Windows XP

Nikon

Configuring the WT-4 for Upload to a Computer (Ad-hoc Mode)

This document provides basic instructions on configuring the WT-4 wireless transmitter and a Windows XP Professional SP2 computer for transmission over an ad-hoc (peer-to-peer) network consisting solely of the computer and WT-4.



Introduction

This section describes a simple wireless network consisting solely of the WT-4 and an computer, with no connections to other networks or devices. Follow the steps below to use the WT-4 in this type of network.

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1: Get Ready

Equipment

Ready the following:

- A WT-4 wireless transmitter
- A fully-charged EN-EL3e battery for the WT-4
- A Nikon D3 or D300 digital SLR camera
- A fully-charged battery for the camera (an EN-EL4a for the D3, a EN-EL3e for the D300)
- A computer with Windows XP Professional SP2, the WT-4 Setup Utility installed
- A memory card
- A USB cable
- Manuals for the above equipment

Network Settings

Note the IP addresses, encryption, and other settings that will be used in the wireless LAN. The following are intended as examples only.

- IP address for the WT-4: 192.168.1.4
- IP address for the computer 192.168.1.3
- Subnet mask: 255.255.255.0
- Network name (SSID): WT-4
- Communication mode: Ad hoc
- Channel: 1
- Authentication: open system
- Authentication: WEP64
- Encryption key: abc12
- Key Index: 1

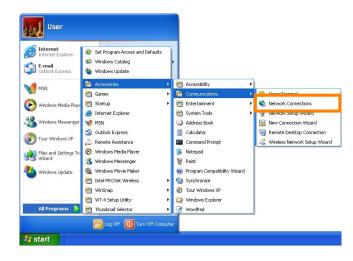
2: Assign the Computer an IP Address

Choose an address for the computer. The following IP address is intended as an example only.

- IP address: 192.168.1.3
- Subnet mask: 255.255.255.0

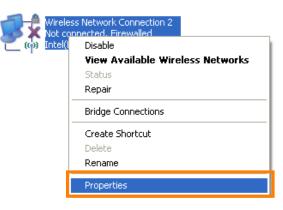
2 - 1

Click Start and select All Programs > Accessories > Communications > Network Connections.



2 - 2

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



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

🗕 Local Area Connection Properties 🛛 🔹 💽
General Authentication Advanced
Connect using:
B Configure
This connection uses the following items:
🗹 📮 QoS Packet Scheduler
Reference (IEEE 902.1m) + 3.1.0.1 Reference Protocol (TCP/IP)
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

2 - 4

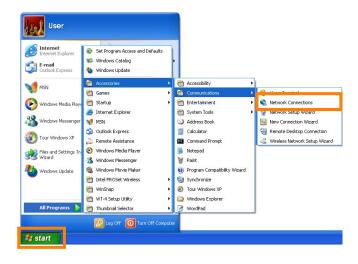
Select **Use the following IP address** and enter the IP address and subnet mask for the computer. Click **OK** to exit and then click **OK** to close the properties dialog. This completes the process of assigning an IP address to the computer.

Internet Protocol (TCP/IP) 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	ly			
• Use the following IP address: —				
IP address:	192.168.1.3			
Subnet mask:	255 . 255 . 255 . 0			
Default gateway:	· · ·			
O Obtain DNS server address autor	natically			
Output the following DNS server address of the server address	dresses:			
Preferred DNS server:				
Alternate DNS server:	· · ·			
Advanced				
OK Cancel				

3: Configure the Network

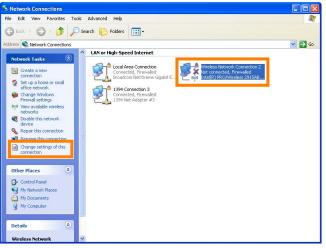
3 - 1

Click Start and select All Programs > Accessories > Communications > Network Connections.



3-2

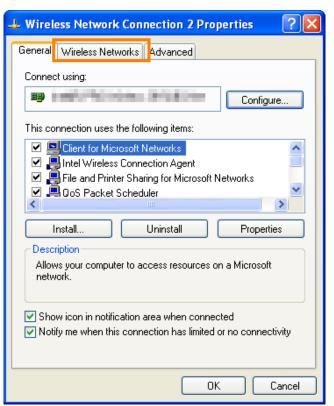
Select Wireless Network Connection and click Change settings of this connection.



3 - 3

Click the Wireless Networks tab.

If a third-party wireless connection program is installed, the **Wireless Networks** tab will not be displayed. Choose authentication, encryption, and a security key as described in the documentation for the wireless LAN adapter. The Wireless Networks tab may also not be displayed if Wireless Network Connection is disabled, or if **Wireless Zero Configuration** is active in the **Performance and Maintenance** > **Administrative Tools** > **Services** Control Panel.



Select Use Windows to configure my wireless network settings.

🕹 Wireless Network Connection 2 Properties 👘 🕐 🔀				
General Wireless Networks Advanced				
Use Windows to configure my wireless network settings				
Available networks: To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.				
View Wireless Networks				
Preferred networks: Automatically connect to available networks in the order listed below: Move up Move down				
Add Remove Properties Learn about <u>setting up wireless network</u> <u>configuration.</u>				
OK Cancel				

3 - 5

Click Add.

🕹 Wireless Network Connection 2 Properties 👘 🕐 🔀					
General Wireless Networks Advanced					
Use Windows to configure my wireless network settings					
Available networks:					
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.					
View Wireless Networks					
Preferred networks: Automatically connect to available networks in the order listed below: Move up Move down					
Add Remove Properties Learn about setting up wireless network configuration. Advanced					
OK Cancel					

After entering a network name and choosing security options as described below, select **This** is a computer-to-computer (ad hoc) network; wireless access points are not used and click OK. Do not select **The key is provided for me** automatically.

- Network name: Enter a name of up to 32 characters. The network in this example uses the identifier **WT-4**.
- Security type: Choose from Open, Shared.
- Data encryption: Choose from WEP and Disabled.
- Network key: If WEP is selected for Data encryption, enter a security key. To enable 64-bit encryption, enter a five-character ASCII or ten-digit hexadecimal key. To enable 128-bit encryption, enter a 13-character ASCII or 26-digit hexadecimal key. ASCII keys may contain letters, punctuation, and the numbers 0–9, hexadecimal keys the numbers 0–9 and the letters a, b, c, d, e, and f.
- Key index (advanced): If WEP is selected for Data encryption, choose a key index.

V	/ireless ne	twork proper	ties			? 🗙
ſ	Association	Authentication	Conne	ection		
	Network na	ime (SSID):	WT-4			
	-Wireless r	network key —				
	This netw	vork requires a ke	ey for th	e follo	wing:	
	Network	Authentication:	[Open	I	~
	Data enc	cryption:	[WEP		~
	Network	key:	••••	•		
	Confirm n	etwork key:	••••	•		
	Key index (advanced): 1					
	This is a computer-to-computer (ad hoc) network; wireless					
	access points are not used					
	OK Cancel					

3 - 7

Click **OK**. Network setup is now complete.

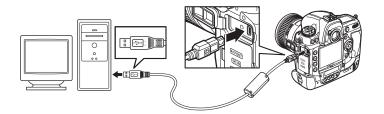
🕹 Wireless Network Connection 2 Properties 👘 🕐 🔀
General Wireless Networks Advanced
✓ Use Windows to configure my wireless network settings
Available networks:
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
View Wireless Networks
Preferred networks: Automatically connect to available networks in the order listed below:
WT-4 ad (Automatic) Move up
Move down
Add Remove Properties Learn about <u>setting up wireless network</u> Advanced
OK Cancel

4: Copy the Network Profile to the Camera

Use the WT-4 setup utility to copy the network profile to the camera. Before proceeding, make sure that **MTP/PTP** is selected for the **USB** option in the camera setup menu.

4 - 1

After starting the computer, use the supplied USB cable to connect the camera and turn the camera on.



4 - 2

Double-click the **WT-4 Setup Utility** icon on the desktop.



4 - 3

The dialog shown below will be displayed; click **Next**.



Select Add/Edit profiles and click Next.

🍄 W I -4 Setup L	липу	
Nikon.		(TSetup
9	Select Action:	
S	elect an action and click "Next"	
Ģ	Add/Edit profiles	
C	Change password	
0	Setup wireless printer	
0	Setup picture folder	
т	ne camera needs to be connected to Add or Edit profiles.	
	<back ca<="" td=""><td>ancel</td></back>	ancel

4 - 5

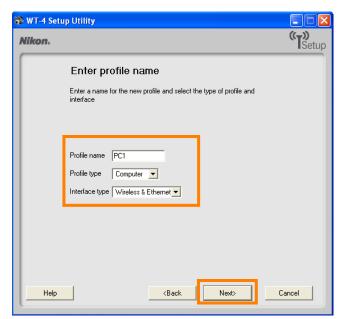
Select Add new profile and click Next.



4 - 6

Enter the following information and click **Next**:

- **Profile name**: Enter a name of up to 16 characters (in this example, **PC1**).
- Profile type: Choose Computer.
- Interface type: Choose Wireless & Ethernet for networks that include wireless, or Ethernet only for Ethernet-only networks.



Select Manual setup and click Next.

🍄 WT-4 Setup Utility	
Nikon.	(T) Setup
Select setup method	
Select whether to use manual or automatic setup to configure the IP and Wireless settings.	
C Automatic setup (recommended)	
Select network adaptor	
Intel(R) PR0/w	
 Manual setup (for advanced users) 	
<back next=""></back>	Cancel

4 - 8

Enter the following information and click **Next**.

- Network name (SSID): WT-4
- Communication mode: Ad hoc
- Channel: 1
- Authentication: None (open networks only)
- Encryption: WEP64
- Encryption key: abc12
- Key Index: 1

🕸 WT-4 Setu Nikon.	p Utility		C C C C C C C C C C C C C C C C C C C
	Wireless setti	ngs	
	Network name (SSID) Communication mode Channel Authentication Encryption Encryption key Key index	WT-4 Ad-hoc • 1 • Open • WEP64 • abc12 (5 characters) 1 •	
Help		<back next=""></back>	Cancel

- Enter the following information and click **Next**.
- IP address: 192.168.1.4
- Subnet mask: 255.255.255.0
- **Default gateway**: Remove the check from this option.
- **DNS Server**: Remove the check from this option.

Nikon.	p Utility	3
	TCP/IP settings	
	Obtain IP address automatically IP address 192.168.1.4 Subnet mask 255.255.255.0 Default gateway	
	<back next=""> Cancel</back>	

Choosing an IP Address

Be sure that the address for the WT-4 is different from the address used for the computer. The addresses for computer and WT-4 must however belong to the same class. In this example, we will use 192.168.1.3 for the computer and 192.168.1.4 for the WT-4.

4 - 10

Confirm that settings are correct and click **Next**.

🏶 WT-4 Setup Utility			
Nikon.			(T) Setup
Profile informa	ation		
Field	Value	•	
Profile name	PC1		
Profile type	Computer		
Interface type	Wireless & Ethernet		
	Wireless settings		
Network name (SSID)	WT-4		
Communication mode	Ad-hoc		
Channel	1		
Authentication	Open	_	
	<back next=""></back>		Cancel

Select Finish wizard and click Next.

🖻 WT-4 Setu	p Utility	
Nikon.		(TSetup
	Action completed successfully	
	The Profile has been saved	
	○ Finish wizard	
	C Select another action to perform	
	<back next=""> C</back>	ancel
L		

4 - 12

Turn the camera off and disconnect the USB cable. The network profile has now been copied to the camera.

5: Connect to the Computer

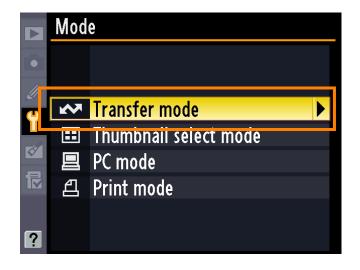
In this step, you will establish a wireless connection between the WT-4 and the computer. Before connecting the WT-4, select **MTP/PTP** for the **USB** option in the camera setup menu and confirm that the host computer is running and the user is logged in.

5 - 1

Insert a memory card in the camera, connect the WT-4, and turn the camera on.

5-2

Choose an option for the **Wireless transmitter** > **Mode** option in the camera setup menu.



5 - 3

A list of available connection profiles will be displayed. Highlight the desired profile and press \circledast .



Return to the wireless transmitter menu and turn the WT-4 on. The profile name will be highlighted in green when a connection is established.

This completes the process of connecting to the computer.

	Wireless transmitter	
	Mode	
//	Transfer settings	
<u> </u>	Device info	
	Device settings	
Ø 1	PC1	
?	№ 0000 ⊕00:00′00" ч	

Third-Party Security Software

Third-party security software with firewall support may block the ftp server port, preventing access to the computer. This can be avoided by setting the software to allow protocols send and receive access to TCP ports 15740 and UDP ports 5353. For more information, see the documentation for the software or firewall.