

PC Mode

In PC mode, a camera equipped with a WT-4 can be controlled over a wireless or **Ethernet** network from a computer running **Camera Control Pro 2** (available separately) and photographs saved directly to the computer hard disk instead of the camera memory card.

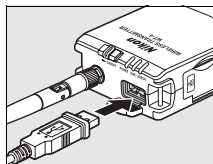
Connecting to the Computer

Before connecting the WT-4, select [MTP/PTP] for the [USB] option in the camera setup menu (pg.7) and confirm that the host computer is running.

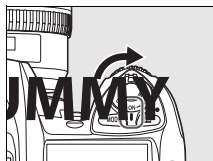
- 1 Turn the camera off.

To access the network via Ethernet, connect the Ethernet cable (pg.2). Note that wireless transfer is disabled while an Ethernet cable is connected. Disconnect the Ethernet cable before accessing a wireless network. Turn the **WT-4** off before connecting or disconnecting the Ethernet cable.

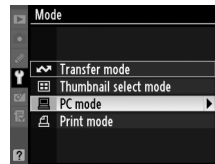
- 2 Open the **WT-4** USB connector cover and connect the USB cable from the WT-4 to the camera USB connector.



- 3 Turn the camera on.




- 4** Select [PC mode] for the [Wireless transmitter] > [Mode] option in the camera setup menu (pg.152).

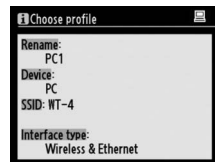


- 5** A list of available connection profiles will be displayed. **Highlight** the desired profile and press **OK**.



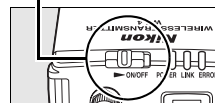
Viewing Profile Information

Press the camera  (?) button to view information on the selected profile.

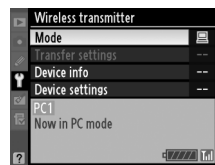


- 6** Turn on the WT-4.

Power switch



- 7** The message "Now in PC mode" will be displayed in the top level of the wireless transmitter menu when a connection is established. For information on what to do if an error is displayed, see "Troubleshooting" (pp.178).

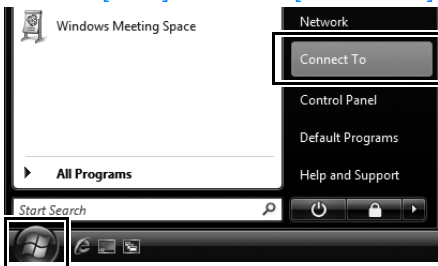


Using the Windows Vista Ad-hoc Connection

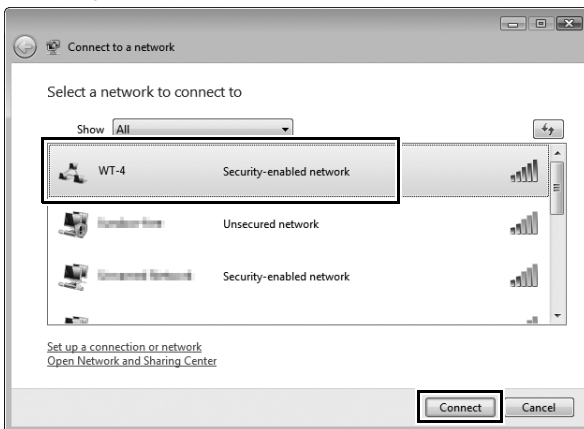
To use the Windows Vista ad-hoc connection, turn on the WT-4 and conduct the following steps on your computer.

PC Mode / Connecting to the Computer

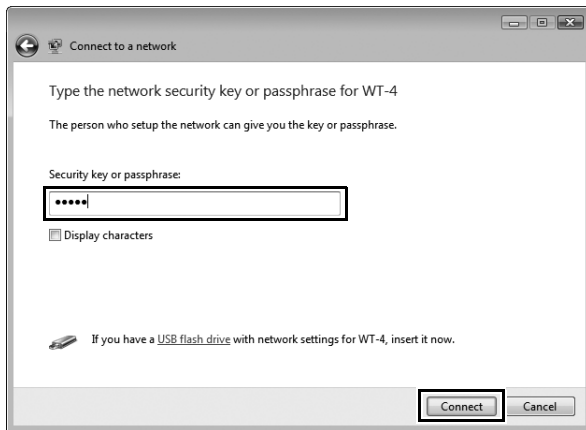
1 Click the [Start] and select [Connect To].



2 Select a preset network name and click [Connect].

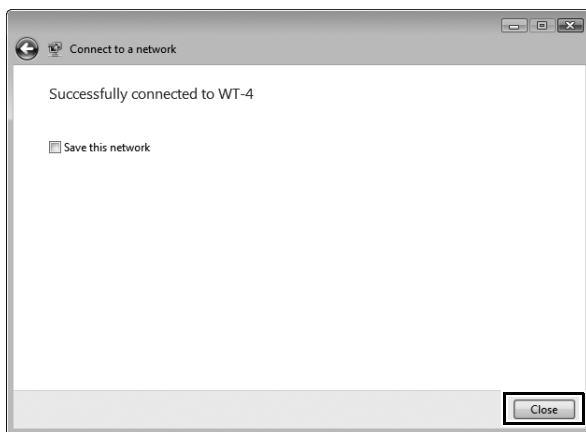


3 Enter the network security key and click [Connect].



PC Mode / Connecting to the Computer

4 Click [Close].

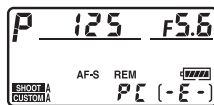


Controlling the Camera

PC Mode / Controlling the Camera

1 Complete the steps in “Connecting to the Computer” (pp.90–93).

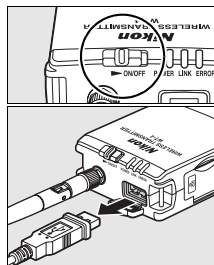
2 Start **Camera Control Pro 2** on the host computer and confirm that “PC” is displayed in the camera control panel.



3 Control the camera as described in the **Camera Control Pro 2 manual**. Any photographs taken while the camera is connected will be recorded directly to the computer hard disk.

4 Turn off the WT-4

When the **POWER LED** (pg.3) changes from green to yellow and then goes out, detach the USB cable.



✔ **Wireless Networking**

Compared with Ethernet networking, wireless networking may involve time delays between operations.

✔ **Ethernet Networks: Do Not Disconnect the Ethernet Cable**

Do not disconnect the Ethernet cable while the camera is on.

🔍 **Wireless Networks: Loss of Signal During Transfer**

A loss of signal may interrupt the connection while pictures are being transferred to **Camera Control Pro 2**. If the **POWER LED** on the **WT-4** is blinking (pg.2), **turn the WT-4 off and then on again**. Transfer will resume when the connection is re-established. **Do not turn the camera off**. Transfer can not be resumed once the camera has been turned off.

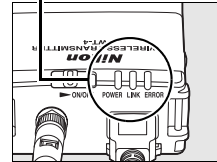
□ Network Status

The status of the link between the **host** and the WT-4 is shown by the status LEDs and by the display in the top level of the wireless transmitter menu.

The Status LEDs

The **POWER** LED lights when the WT-4 is on. Signal quality is shown by the **LINK** LED: the faster the LED blinks, the better the signal and the faster data can be transmitted. The **ERROR** LED blinks to show that an error has occurred.

Status LEDs

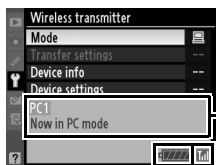


Status	POWER	LINK	ERROR
WT-4 off	● (off)	● (off)	● (off)
USB cable not connected	○ (on)	● (off)	● (off)
Connecting to host	○ (on)	○ (on)	● (off)
Waiting to send or sending data	○ (on)	⚡ (blinks)	● (off)
Connection error	⚡ (blinks)	● (off)	⚡ (blinks)
WT-4 hardware or battery malfunction	⚡ (blinks)	⚡ (blinks)	⚡ (blinks)

The Status Display


Network status can also be viewed in the top level of the wireless transmitter menu.

PC Mode / Controlling the Camera



Battery level: This icon shows five level of WT-4 battery level.

Status area: The status of the connection to the host. The host name is displayed in green when a connection is established. Any errors that prevent the camera from connecting to the host are also displayed here.

Signal strength: This icon shows wireless signal strength. It is displayed in red when no signal can be detected. For maximum signal strength, ensure a clear line of sight between the WT-4 antenna and the wireless LAN adapter or access point. A  icon is displayed when the WT-4 is connected via Ethernet.

Print Mode

Print mode allows you to print JPEG pictures taken with your camera from a printer connected to a network computer via the WT-4. The printer normally used with your computer is set as the printer which will be operated via the WT-4. To configure a different printer, conduct the following steps (to change the settings to a different printer, it is not necessary to use a USB cable to connect the camera to your computer).

The computer's OS settings will be applied for print quality and paper type at the time wireless transmission is configured. To change these settings, conduct step 4 for Macintosh; for Windows, change the OS printer settings before printing.

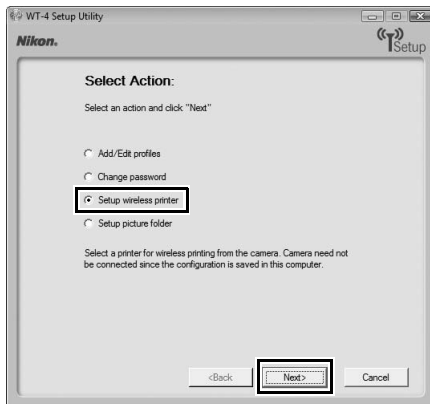
Copying Network Profiles to the Camera

- 1 Turn the computer on and start the WT-4 Setup Utility.
 - **Windows:** Double-click the [WT-4 Setup Utility] icon on the desktop
 - **Macintosh:** Click the [[WT-4WirelessSetup](#)] icon in the Dock.

2 The dialog shown below will be displayed; click [Next].

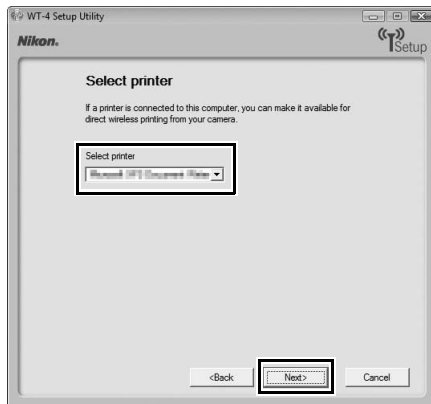


3 Select [Setup wireless printer] and click [Next].



4 Choose a printer and click [Next].

- **Windows:** Select a printer from the pull-down menu.

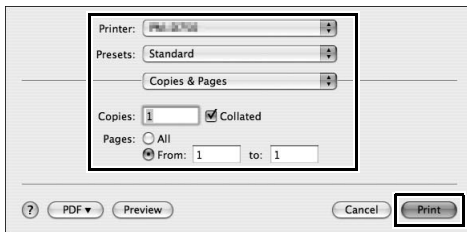


Print Mode / Copying Network Profiles to the Camera

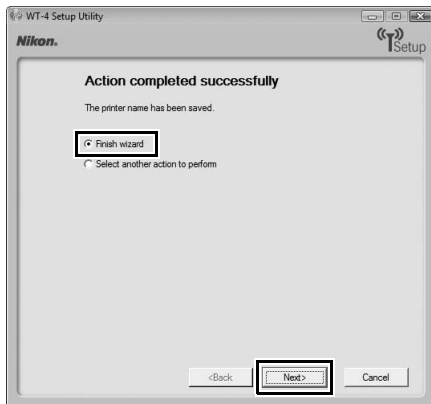
- **Macintosh:** Click **[Select Printer...]**.



The following dialog will be displayed; choose a printer and adjust printer settings. Click [Print] to return to the WT-4 setup utility.



5 Select [Finish wizard] and click [Next].



The network profile has now been copied to the camera.

Print Mode / Copying Network Profiles to the Camera

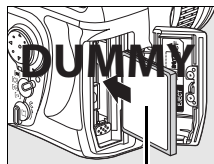
Printing Pictures

Before connecting the WT-4, select [MTP/PTP] for the [USB] option in the camera setup menu (pg.7) and confirm that the host computer is running and that the printer is on.

Print Mode / Printing Pictures

- 1 Turn the camera off and insert the memory card containing the pictures to be sent.

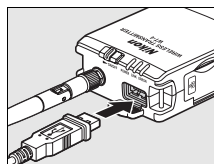
- If there are multiple card slots, insert the card into any slot.



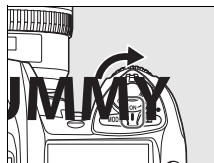
Front

To access the network via Ethernet, connect the Ethernet cable (pg.2). Note that wireless transfer is disabled while an Ethernet cable is connected. Disconnect the Ethernet cable before accessing a wireless network. Turn the **WT-4** off before connecting or disconnecting the Ethernet cable.

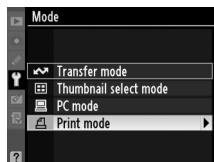
- 2 Open the **WT-4** USB connector cover and connect the USB cable from the WT-4 to the camera USB connector.



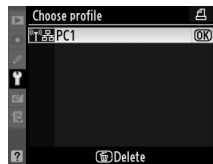
- 3 Turn the camera on.



- 4 Select [Print mode] for the [Wireless transmitter] > [Mode] option in the camera setup menu (pg.152).

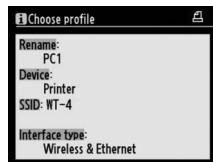


- 5** A list of available printer profiles will be displayed. **Highlight** the desired profile, then press **OK** to select and return to the top level of the wireless transmitter menu.



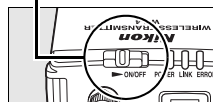
Viewing Profile Information

Press the camera **Info (?)** button to view information on the selected profile.

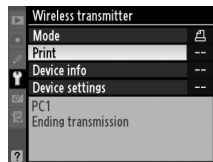


- 6** Turn on the WT-4.

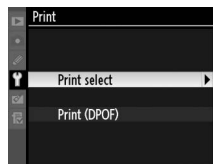
Power switch



- 7** Select [Print] in the top level of the [Wireless Transmitter] menu to connect to the printer. The status LEDs will light as a connection is negotiated with the printer.

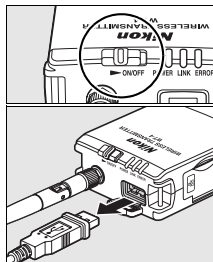


- 8** Print photographs from the [Print] menu as described in the camera manual.




9 Turn off the WT-4

When the **POWER LED** (pg.3) changes from green to yellow and then goes out, detach the USB cable.



Restrictions to Print Mode

- RAW images or TIFF images cannot be printed using the WT-4 print mode. To print RAW images and TIFF images, first send them to your computer, then print them using the ViewNX software supplied with your camera or other separately-sold software such as Capture NX.
- The Index print function cannot be used.
- The playback screen will not appear even if the camera's  button is pressed.

The Status LEDs

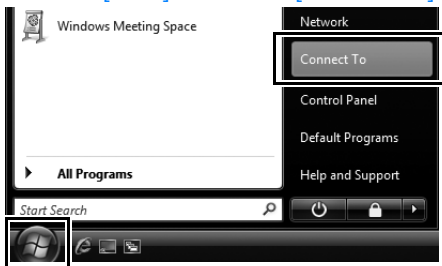
The **POWER LED** lights when the WT-4 is on. Signal quality is shown by the **LINK LED**: the faster the LED blinks, the better the signal and the faster data can be transmitted. **The ERROR LED blinks to show that an error has occurred.**

Status	POWER	LINK	ERROR
WT-4 off	● (off)	● (off)	● (off)
Connected to printer; pictures can be printed	○ (on)	✳ (blinks)	● (off)
Error connecting to printer	○ (on)	● (off)	✳ (blinks)
WT-4 hardware or battery malfunction	✳ (blinks)	✳ (blinks)	✳ (blinks)

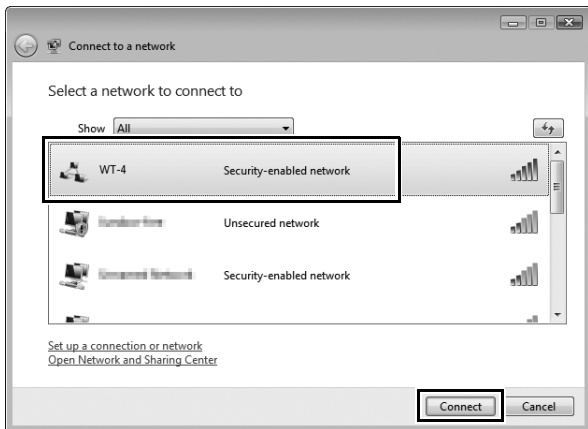
Using the Windows Vista Ad-hoc Connection

To use the Windows Vista ad-hoc connection, turn on the WT-4 and conduct the following steps on your computer.

1 Click the [Start] and select [Connect To].

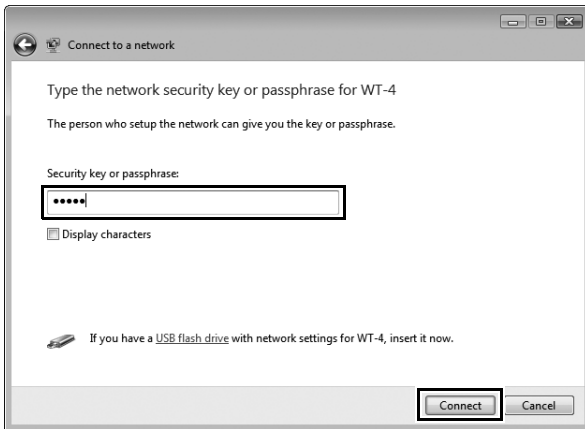


2 Select a preset network name and click [Connect].

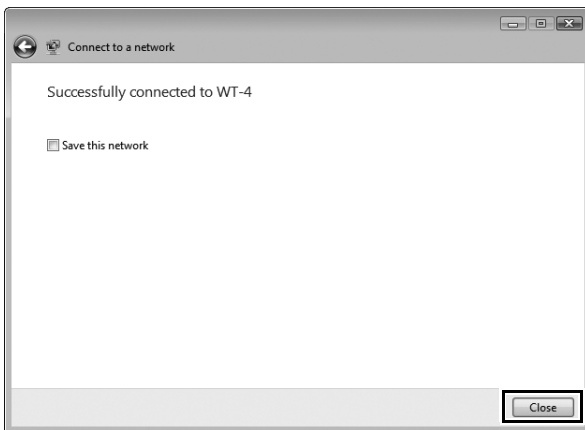


3 Enter the network security key and click [Connect].

Print Mode / Printing Pictures



4 Click [Close].



Operating the WT-4 for FTP

Follow the steps below to upload pictures to an ftp server over wireless or Ethernet networks.

1 Creating an ftp Server (pg.108)

- Windows Vista (pg.108)
 - Windows XP (pg.114)
 - Macintosh (pg.117)
-



2 Copying Network Profiles to the Camera (pg.119)

- Ad Hoc Networks (pg.119)
 - Infrastructure Networks (pg.129)
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3 Connecting to the FTP Server (pg.140)



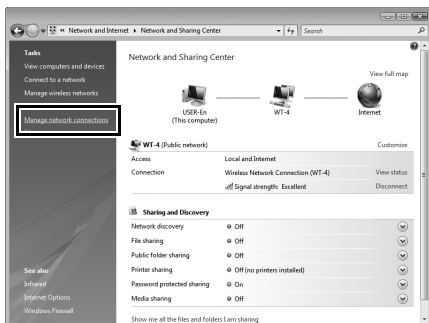
4 Uploading Images (pg.145)

Creating an ftp Server

The WT-4 can be used to upload pictures to ftp servers created using standard ftp services included with Windows Vista (32-bit Ultimate/Business/Enterprise editions), Windows XP Professional (Service Pack 1 or later), and Mac OS X (version 10.3.9 or version 10.4.10). Under Windows, Internet Information Services (IIS) are required to configure ftp servers (IIS is included in the standard install of Windows Vista Ultimate, Windows Vista Business, Windows Vista Enterprise, and Windows XP Professional; for information, contact Microsoft). Mac OS X versions 10.3.9 and 10.4.10 also support ftp services. Be sure to use characters supported by the WT-4 (pg.153) when specifying such settings as user ID, password, and folder names.

Windows Vista

- 1 Open the > [Network and Internet] > [Network and Sharing Center] control panel.
- 2 Select [Manage network connections].

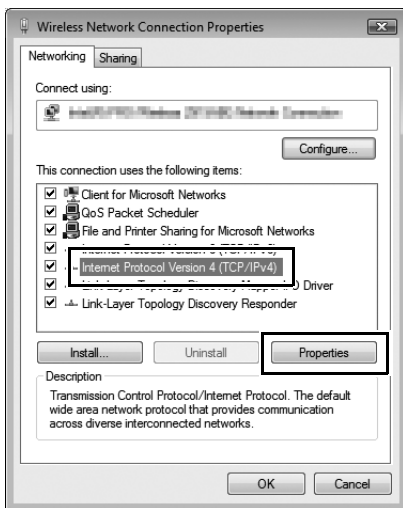


- 3 Right-click the [Wireless Network Connection] icon and select [Properties] from the menu that appears.



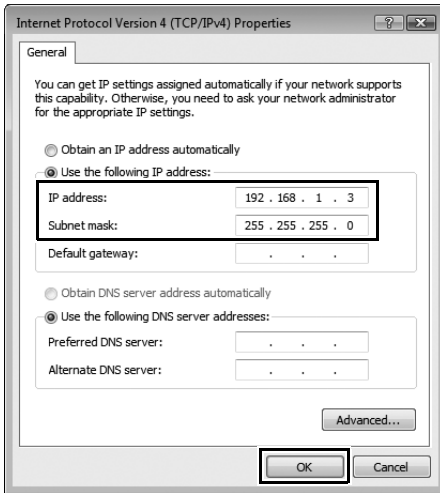
- 4 A "User Account Control" dialog will be displayed; click [Allow].

- 5 Select [Internet Protocol Version 4 (TCP/IPv4)] and click [Properties].



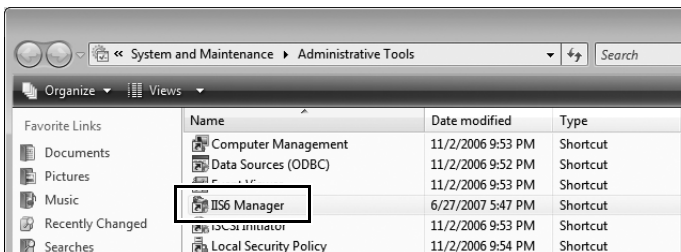
6 Enter an IP address and sub-net mask for the ftp server and click [OK].

Creating an ftp Server / Windows Vista



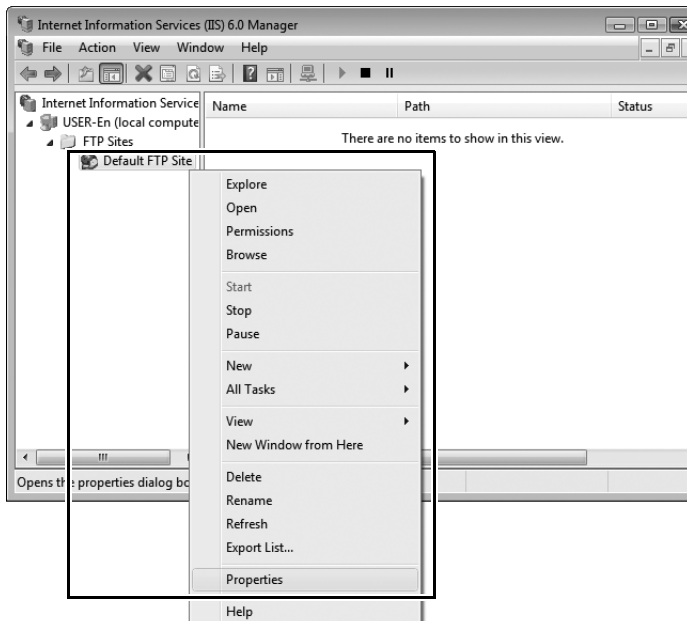
7 Go to the [System and Maintenance] > [Administrative Tools] control panel.

8 Double-click [IIS6 Manager].



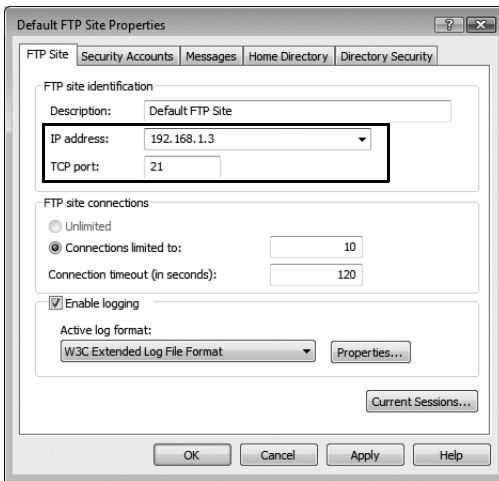
9 A "User Account Control" dialog will be displayed; click [Allow].

10 Right-click [Default FTP Site] and select [Properties] from the menu that appears.

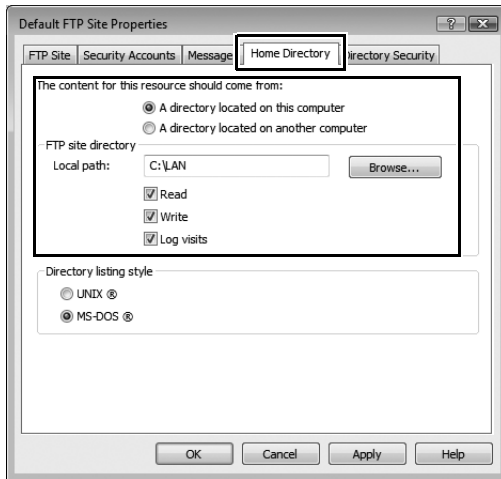


- 11** Select the IP address entered in Step 6 and enter a [TCP port] number. The port number is normally 21.

Creating an ftp Server / Windows Vista



- 12** Open the [Home Directory] tab and select [A directory located on this computer]. The root directory for images uploaded to the ftp server is listed in the [Local path] text box; choose a folder and select [Read], [Write], and [Log visits]. Click [OK] to close the properties dialog.



This completes ftp server setup. Proceed to “Copying Network Profiles to the Camera” (pg.119).

Windows XP

Creating an ftp Server / Windows XP

- 1 Open the [Control Panel] > [Network and Internet Settings] > [Network Connections] control panel.
- 2 Right-click the [Wireless Network Connection] icon and select [Properties] from the menu that appears.



- 3 Select [Internet Protocol (TCP/IP)] and click [Properties].

