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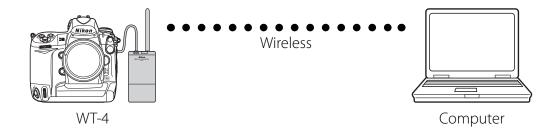
En Configuring the WT-4 for Upload to a Computer (Ad-hoc Mode)

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

WT-4 .... Wireless .... Computer

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.

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 Vista Ultimate/Business/Enterprise edition, 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

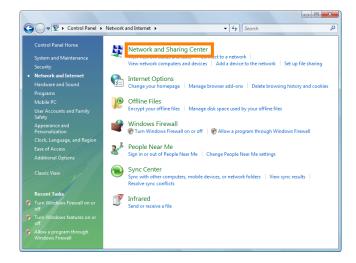# 2: Assign the Computer an IP Address

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

• **IP address**: 192.168.1.3
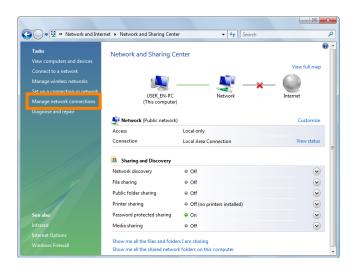
• **Subnet mask**: 255.255.255.0

2 - 1

Open the **Network and Internet** > **Network and Sharing Center** control panel.
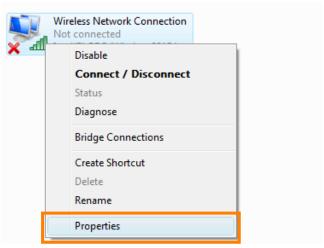

2 - 2

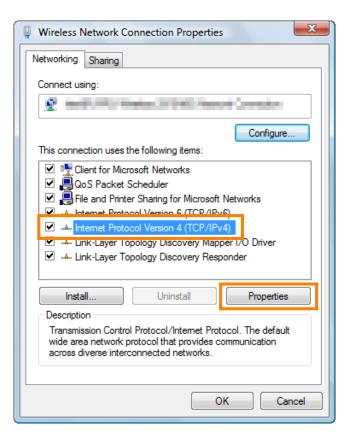Select **Manage network connections**.

2 - 3

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

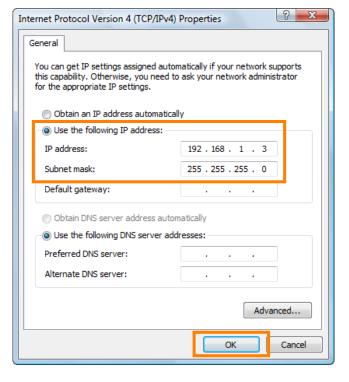A "User Account Control" dialog will be displayed; click **Allow**.

2 - 4

Select **Internet Protocol Version 4 (TCP/IP)** and click **Properties**.
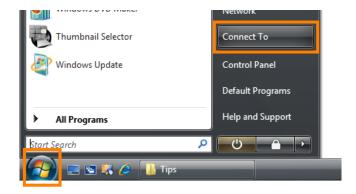

2 - 5

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.

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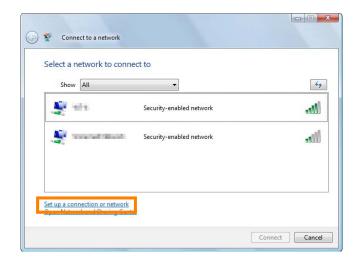# 3: Configure the Computer for Wireless Access

3 - 1

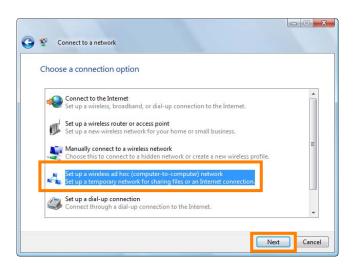Click the **Start** orb and select **Connect To**.
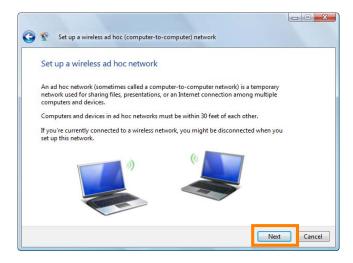
3 - 2

Click **Set up a connection or network**.

3 - 3

Select **Set up a wireless ad hoc (computer-to-computer) network** and click **Next**.

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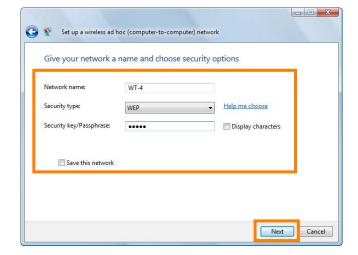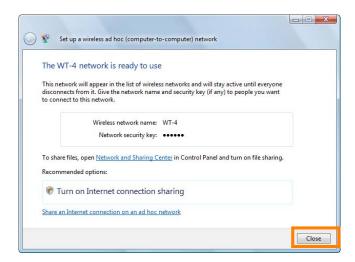Windows Vista

5

3 - 4

Click **Next**.

3 - 5

After entering a network name and choosing security options as described below, select **Save this network** and click **Next**.

- **Network name**: Enter a name of up to 32 characters. The network in this example uses the identifier **WT-4**.

- **Security type**: Choose from **WEP** and **No authentication (Open)**.

- **Security key/Passphrase**: If **WEP** is selected for **Security type**, 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.

- **Save this network**: Select this option to save settings for the new network.

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3 - 6

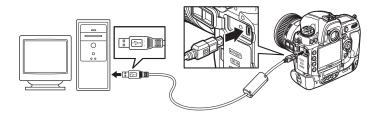Click **Close**. Network setup is now complete.

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.
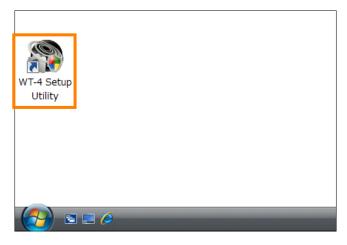
4 - 1

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

4 - 2

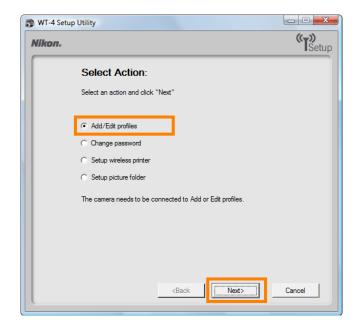Double-click the **WT-4 Setup Utility** icon on the desktop.

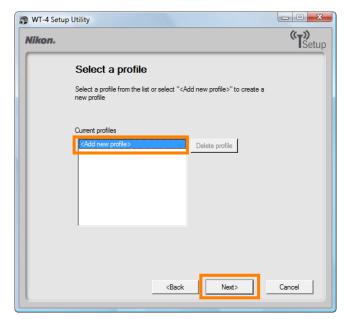### *4 - 3*

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

4 - 4

Select **Add/Edit profiles** and click **Next**.
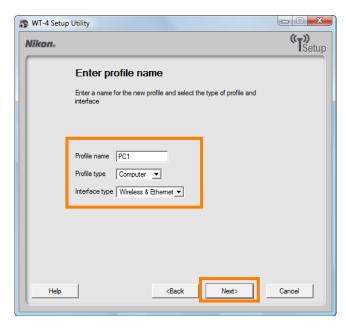
4 - 5
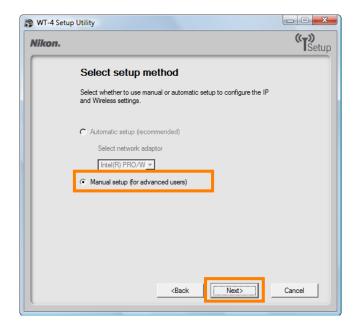
Select **Add new profile** and click **Next**.

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.

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Windows Vista

4 - 7

Select **Manual setup** and click **Next**.

4 - 8

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

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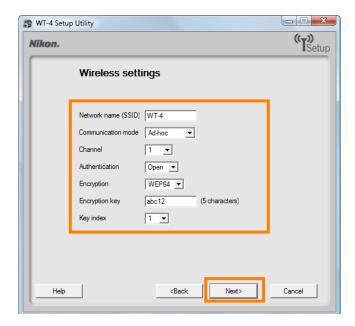- **Communication mode**: Ad hoc
- **Channel**: 1
- **Authentication**: None (open networks only)
- **Encryption**: WEP64
- **Encryption key**: abc12
- **Key Index**: 1

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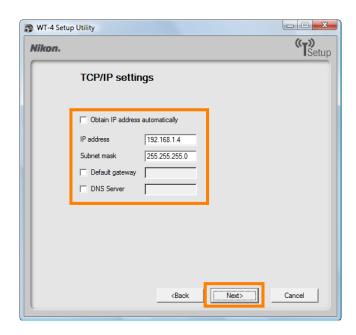
Windows Vista

4 - 9

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.
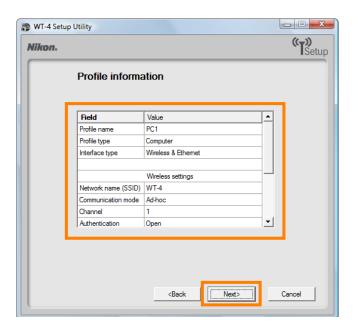- **DNS Server**: Remove the check from this option.
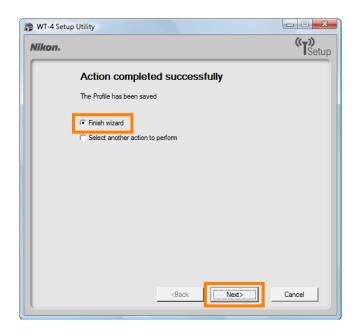

🖉 *Choosing an IP Address*

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**.

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Select **Finish wizard** and click **Next**.

4 - 12

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

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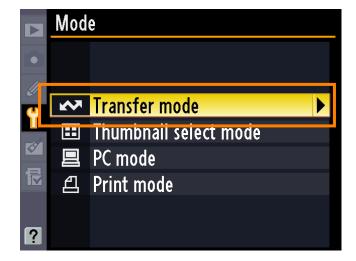
5: Connect to the Computer

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

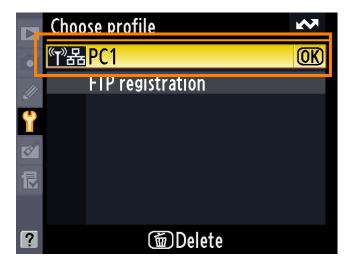Insert a memory card in the camera, connect the WT-4, and turn the camera on.

5 - 2

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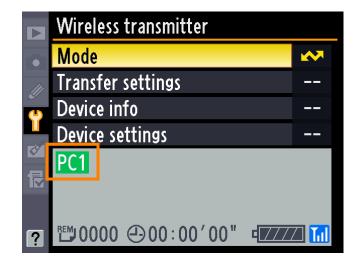

5 - 3

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

5 - 4

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.

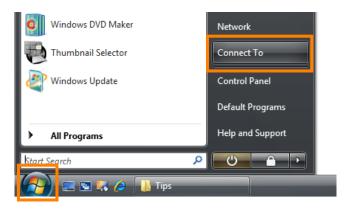This completes the process of connecting to the computer.

✎ Unable to Connect

If "Connecting to network" is displayed for an extended period without a network connection being established, the computer may have terminated its connection to the network. Turn the WT-4 on and follow the steps below on the computer.
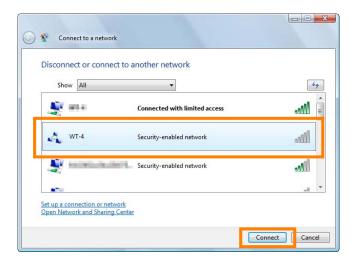
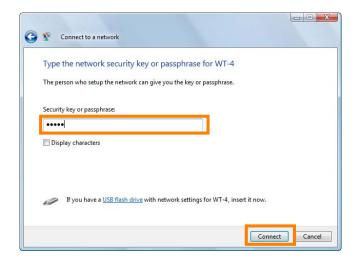### 1

Click the "Start" orb and select **Connect To**.

2

Select the network name (SSID) for the WT-4 and click **Connect**.

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Windows Vista

3

Enter the network security key and click **Connect**.

4

Click **Close**.

🖉 **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.

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