# **Configuring the Network**

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

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Configuring the Network

#### **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.





Host

Wireless WT-4 LAN access point

• Ad-hoc: A peer-to-peer wireless network consisting solely of the WT-4 and the host.



WT-4

Host

## **Windows Vista**

### Creating an Ad Hoc Network



#### 2 Click [Set up a connection or network].

Some to a network	
Select a network to connect to	
Show All	<b>4</b> 7
Security-enabled network	lte.
Security-enabled network	line.
Set up a connection or network	
Connect	Cancel

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

G	變 Connect to a network	- • ×
	Choose a connection option	
	Connect to the Internet Set up a wireless, broadband, or dial-up connection to the Internet.	
	Set up a wireless router or access point Set up a new wireless network for your home or small business.	
	Manually connect to a wireless network Choose this to connect to a hidden network or create a new wireless profile.	E
	Set up a wireless ad hoc (computer-to-computer) network	
	Set up a dial-up connection Connect through a dial-up connection to the Internet.	-
	Next	Cancel

### 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.

		Provide
Network name:	WT-4	
Security type:	WEP 💌	Help me choose
Security key/Passphrase:	•••••	Display characters
☑ Save this network		

# 6 Click [Close].

		- • ×
$\bigcirc$	Set up a wireless ad hoc (computer-to-computer) network	
	The WT-4 network is ready to use This network will appear in the list of wireless networks and will stay active until everyone disconnects from it. Give the network name and security key (if any) to people you want to connect to this network.	
	Wireless network name: WT-4 Network security key:	
	To share files, open Network and Sharing Center in Control Panel and turn on file sharing.	
		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**



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### 2 Click [Set up a connection or network].

		- • ×
$\bigcirc$	豎 Connect to a network	
	Select a network to connect to	
	Show All	<b>4</b> 7
	Security-enabled network	llte.
	Security-enabled network	lite.
	Set up a connection or network	
	Connect	Cancel

# **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.

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- 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.

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-(1

👰 Manually connect to a wir	eless network	
Enter information for t	he wireless network you want to	add
Network name:	WT-4	
Security type:	WPA-Personal •	
Encryption type:	ТКІР	
Security Key/Passphrase:	•••••	Display characters
V Start this connection a	utomatically	
Connect even if the net Warning: If you select	twork is not broadcasting this option, your computer's privacy might	be at risk.

Next

Cancel

5 Click [Connect to...].

💭 🕸 Manually connect to a wireless network	
Successfully added WT-4	
Connect to Open the "Connect to a network" dialog so I can connect.	
Change connection settings Open the connection properties so that I can change the settings.	
	Close

Configuring the Network / Windows Vista / Connecting to an Infrastructure

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

Connect to a network  Disconnect or connect to  Show All	another network	L	- U ×
WT-4	Connected		â lle
🗶 Granet Retard	Security-enabled network		
Svenna	Security-enabled network		للته
Set up a connection or network Open Network and Sharing Center	21		
		Disconnect	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**

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









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





#### Click the [Wireless Networks] tab.

- Wireless Network Connection Properties 🛛 🕐 🗙
Genera Wireless Networks dvanced
Connect using:
Configure
This connection uses the following items:
Present for Microsoft Networks      Present for Microsoft Networks      Present of Printer Sharing for Microsoft Networks      O Os Packet Scheduler      Soft
Install Uninstall Properties
Allows your computer to access resources on a Microsoft network.
$\overrightarrow{v}$ Show icon in notification area when connected $\overleftarrow{v}$ Notify me when this connection has limited or no connectivity
OK Cancel

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].

🕂 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
Prefered network:     Automatically connect to available networks in the order listed     below     Move up     Move down
Add Remove Properties Learn about gating up wireless network Advanced configuration
OK Cancel

Configuring the Network / Windows XP / Creating an Ad Hoc Network

5 Click [Add].

neral Wireless Networks	Advanced
] Use Windows to configure	my wireless network settings
Available networks:	
To connect to, disconnect I about wireless networks in r	rom, or find out more information ange, click the button below.
	View Wireless Networks
Preferred networks: Automatically connect to av	ailable networks in the order lister
Preferred networks: Automatically connect to av below:	ailable networks in the order listed
Preferred networks: Automatically connect to av below: Add	Hove up



- 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 fivecharacter ASCII or ten-digit hexadecimal key. To enable 128bit 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.

١	Wireless network properties				
ſ	Association	Authentication	Connection		
	Network na	ame (SSID):	WT-4		
	Wireless network key				
	This network requires a key for the following:				
	Network Authentication:		Open 💌		
	Data end	cryption:	WEP 💌		
	Network	key:	•••••		
	Confirm network key: Key index (advanced):		•••••		
			1		
			me automatically		
	This is a computer to computer (ad hoc) network, wireless     access points are not used     OK (     Cancel				



Configuring the Network / Windows XP / Creating an Ad Hoc Network

oneral 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.			
Preferred networks: Automatically connect to av below:	ailable networks in the order listed		
Preferred networks: Automatically connect to av below:	ailable networks in the order listed		
Preferred networks: Automatically connect to av below: WT-4 (Automatic)	ailable networks in the order listed		
Preferred networks: Automatically connect to av below: WT-4 (Automatic)	eilable networks in the order listed		
Preferred networks: Automatically connect to av below: WT-4 (Automatic) Add Remov	allable networks in the order listed Move up Move down e Properties		

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**

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









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





#### Click the [Wireless Networks] tab.

- Wireless Network Connection Properties 🛛 🔋 🗙
Genera Wireless Networks dvanced
Connect using:
Configure
This connection uses the following items:
Install Uninstall Properties
Allows your computer to access resources on a Microsoft network.
✓ Show icon in notification area when connected ✓ Notify me when this connection has limited or no connectivity
OK Cancel

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].

+ 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
Prefered networks: Automatically connect to available networks in the order lated balow: Move up Move down			
Add Remove Properties			
Learn about <u>setting up wireless network</u> Advanced			
OK Cancel			



5 Click [Add].

eral Wireless Networks A	dvanced	
Use Windows to configure n	ny 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 Network:	
	Move up Move down	

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- 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.

ssociation Authentication C	Connection		
letwork name (SSID):	wT-4		
Wireless network key			
This network requires a key for the following:			
Network Authentication:	WPA-PSK	*	
Data encryption:	TKIP	*	
Network key:	•••••		
Confirm network key:	•••••		
Key index (advanced): 1	*		
The key is provided for me automatically This is a computer-to-computer (ad hoc) network; wireless access points are not used			

Configuring the Network / Windows XP / Connecting to an Infrastructure

Wireless Network Connec	tion Properties		
eneral Wireless Networks Ad	vanced		
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		
🐒 WT-4 (Automatic)	Move up		
	Move down		
Add Remove	Properties		

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



# <u>Macintosh</u>

4

### **Creating an Ad Hoc Network**



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



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

000	Network	
Show All		٩
Loca	tion: Automatic	
S	how: Network Port Configuratio	ons 🛟
Check a con Drag config connecting i On Port	figuration to make it active. arations into the order you want t to a network.	New Rename Delete Duplicate
		0
Click the lock to prev	ent further changes.	sist me (Apply Now)

Configuring the Network / Macintosh / Creating an Ad Hoc Network

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...].



