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.

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.





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

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

0	👰 Conr	nect to a network		
	Select a	a network to conn	ect to	
	Sho	ow All	4 7	
	4	WT-4	Security-enabled network	Illee
		losion free	Unsecured network	lite.
	5	Couport Robust	Security-enabled network	lite.
	<u>Set up a c</u> Open Ne	connection or network twork and Sharing Cent	ter	
				Connect Cancel

\$00_WT-4_En.book Page 93 Friday, August 10, 2007 2:02 PM

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

Θ	P Connect to a network
	Type the network security key or passphrase for W1-4
-	The person who setup the network can give you the key or passphrase.
	Security key or passphrase:
	•••••
	Display characters
	If you have a USB flash drive with network settings for WT-4, insert it now.
	Connect Cancel

4 Click [Close].

		- • ×
\bigcirc	🗐 Connect to a network	
	Successfully connected to WT-4	
	Save this network	
		Close

PC Mode / Connecting to the Computer

Controlling the Camera

- 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.

P_	12	5	<u>F5.8</u>
SHOOT A	AF-S	rem P[(- <u>5</u> -)

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.

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3

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)

PC Mode / Controlling the Camera





The Status Display

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



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.

<u>Copying Network Profiles to the</u> <u>Camera</u>

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].

Nikon	etup Utility	(T) Setup
	Welcome to WT-4 Setup!	
	Before you begin, please make sure that your camera's battery is inserted and fully charged. The setup process will fail if the camera's battery runs out before completion.	
l	<beck need=""></beck>	Cancel

Print Mode / Copying Network Profiles to the Camera

3

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

WT-4 Set	up Utility	(T) Setup
	Select Action: Select an action and click "Next"	
	Add/Edt profiles Change password Setup wireless printer Setup vireless printer Setup picture folder Select a printer for wireless printing from the camera. Camera need not be connected since the configuration is saved in this computer.	
	-Back Ned>	Cancel

4 Choose a printer and click [Next].

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

Vikon.	(T) Setup
Select printer If a pinter is connected to this computer, you can make it available for direct wireless printing from your camera.	ır
Select printer	
<back< td=""><td>Cancel</td></back<>	Cancel

Print Mode / Copying Network Profiles to the Camera



000	WT-4 Setup Utility	
Nikon.		(TSetup
	Select printer	
	If a printer is connected to this computer, you can make it avai for direct wireless printing from your camera.	lable
	Select printer and set layout, paper, and print quality options f selected printers. Then, click "Print". (Clicking the "Print" butto here, makes no print)	or the n,
	Printer: 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.

Presets.	Stanuaru	×	
 	Copies & Pages	•	
Copies:	1 Collated		
Pages:	All From: 1 to: 1		

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Print Mode / Copying Network Profiles to the Camera

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

🖗 WT-4 S	etup Utility	
Nikon.		(T) Setup
	Action completed successfully	
	The printer name has been saved.	
	Finish wizard	
	C Select another action to perform	
	<back< td=""><td>lext> Cancel</td></back<>	lext> Cancel
1		

The network profile has now been copied 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.

- 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.



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.









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





1

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

Viewing Profile Information Press the camera Onn (?) button to view information on the selected profile.

6 Turn on the WT-4.

- 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.







Print select Print (DPOF)







Print Mode / Printing Pictures

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.

Intel 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)	ঞ্চ (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.



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

0	😰 Coni	nect to a network		
	Select	a network to conn	ect to	
	Sh	ow All	-	÷7
	4	WT-4	Security-enabled network	È llte.
	5	fundation from	Unsecured network	lite.
	5	Despeed Robust	Security-enabled network	llie.
				·
	<u>Set up a</u> Open Ne	connection or network twork and Sharing Cen	ter	
				Connect Cancel

Operating the WT-4 for Computer $\,105$

Print Mode / Printing Pictures

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

G	Connect to a network
	Type the network security key or passphrase for WT-4
	The person who setup the network can give you the key or passphrase.
	Security key or passphrase:
	Usplay characters
	If you have a USB flash drive with network settings for WT-4, insert it now.
	Connect Cancel

4 Click [Close].

Connect to a network	
Successfully connected to WT-4	
Save this network	
	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)

3 Connecting to the FTP Server (pg.140)

4 Uploading Images (pg.145)



Creating an ftp Server

Creating an ftp Server / Windows Vista

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

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



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

	Wir	eless Network Connection -4
all		Disable
		Connect / Disconnect
		Status
		Diagnose
		Bridge Connections
		Create Shortcut
		Delete
		Rename
		Properties



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

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

UVireless Network Connection Properties
Networking Sharing
Connect using:
🔮 biel/G/WO/Nations (MUNIC Retroit Complex
Configure
This connection uses the following items:
Image: Construct Scheduler I
Install Uninstall Properties
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel





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

internet Protocol Version 4 (TCP/IPv4) Properties							
General							
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
Obtain an IP address automatical	у						
O Use the following IP address:							
IP address:	192.168.1.3						
Subnet mask: 255 . 255 . 0							
Default gateway:	Default gateway:						
Obtain DNS server address autom	natically						
Use the following DNS server add	resses:						
Preferred DNS server:							
Alternate DNS server:	· · ·						
Advanced							
L	OK Cancel						

- 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.

Internet Information Services	(IIS) 6.0 Manager		L L L L L L L L L L L L L L L L L L L					
File Action View Win	dow Help		_ = × eat					
Internet Information Service	Name	Path	עם Status					
USER-En (local compute ETP Sites	There	e are no items to show in this view.	n f					
Default FTP Site	Default FTP Site		ਰ					
	Explore		Ser					
	Open		.ve					
	Permissions		r/					
	Browse		<u> </u>					
	Start		nd					
	Stop		0 M					
	Pause		V S/					
	New	+	'ist					
	All Tasks	•	Ψ.					
	View	•						
	New Window from Here							
Opens the properties dialog be	Delete							
Opens tr : properties dialog bc	Rename							
	Refresh							
	Export List							
(Properties							
	Help							



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

	Default FTP Site Pro	perties				? X
l	FTP Site Security	Accounts	Messages	Home Directory	Directory Securit	у
l	FTP site identific	ation				
	Description:	Defau	lt FTP Site			
Default FTP Site FTP Site Security Accounts Messages Home Directory Directory Security FTP site Description: Description: Default FTP Site IP address: 192.168.1.3 TCP port: 21 FTP site connections Unlimited @ Connection limited to: 10 Connection limeout (in seconds): 120 IV Enable logging Active log format: W3C Extended Log File Format Properties						
l	TCP port:	21				
	FTP site connect	ions				
	 Unlimited 					
	Onnections	limited to			10	
	Connection time	out (in se	conds):		120	
	Enable loggi	ng				
	Active log for	mat:				
	W3C Extend	ed Log File	Format	•	Properties	
					Course the	
					Current se	ssions
	<u></u>		ОК	Cancel	Apply	Help

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.

efault FTP Site Prope FTP Site Security Ac	counts Message Home Directory	? 💌
The content for this - FTP site directory Local path:	resource should come from: A directory located on this comput A directory located on another con C: LAN Read Write Log visits	er nputer Browse
Directory listing sty UNIX ® MS-DOS ®	le	
	OK Cancel	Apply Help

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

Windows XP

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.

Ĩ	Wireless Network Connection Connected, Firewalled
q	Disable
	View Available Wireless Networks
	Status
	Repair
	Bridge Connections
	Create Shortcut
	Delete
	Rename
l	Properties

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

Wirele	ss Network	Conne	ction P	ropert	ies	?:
General	Wireless Netw	orks A	dvanced			
Connect	using:					
89 i	opproximation of	interna 24	roes e	in i	Configu	re
This con	nection uses t	ne follow	ing items:			
23	AEGIS Protoc	ol (IEEE	- 802.1x) v	3.1.0.1		~
í.	WEAR TRANS	NR LIZCO	11533			
Ľ	Internet Proto	201110-	(I-)			~
<				100		~
In	stall	U	ninstall		Properti	es
Descri	otion					
Trans wide a acros	mission Contro area network p s diverse interc	Protoco rotocol ti onnecte	VInternet nat provid d network	Protoco les comr (s.	I. The defa nunication	ult

Creating an ftp Server / Windows XP

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