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Configuring the Network

This section describes how to create ad-hoc and infrastructure networks under Windows Vista, Windows XP, and Mac OS X.

Windows Vista		
	Ad hoc Network	pg.16
	Infrastructure Network	pg.20
Windows XP		
	Ad hoc Network	pg.25
	Infrastructure Network	pg.31
Macintosh		
	Ad hoc Network	pg.37
	Infrastructure Network	pg.41

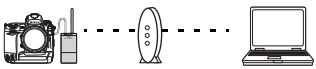
Connecting to Existing Wireless LANs

The WT-4 can also be used to connect to existing wireless LANs. Switch to the existing network after creating a new network for use with the WT-4.

Wireless Networks: Infrastructure Versus Ad-hoc

Wireless networks may be either infrastructure or ad-hoc.

- **Infrastructure**: Connection is via a wireless LAN access point.
- **Ad-hoc**: A peer-to-peer wireless network consisting solely of the WT-4 and the host.



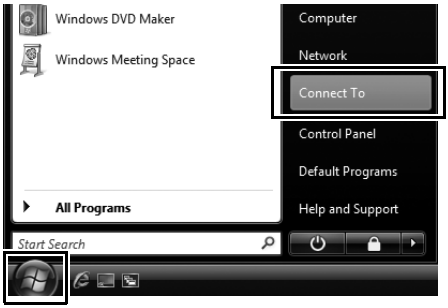
WT-4 Wireless LAN access point Host

WT-4 Host

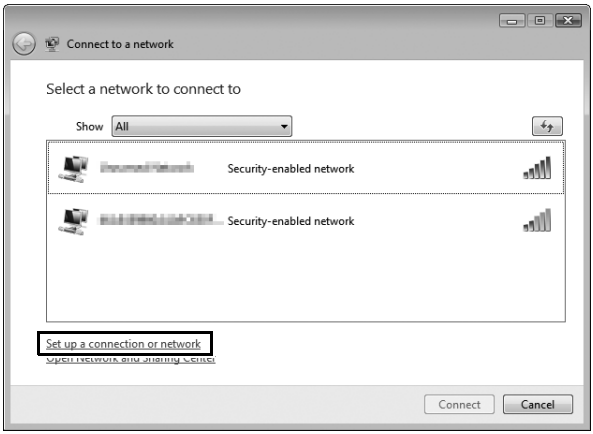
Windows Vista

❑ Creating an Ad Hoc Network

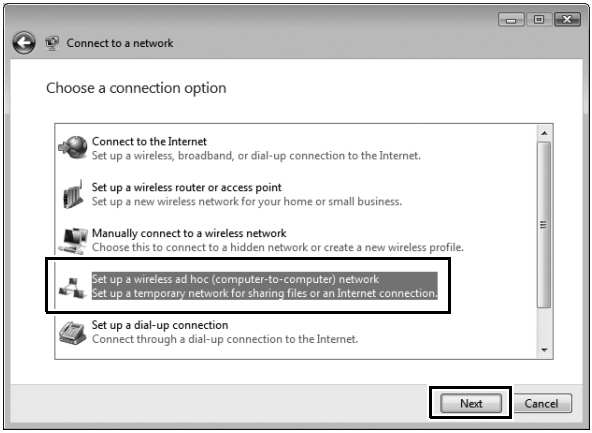
1 Click the [Start] and select [Connect To].



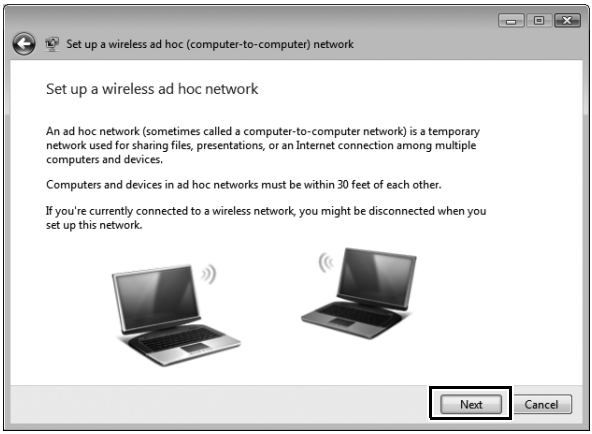
2 Click [Set up a connection or network].



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

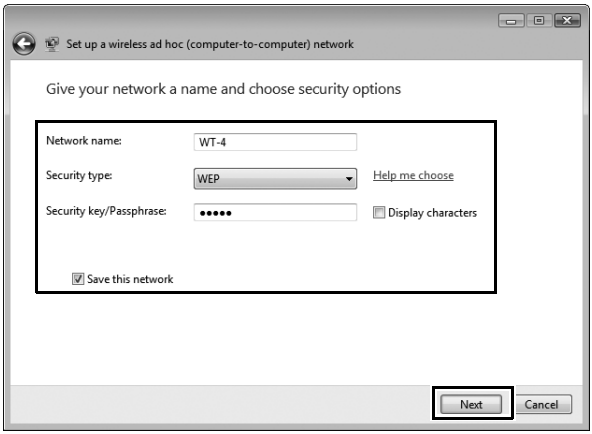


4 Click [Next].

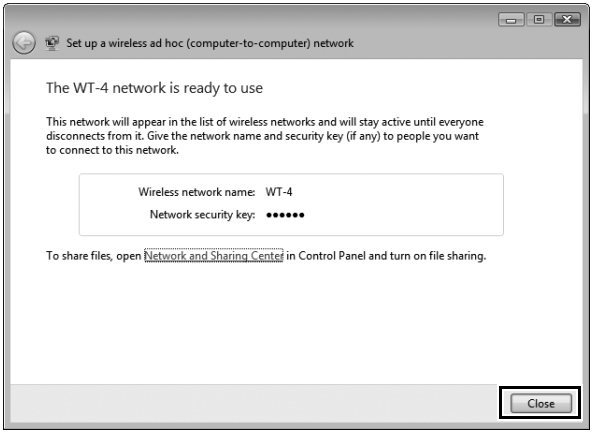


5 After entering a network name and choosing security options as described below, select [Save this network] and click [Next].

- **Network name**: Enter a name of up to 32 characters.
- **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.



6 Click [Close].



Network setup is now complete. Proceed to "Operating the WT-4 for Computer" (pg.47), "Operating the WT-4 for FTP" (pg.107).

❑ Connecting to an Infrastructure Network

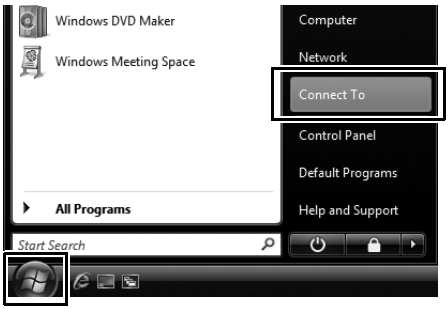
Procedures for connecting your computer to a wireless LAN access point are described here.

Configuring the Wireless LAN Access Point

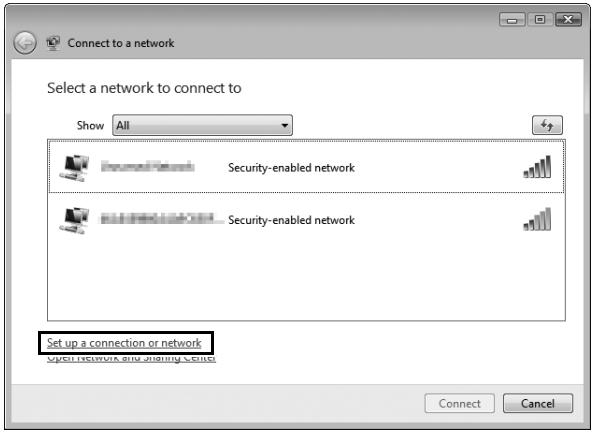
Following the instructions in the manual for the wireless LAN access point, choose a network name (SS-ID), authentication, encryption, security key, and key index.

Configuring the Host

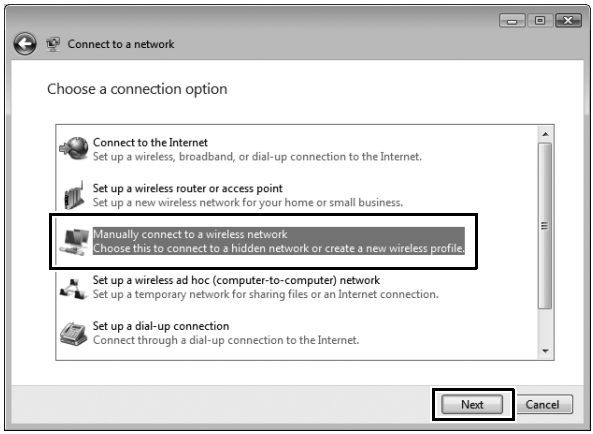
1 Click the [Start] orb and select [Connect To].



2 Click [Set up a connection or network].



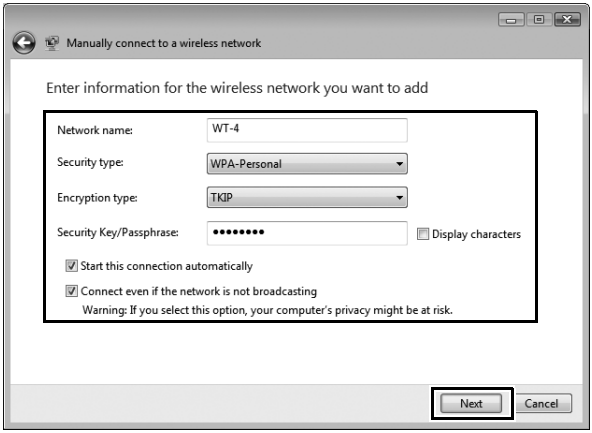
3 Select [Manually connect to a wireless network] and click [Next].



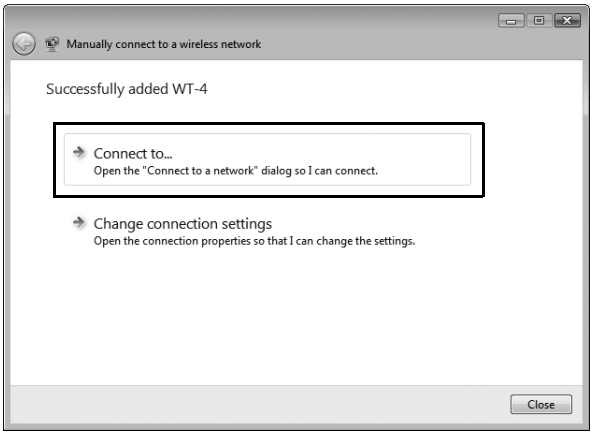
If a [Manually connetct to a wireless network] is not displayed, install the necessary driver software as described in the documentation for the wireless LAN adapter.

4 After entering a network name and choosing security options to match those selected for the wireless LAN access point, select [Save this network] and click [Next].

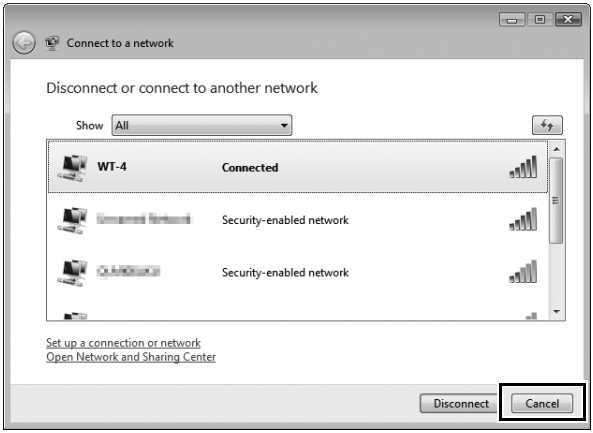
- **Network name**: Enter a name of up to 32 characters.
- **Security type**: Choose from [No authentication (Open)], [WEP], [WPA-Personal], and [WPA2-Personal]. [WPA-Enterprise], [WPA2-Enterprise], and [802.1x] can not be used with the WT-4.
- **Encryption type**: The type of encryption available depends on the options selected for [Security type]:
  - ❏ **None (open system)**: [None]
  - ❏ **WEP**: [WEP]
  - ❏ **WPA, WPA2**: [TKIP], [AES]
- **Security key/passphrase**: If [WEP] is selected for [Security type], enter a 5- or 13-character ASCII key or 10- or 26-digit hexadecimal key. Entering a five-character ASCII or ten-digit hexadecimal key enables 64-bit encryption, a 13-character ASCII or 26-digit hexadecimal key 128-bit encryption. 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. If [TKIP] or [AES] is selected for [Security type], enter an ASCII key of 8 to 63 characters or a 64-digit hexadecimal key.



5 Click [Connect to…].



6 Confirm that [Connected] appears next to the network name entered in Step 4 and click [Cancel].



Network setup is now complete. Proceed to "Operating the WT-4 for Computer" (pg.47), "Operating the WT-4 for FTP" (pg.107).

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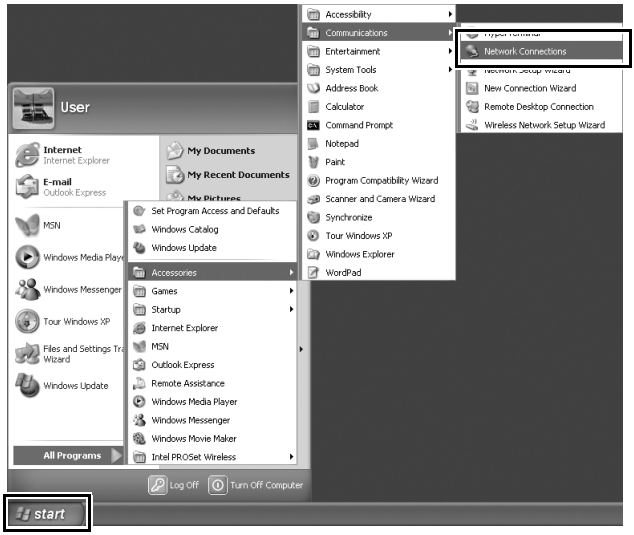
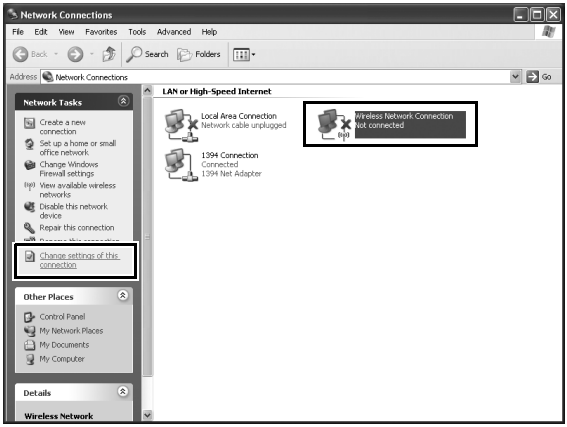
Windows XP

❑ Creating an Ad Hoc Network

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

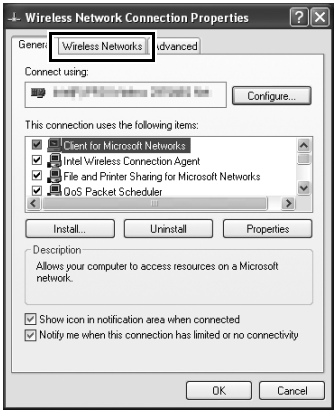


2 Select [Wireless Network Connection] and click [Change settings of this connection].



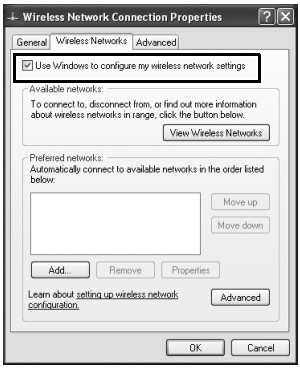
If a [Wireless Network Connection] icon is not displayed, install the necessary driver software as described in the documentation for the wireless LAN adapter.

3 Click the [Wireless Networks] tab.

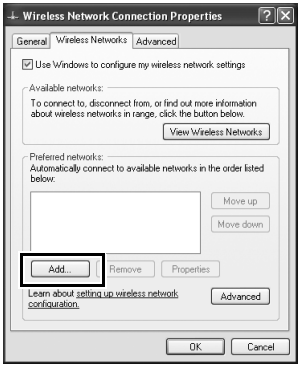


If a third-party wireless connection program is installed, the [Wireless Networks] tab will not be displayed. Choose authentication, encryption, and a security key as described in the documentation for the wireless LAN adapter. Make a note of the security key, as it will be required when setting up the camera.

4 Select [Use Windows to configure my wireless network settings].

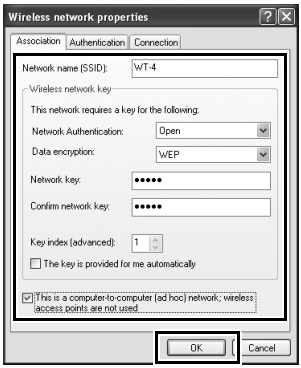


5 Click [Add].

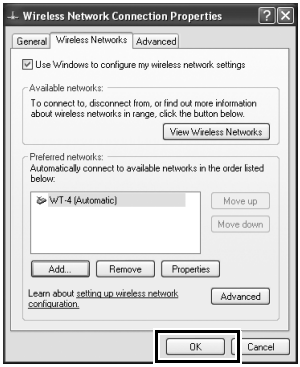

Wireless Network Connection Properties
General
Wireless Networks
Advanced
Use Windows to configure my wireless network settings
Available networks:
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
View Wireless Networks
Preferred networks:
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

6 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 (SSID)**: Enter a name of up to 32 characters.
- **Network Authentication**: Choose from [Open] and [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.



7 Click [OK].



Network setup is now complete. Proceed to "Operating the WT-4 for Computer" (pg.47), "Operating the WT-4 for FTP" (pg.107).

❑ Connecting to an Infrastructure Network

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Configuring the Wireless LAN Access Point

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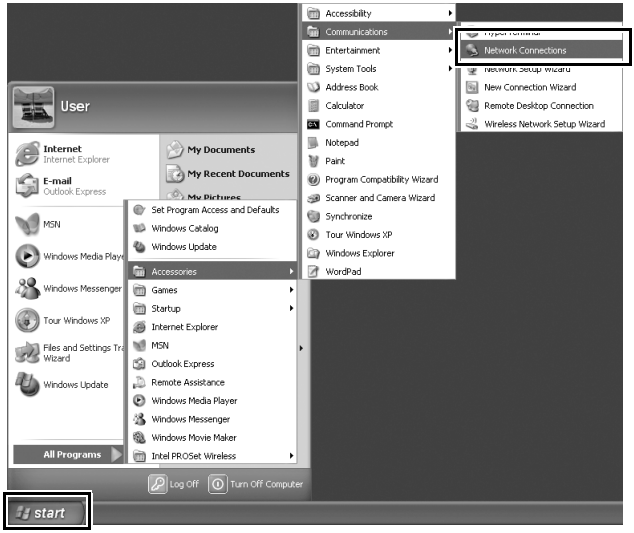
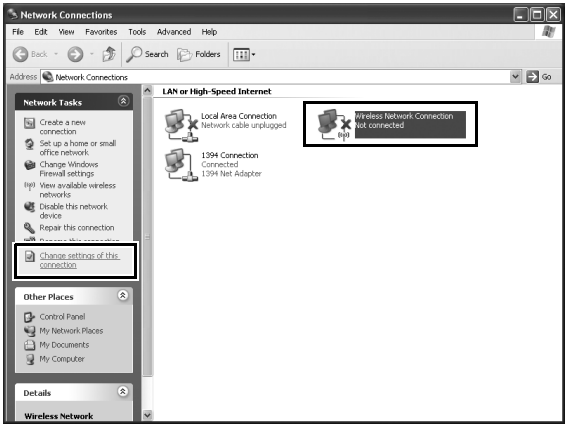
Configuring the Host

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

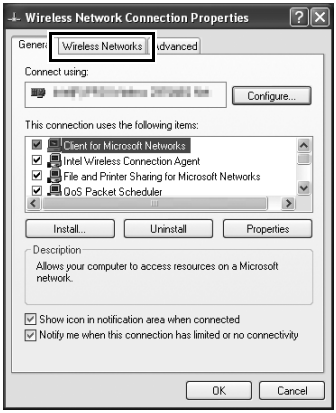


2 Select [Wireless Network Connection] and click [Change settings of this connection].



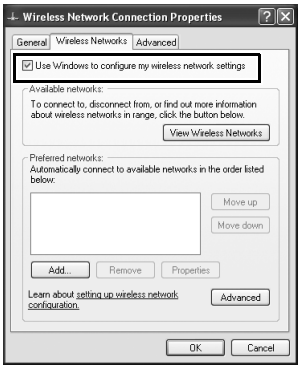
If a [Wireless Network Connection] icon is not displayed, install the necessary driver software as described in the documentation for the wireless LAN adapter.

3 Click the [Wireless Networks] tab.

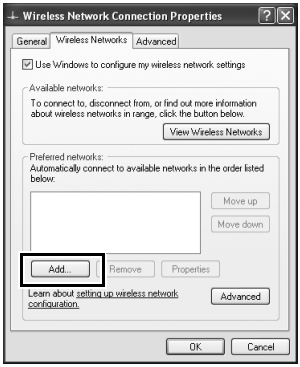


If a third-party wireless connection program is installed, the [Wireless Networks] tab will not be displayed. Choose authentication, encryption, and a security key as described in the documentation for the wireless LAN adapter. Make a note of the security key, as it will be required when setting up the camera.

4 Select [Use Windows to configure my wireless network settings].



5 Click [Add].


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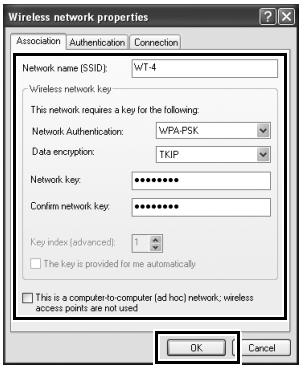
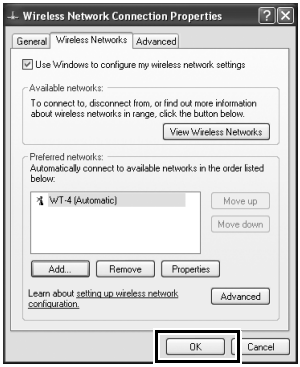
Use Windows to configure my wireless network settings
Available networks:
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
View Wireless Networks
Preferred networks:
Automatically connect to available networks in the order listed below: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

6 After entering a network name and choosing security options to match those selected for the wireless LAN access point, remove the check from [This is a computer-to-computer (ad hoc) network; wireless access points are not used] and click [OK].

- **Network name (SSID)**: Enter a name of up to 32 characters.
- **Network Authentication**: Choose from [Open], [Shared], [WPA], and [WPA-PSK].
- **Data encryption**: The type of encryption available depends on the options selected for [Network Authentication]:
  - ❏ **Open, Shared**: [WEP], [Disabled]
  - ❏ **WPA, WPA-PSK**: [TKIP], [AES]
- **Network key**: If [WEP] is selected for [Data encryption], enter a 5- or 13-character ASCII key or 10- or 26-digit hexadecimal key. Entering a five-character ASCII or ten-digit hexadecimal key enables 64-bit encryption, a 13-character ASCII or 26-digit hexadecimal key 128-bit encryption. 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. If [TKIP] or [AES] is selected for [Data encryption], enter an ASCII key of 8 to 63 characters or a 64-digit hexadecimal key.



7 Click [OK].



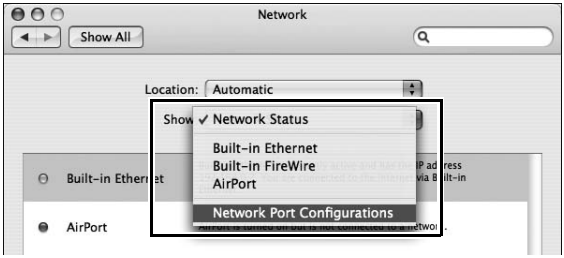
Network setup is now complete. Proceed to "Operating the WT-4 for Computer" (pg.47), "Operating the WT-4 for FTP" (pg.107).

Macintosh

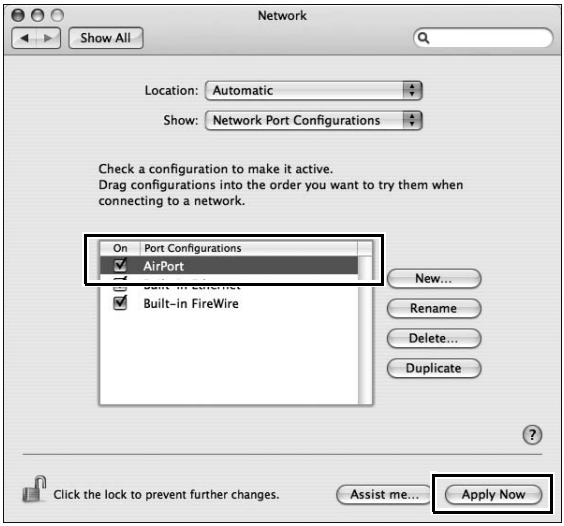
❑ Creating an Ad Hoc Network

1 Open [System Preferences] and click [Network].

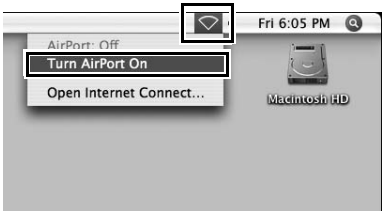
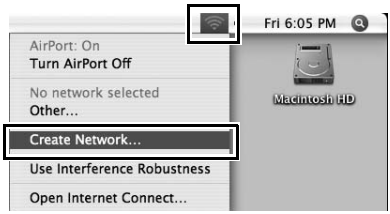
2 Choose [Network Port Configurations] from the [Show] menu.



3 Enable [AirPort], drag it to the top of the list, and click [Apply Now].



4 Click the AirPort status icon in the menu bar and select [Turn AirPort On].



5 Click the AirPort status icon in the menu bar and select [Create Network...].