profile, click the Browse... button.</p>

Camera Control Pro Preferences

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Multiple Displays

In a multiple display environment, choose a single profile suited to all displays.

Default Display Profile

The default Windows display profile is "NKMonitor_win.icm." This profile is equivalent to sRGB.

Supported Color Profiles

Camera Control Pro supports only ICC (International Color Consortium) monitor and CMYK profiles. Particular care should be exercised when choosing a CMYK profile, as the profile supplied by the manufacturer of your output device may not be an ICC profile.

See "[RGB Color-Space Profiles](#)" for a list of the RGB color-space profiles supplied with Camera Control Pro. The "NKCMYK.icm" CMYK profile provided with Camera Control Pro is a general-purpose, almost neutral profile that is not based on a specific ink set, making it suited for use where output conditions are not known.

The Color Management Tab

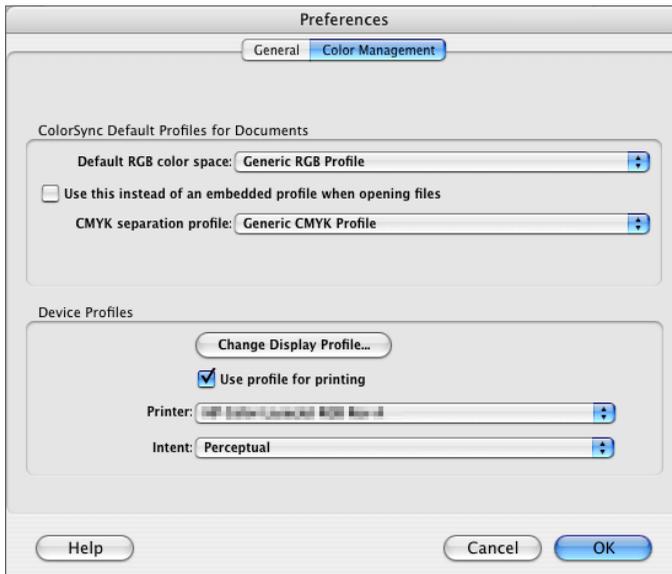
Changes to settings in the Color Management tab also apply to PictureProject. They are not reflected in Capture NX (available separately).

Camera Control Pro Preferences

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The Color Management Tab (Macintosh)

The Macintosh version displays the following options.



ColorSync Default Profiles for Documents

The default color-space profiles for editing and saving images are displayed in this area.

Default RGB color space: Choose the output color-space profile used when working with RGB images. If **Use this instead of an embedded profile when opening files** is checked, this RGB color space profile will be used for all images. If it is not checked, the profile embedded in each image will be used.

CMYK separation profile: Lists the profile used to convert RGB images to CMYK when saving images in CMYK-TIFF format.

Camera Control Pro Preferences

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The Color Management Tab (Macintosh)

Device Profiles	Lists the default color-space profiles for monitors and printers.
	<p>Change Display Profile...: If this button is displayed, you can click it to open the Displays section of the System Preferences dialog. Open the Color panel (Mac OS X) to choose a display profile.</p>
	<p>Use profile for printing: If this option is checked, the profile listed in the Printer text box will be used when printing images. Note that CMYK profiles can not be used in Camera Control Pro; if a CMYK profile is selected, the status of the Use profile for printing check-box can not be changed. If Use profile for printing is not selected, images will be printed using the default RGB profile.</p>
	<p>Intent: If you have chosen to use a printer profile, the type of matching to be performed can be selected from Relative and Perceptual. (Depending on the profile, changing the matching method may produce no change in output. This option is not supported with some profiles; consult the manufacturer for details.)</p> <ul style="list-style-type: none"> • Relative: Colors not in the gamut of the selected printer profile will be printed using the closest colors available. Other colors are not affected. • Perceptual: If the image contains colors not in the gamut of the selected printer profile, all colors in the image will be compressed to fit the gamut.

Supported Color Profiles

Camera Control Pro supports only ICC (International Color Consortium) monitor and CMYK profiles. Particular care should be exercised when choosing a CMYK profile, as the profile supplied by the manufacturer of your output device may not be an ICC profile.

See "[RGB Color-Space Profiles](#)" for a list of the RGB color-space profiles supplied with Camera Control Pro. The "Nikon CMYK 4.0.3000" CMYK profile provided with Camera Control Pro is a general-purpose, almost neutral profile that is not based on a specific ink set, making it suited for use where output conditions are not known.

The Color Management Tab

Changes to the display profile apply system wide. Changes to other settings in the Color Management tab are not reflected in Capture NX (available separately) and PictureProject.

Multiple Displays

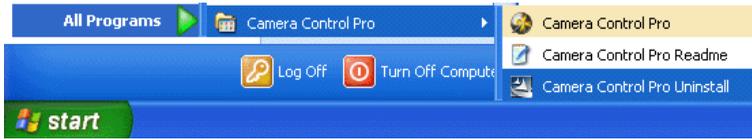
Camera Control Pro will identify and list the profiles for all monitors in an extended desktop display, allowing you to choose a separate profile for each monitor.

Uninstalling Camera Control Pro

Windows

Use an account with administrator privileges to perform the uninstall.

- 1 Click **Start** and select **Camera Control Pro > Camera Control Pro Uninstall** from the program list.

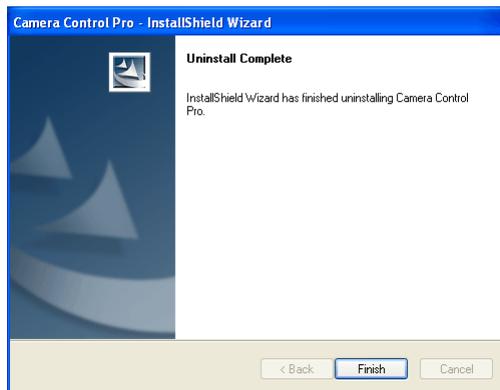


- 2 Click **Yes** to begin removing Camera Control Pro and all of its components.



- 3 If the uninstaller encounters read-only files or components shared by another application, a confirmation dialog will be displayed. Read the information displayed carefully before deciding what to do with the affected components.

- 4 Click **Finish**. Restart the computer if so directed.



Uninstalling Camera Control Pro

Macintosh

Use an account with administrator privileges to perform the uninstall.

- 1 Open the “Applications:Nikon Software:Camera Control Pro” folder and double-click the **Camera Control Pro Uninstaller** icon.



- 2 Enter the administrator name and password and click **OK**.



- 3 Click **Yes**.



- 4 Click **Quit** to exit the uninstaller once Camera Control Pro has been removed.



RGB Color Space Profiles

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Profiles with a Gamma Value of 1.8

Color profile	<i>Windows</i>	<i>Macintosh</i>	Description
Apple RGB	NKApple.icm	Nikon Apple RGB 4.0.0.3000	This profile is used in desk-top publishing applications and in Adobe Photoshop versions 4.0 or earlier, and is the typical RGB profile for Macintosh monitors. The corresponding RGB setting in Adobe Photoshop is "Apple RGB." This profile is suitable for working with images displayed on the Macintosh.
Color-Match RGB	NKCMatch.icm	Nikon Color-Match RGB 4.0.0.3000	The ColorMatch profile is native to Radius PressView monitors. It has a wider gamut than Apple RGB, with a particularly wide area devoted to the reproduction of blues. The corresponding RGB setting in Adobe Photoshop is "Color Match RGB."

Profiles with a Gamma Value of 2.2

Color profile	<i>Windows</i>	<i>Macintosh</i>	Description
sRGB	NKsRGB.icm	Nikon sRGB 4.0.0.3001	This RGB profile is used in the majority of Windows monitors. It closely resembles the RGB commonly used in color television, and is also used in the digital television broadcasting system that is on its way to becoming the industry standard in the United States of America. Software and hardware manufacturers use it as a default color profile and guarantee operation when it is used. It is also on its way to becoming the standard for images on the web. This profile is suited to users who plan to use their digital images "as is," without editing or printing them. It however suffers from the drawback of a narrow gamut with a limited area available for reproducing blues. The corresponding RGB setting in Adobe Photoshop 5.0 and 5.5 is "sRGB," the corresponding setting in Adobe Photoshop 6.0 "sRGB IWC61966-2.1."
Bruce RGB	NKBruce.icm	Nikon Bruce RGB 4.0.0.3000	This color profile attempts to expand on the ColorMatch RGB gamut by defining the chromaticity for G as lying between the values for G in the Adobe RGB and ColorMatch color-space profiles. It was proposed by Bruce Fraser, who claims that it includes most of the colors in the SWOP CMYK gamut. The R and B used in the Bruce RGB and Adobe RGB color-space profiles match.

RGB Color Space Profiles

2/2

NTSC (1953)	NKNTSC.icm	NTSC (1953) 4.0.0.3000	This is the color space for video defined by the National Television Standards Committee (NTSC) in 1953 and used in early color televisions. This color space is also used in some Far-East newspaper and printing organizations. The corresponding RGB setting in Adobe Photoshop is "NTSC (1953)."
Adobe RGB (1998)	NKAdobe.icm	Nikon Adobe RGB (1998) 4.0.0.3000	A color-space profile defined in Adobe Photoshop 5.0. It has a wider gamut than sRGB and includes the colors found in most CMYK gamuts, making it suitable for users involved in desktop publishing. The corresponding RGB setting in Adobe Photoshop 5.0 is "SMPTE-240M," the corresponding setting in Adobe Photoshop 5.5 or later "Adobe RGB (1998)."
CIE RGB	NKCIE.icm	Nikon CIE RGB 4.0.0.3000	A video color-space profile established by the <i>Commission Internationale de l'Éclairage</i> (CIE). While it boasts a fairly wide gamut, it suffers from the drawback that the area devoted to the reproduction of cyan is relatively small. The corresponding RGB setting in Adobe Photoshop is "CIE RGB."
Adobe Wide RGB	NKWide.icm	Nikon Adobe-Wide RGB 4.0.0.3000	This color-space profile, designed by Adobe, incorporates most of the visible colors. This however has the consequence that most of the colors it can express can not be reproduced on standard monitors and printers. The corresponding RGB setting in Adobe Photoshop 5.0 or later is "Adobe Wide RGB."

Device Registration

If D1-series cameras are not recognized by the computer to which Camera Control Pro is installed, the camera or IEEE 1394 (FireWire) board may not be correctly registered with the Windows Device Manager. To check whether a device is registered with the Device Manager, click on the links below.

***Windows XP
Professional/Home Edition***

Windows 2000 Professional

Opening the Device Manager

Devices are registered with the Windows Device Manager. To open the Device Manager:

Windows XP: Select **Control Panel** from the **Start** menu to open the “Control Panel” window, then click **Performance and Maintenance** icon to open the **Performance and Maintenance** control panel. Click the **System** icon to open the **System Properties** window. Open the “Hardware tab” and click **Device Manager**.

Windows 2000: Right-click the **My Computer** icon on the desktop and select **Properties** from the menu that appears. In the “System Properties” dialog, open the “Hardware” tab and click the **Device Manager** button.

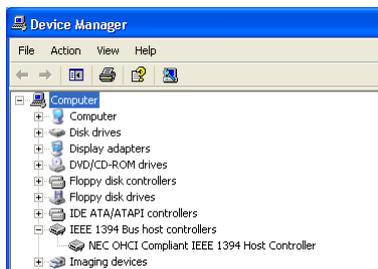
Device Registration

Windows XP 1/4

Registering the IEEE 1394 Interface Board

Confirm that the OHCI-compliant IEEE 1394 interface board or card has been correctly registered with the system.

- 1** **Open the Device Manager.** If the camera has been correctly registered with the system, the controller for your camera should appear under “1394 Bus Controller.”



If “IEEE 1394 Bus host controllers” is not listed in the Device Manager, or if the IEEE 1394 interface board or card is listed as an unknown or miscellaneous device or is preceded by a red or yellow warning icon, follow the instructions in the manual provided with the board to ensure that the drivers are properly installed.

- 2** Install the driver for D1-series cameras from the Camera Control Pro CD, then connect the camera to the computer using an IEEE 1394 cable and turn the camera on. The camera will be registered automatically.

Logging On

Log on as the “Computer Administrator” when registering the camera.

Before Connecting the Camera

Be sure to install Camera Control Pro before connecting the camera to the computer.

Device Registration

Windows XP 2/4

Registering the Device Driver

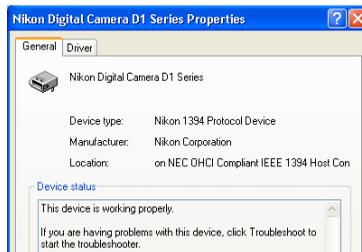
Follow the instructions below to check that the camera has been correctly registered with the system.

- 1 **Open the Device Manager** and confirm that “Nikon 1394 Protocol Device” and the camera is listed.



If the camera is listed under “Other devices,” **reinstall the device drivers**. If “Nikon 1394 Protocol Device” is not listed in the Device Manager and the camera does not appear under “Other devices,” disconnect the camera and restart the computer. Reconnect the camera after the computer has restarted.

- 2 Double-click the listing for the camera that appears under “Other devices.” Click the “General” tab and confirm that “This device is working properly” appears under “Device status.”



Troubleshooting

If “1394 Bus host Controller” is listed in the Device Manager but the entry for the Nikon D1 (D1X/D1H) does not appear, check the following:

- Is the camera on?
- Is the battery fully charged? If you are using an AC adapter (available separately), is it properly connected?
- Is the mode dial set to “PC”?
- Is the IEEE 1394 cable properly connected?

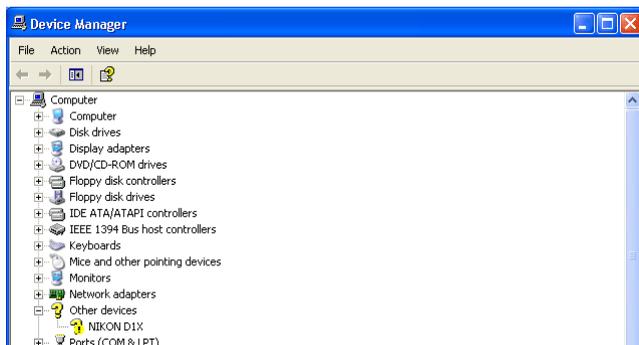
Device Registration

Windows XP 3/4

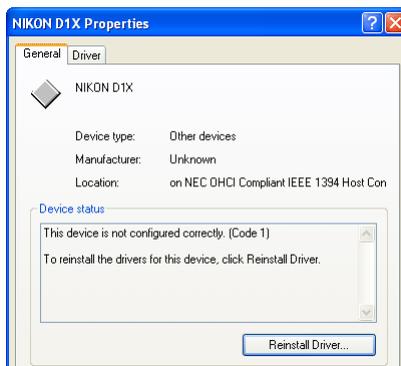
Reinstalling the Device Driver

If the camera is listed under “Other devices,” reinstall the device drivers as instructed below.

- 1 Double-click the listing for the camera that appears under “Other devices.”



- 2 Open the “General” tab and click **Reinstall Driver...**



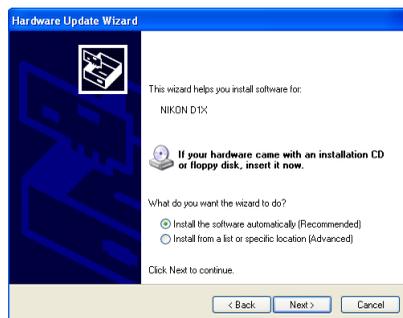
- 3 Select **No, not this time** and click **Next**.



Device Registration

Windows XP 4/4

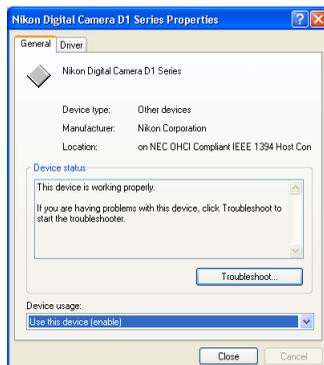
- 4 Pressing the shift key to prevent the “Select Region” dialog from opening automatically, insert the Camera Control Pro CD. Select **Install the software automatically** and click **Next**.



- 5 Click **Finish**.



- 6 Confirm that “This device is working properly” appears under “Device status” in the “General” tab of the camera “Properties” dialog.



Device Registration

Windows 2000 1/8

Registering the IEEE 1394 Interface Board

Confirm that your OHCI-compliant IEEE 1394 interface board or card has been correctly registered with the system.

- 1** **Open the Device Manager.** If the camera has been correctly registered with the system, the controller for your camera should appear under “1394 Bus host Controller.”



If “1394 Bus host Controller” is not listed in the Device Manager, or if the IEEE 1394 interface board or card is listed as an unknown or miscellaneous device or is preceded by a red or yellow warning icon, follow the instructions in the manual provided with the board to ensure that the drivers are properly installed.

- 2** Install the driver for D1-series cameras from the Camera Control Pro CD, then connect the camera to the computer using an IEEE 1394 cable and turn the camera on. The camera will be registered automatically.

Logging On

Log on as the “Administrator” when registering the camera.

Updating Drivers for the D1

If you are already using the D1 with Nikon View DX or Nikon Capture, [you will need to update the camera drivers.](#)

Before Connecting the Camera

Be sure to install Camera Control Pro before connecting the camera to the computer.

Device Registration

Windows 2000 2/8

Registering the Device Driver

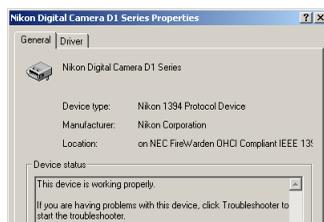
Follow the instructions below to check that the camera has been correctly registered with the system.

- 1 **Open the Device Manager** and confirm that “Nikon 1394 Protocol Device” and the camera are listed.



If the camera is listed under “Other devices,” **reinstall the device drivers**. If “Nikon 1394 Protocol Device” is not listed in the Device Manager and the camera does not appear under “Other devices,” disconnect the camera and restart the computer. Reconnect the camera after the computer has restarted.

- 2 Double-click the listing for the camera that appears under “Other devices.” Click the “General” tab and confirm that “This device is working properly” appears under “Device status.”



Troubleshooting

If “1394 Bus host Controller” is listed in the Device Manager but the entry for the Nikon D1 (D1X/D1H) does not appear, check the following:

- Is the camera on?
- Is the battery fully charged? If you are using an AC adapter (available separately), is it properly connected?
- Is the mode dial set to “PC”?
- Is the IEEE 1394 cable properly connected?

Device Registration

Windows 2000 3/8

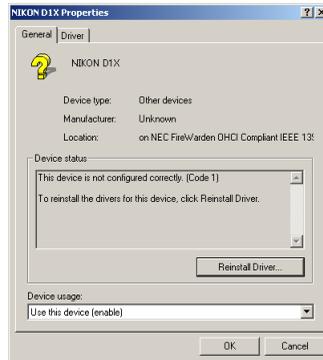
Reinstalling the Device Driver

If the camera is listed under “Other devices,” reinstall the device drivers as instructed below.

- 1 Double-click the listing for the camera that appears under “Other devices.”



- 2 Open the “General” tab and click **Reinstall Driver**.



- 3 Click **Next**.



Device Registration

Windows 2000 4/8

4 Select the search option and click **Next**.



5 Pressing the shift key to prevent the "Select Region" dialog from opening, insert the Camera Control Pro CD (if the "Select Region" dialog appears, click **Quit**). Select **CD-ROM drives** and click **Next**.



6 Click **Next**.



If the message "Windows was unable to find a suitable driver for this device" is displayed, the CD was not correctly inserted or the correct search location was not selected. Click **Back** to return to the dialog shown in Step 5 and confirm that the search location is correct.

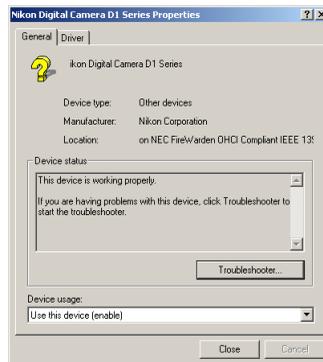
Device Registration

Windows 2000 5/8

7 Click **Finish**.



8 Confirm that "This device is working properly" appears under "Device status" in the "General" tab of the "Nikon Digital Camera D1 Series Properties" dialog.



Device Registration

Windows 2000 6/8

Updating the Device Driver

If you are already using the D1 with Nikon View DX or Nikon Capture, you will need to update the camera drivers.

- 1 **Open the Device Manager.** Expand the “Nikon 1394 Device” entry and double-click **Nikon Digital Camera D1.**



- 2 Open the “Driver” tab and click **Update Driver...**



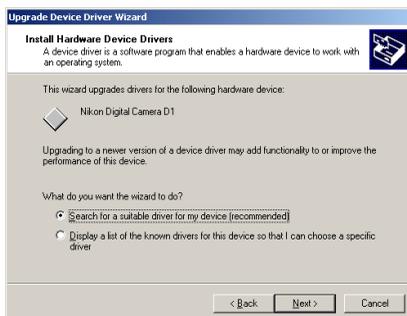
- 3 Click **Next.**



Device Registration

Windows 2000 7/8

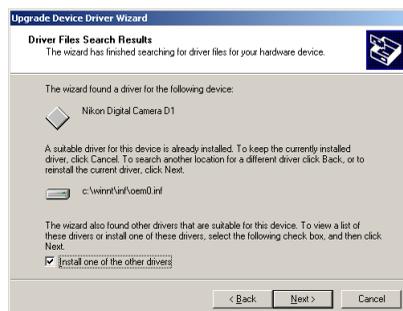
4 Select the search option and click **Next**.



5 Pressing the shift key to prevent the "Select Region" dialog from opening, insert the Camera Control Pro CD (if the "Select Region" dialog appears, click **Quit**). Select **CD-ROM drives** and click **Next**.



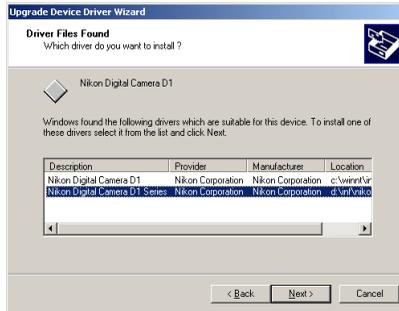
6 Select **Install one of the other drivers** and click **Next**.



Device Registration

Windows 2000 8/8

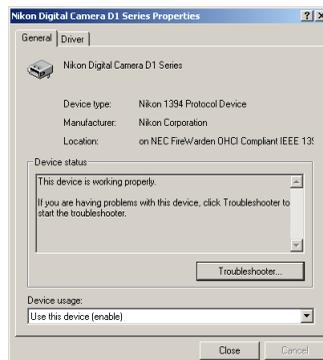
7 Select **Nikon Digital Camera D1 Series** and click **Next**.



8 Click **Finish**.



9 Confirm that "This device is working properly" appears under "Device status" in the "General" tab of the "Nikon Digital Camera D1 Series Properties" dialog.



Customer Support

1/2

Nikon User Support Information

If you are in need of technical assistance with the installation or operation of your Nikon product(s), please do not hesitate to contact one of the following Nikon representatives. When calling support, you will be asked to supply the serial and/or version number(s) of your Nikon software. For efficient communication, it is highly recommended that you have your Nikon product in front of you.

Europe and Africa

Austria **AT**

Nikon GmbH
 Modecenterstr. 14, A - 1030 Wien
 Tel: +43-(0)900-150066
 Phone line costs (# 0,45€/min)

Belgium **BE**

H. De Beukelaer & Co. N.V./S.A.
 Boomsesteenweg 77, B-2630 Aartselaar
 Tel: +32-(0)3-870-59-00 Fax: +32-(0)3-877-01-25

Czech Republic **CZ**

Nikon SRO
 Kodanska 46, 100 10 Praha 10
 Tel: +420-267-154-560

Denmark **DK**

Nikon Nordic AB, dansk filial
 Ørestads Boulevard 67, 1, DK-2300 København S
 Tel: +45-32452000

Finland **FI**

Nikon Nordic AB Suomen toimisto
 Ojahaanrinne 4, 01600 VANTAA
 Tel: +358 9 5660 060

France **FR**

Nikon France S.A.S.
 191, Rue du Marché Rollay, 94504 Champigny
 Sur Marne Cedex
 Tel: +33-(0)8-25-82-10-10

Germany **DE**

Nikon GmbH
 Tiefenbroicher Weg 25, 40472 Düsseldorf
 Tel: +49-(0)900-1225564
 Phone line costs (# 0,24 €/min)

Greece **GR**

D. & J. Damkalidis S.A.
 44 Zefyrou St. 17564
 Tel: +30-210-9410888 Fax: +30-210-9427058

Hungary **HU**

Nikon Kft.
 Budapest, Fóti út 56. 1047 Hungary
 Tel: +36-1-232-13-71

Italy **IT**

Nital S.p.A.
 Via Tabacchi 33, 10132 Torino
 Tel: +39-199-12-41-72 Fax: +39-011-81-44-233

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 Rutherfordstraat 7, 2014 KA Haarlem
 Tel: +31-(0)23-5101910 Fax: +31-(0)23-5243551

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 Martin Linges vei 17, 1367 Snarøya
 Tel: +47-67-82-74-00

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Nikon Polska Sp. z o.o.
 ul. Postępu 14, 02-676 Warszawa
 Tel: +48-22-6079400

Rep. of South Africa **ZA**

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 Nikon House, 516 Kyalami Boulevard,
 Kyalami Business Park, Midrand 1685.
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 Zubarev pereulok, d.15, k.1, office 541, 129164 Moscow
 Tel: +7 (095) 733 91 70

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 C/Ciencias, 81 Nave-8, Poligono Pedrosa
 08908 L'Hospitalet de Llobregat, Barcelona
 Tel: +34-(0)93-2649090 Fax: +34-(0)93-3363400

Sweden **SE**

Nikon Nordic AB
 Anton Tamms väg 3, 194 22
 Upplands Väsby
 Tel: +46-(0)8-594-109-00

Switzerland **CH**

Nikon A.G.
 Im Hanselmaa 10, CH-8132 Egg Zurich
 Tel: +41-(0)848-277-000

United Kingdom **GB**

Nikon U.K. Ltd.
 380 Richmond Road, Kingston, Surrey KT2 5PR
 Tel: +44-(0)870-770-0231

Customer Support

2/2

Asia, Oceania, Middle-East and Canada

Australia **AU**

Maxwell Optical Industries Pty Ltd.
Unit F1, Lidcombe Business Park
3-29 Birnie Avenue, Lidcombe NSW 2141
Tel: +61-(0)2-8748-5200 Fax: +61-(0)2-8748-5220

Canada **CA**

Nikon Canada Inc.
1366 Aerowood Drive, Mississauga, Ontario L4W 1C1
Tel: +1-(0)905-625-9910 Fax: +1-(0)905-625-6446

China **CN**

Beijing Hua Xun Nikon Service Center
57, Xuanwumen Xidajie, Beijing 100803
Tel: +86-(0)10-6307-4142 Fax: +86-(0)10-6307-4122

Hong Kong **HK**

Nikon Hong Kong Ltd.
Suite 1001, 10F, Cityplaza One, 1111 King's Road,
Taikoo Shing
Tel: +852-(0)2902-9000 Fax: +852-(0)2907-0378

India **IN**

Photo Vision
223, Okhla Industrial Estate Phase III,
Near Modi Flour Mill, New Delhi - 110 020
Tel: +91-(0)11-2692-8913 Fax: +91-(0)11-2692-9856

Indonesia **ID**

Pt Alta Nikindo
Kompleks Mangga Dua Square
Block H 1&2 Jl.Gunung Sahariraya, Jakarta Utara 10730
Tel: +62-(0)21-6231-2700 Fax: +62-(0)21-6231-2777

Israel **IL**

Hadar Photo Supply Agencies Ltd.
36 - 38 Achad Haam St., Tel-Aviv
P.O. Box 1686
Tel: +972-(0)3-5603947 Fax: +972-(0)3-5603905

Korea **KR**

Nikon Imaging Korea Co., Ltd.
12th Floor, Seoul Chamber Of Commerce &
Industry Building,
4-45, Namdaemoon-Ro, Jung-Ku, Seoul 100-743
Tel: +82-(0)2-6050-1800 Fax: +82-(0)2-6050-1801

Lebanon **LB**

Gulbenk Trading Co.
Hamra-Makdessi Street, Adhami Building,
5th Floor, Beirut
P. O. Box 113-6645
Tel: +961-(0)1-353742 Fax: +961-(0)1-347613

Malaysia **MY**

Nikon (Malaysia) Sdn. Bhd.
11th Floor, Block A Menara PKNS
No. 17, Jalan Yong Shook Lin 46050 Petaling Jaya
Selangor Darul Ehsan
Tel: +60-(0)3-7809 3688 Fax: +60-(0)3-7809 3600

New Zealand **NZ**

T.A. Macalister Ltd.
65-73, Parnell Rise, Auckland
Tel: +64-(0)9-303-4334 Fax: +64-(0)9-309-6502

Philippines **PH**

Columbia Global Photo Sales Corporation
#129-135 Gregorio Roxas Street,
SFDM, Quezon city, 1117
Tel: +63-(0)2-363-8550 Fax: +63-(0)2-364-3334

Singapore **SG**

Nikon Singapore Pte. Ltd.
80 Anson Road #10-01/02 Fuji Xerox Towers
Singapore 079907
Tel: +65-6559-3618 Fax: +65-6559-3665

Taiwan **TW**

Lin Trading Co., Ltd.
8F, 272 Nanking Road, Sec. 3, Taipei 10566
Tel: +886-(0)2-2740-3366 Fax: +886-(0)2-2781-2525

Thailand **TH**

Niks (Thailand) Co., Ltd.
166 Silom Road 12, Bangkok 10500
Tel: +66-(0)2-235-2929-39 Fax: +66-(0)2-236-7240

Turkey **TR**

Teleoptik Ltd Sti
Ankara Caddesi Dedehan No. : 118-120,
Kat : 1-2, Sirkeci 34112, Istanbul
Tel: +90-(0)212-527-0789 Fax: +90-(0)212-520-6716

U. A. E. **AE**

Grand Stores, L.L.c
Saleh Bin Lahej Building, Mezzanine Floor,
Al Garhoud, Deira, Dubai
P. O. Box 2144
Tel: +971-(0)4-2823700 Fax: +971-(0)4-2828382

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Europe and Africa

<http://www.europe-nikon.com/support/>

Korea

<http://www.nikon.co.kr>

Asia Pacific Area

<http://www.nikon-asia.com>

Nikon Imaging Global Site

<http://nikonimaging.com/global/>