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This manual is for both BL-C1A (Wired Type) and BL-C20A (Wireless/Wired Type). Available features and operations are different in part depending on the model. Read this manual carefully and use the Network Camera properly. (The model no. is indicated on the upper left of the front of the main unit.)

Trademarks

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Abbreviations

- UPnP is the abbreviation for "Universal Plug and Play".
- "Network Camera" is called "Camera" in this manual.
- "Setup CD-ROM" is called "CD-ROM" in this manual.

The Panasonic Network Camera support website "http://panasonic.co.jp/pcc/ products/en/netwkcam/" includes various technical information in addition to the contents in this troubleshooting section. Access the website if this troubleshooting does not solve your problem.

Indicator Display Troubleshooting

Problem	Cause and Remedy				
The indicator	 The Ethernet cable is not connected properly. 				
lights or blinks orange.	ightarrow Connect the Ethernet cable properly.				
_	 The PC, the Ethernet hub or router is not working. 				
	ightarrow Confirm that PC, Ethernet hub and router are working.				
	• [For BL-C20A] The switch on the side of the camera is set to WIRELESS when trying to connect in wired mode, or to WIRED when trying to connect in wireless mode.				
	ightarrow Set the switch to the corresponding mode.				
	 [For BL-C20A] The wireless settings do not match those of the router. 				
	→ Set the same SSID, Communication mode and WEP as those of the router.				
The indicator	 The camera is turned off when updating firmware. 				
continues blinking orange.	→ If you access the camera using a web browser, the Update Firmware page will be displayed. Update the firmware following the procedure (see page 100 of the Operating Instructions on the CD-ROM). If you fail to update the firmware, see page 17.				
The indicator	 The router on your network is turned off. 				
continues blinking orange	ightarrow Turn the router on, and wait until the ADSL line is connected.				
(2-second interval).	 An error has occurred in UPnP[™] port forwarding. 				
	→ Set up the camera again in [Automatic Setup] using the Setup Program following the instructions in Getting Started.				

Problem	Cause and Remedy
The indicator	Automatic setup is not complete.
continues blinking green.	→ Complete the setup following the instructions in Getting Started.
	 The camera did not receive an IP address from the DHCP server.
	→ When setting [Automatic Setup] or [DHCP Setup], the camera may not be assigned an IP address due to network failures. Ask your ISP or network administrator for more information.
The indicator	The indicator display is disabled.
does not light up.	→ Check if the indicator control is disabled (see page 96 of the Operating Instructions on the CD-ROM).
	 Confirm that the standard AC adaptor (Order No. PQLV206Y) is being used.
The indicator	The camera may be malfunctioning.
continues blinking red.	→ If you cannot access the camera, the camera may be malfunctioning. Call our customer call center.
[For BL-C20A]	 Signal strength is weak.
The indicator continues blinking orange during wireless communication.	→ Change the location of the camera or remove any obstacle around the camera.
	 Only the MAC addresses for the camera's wireless module are set.
	→ To enable the MAC address filtering feature on the wireless router, enter both the MAC addresses for the camera itself and the camera's wireless module.

Camera Setup Troubleshooting

<u>Note</u>

If you are experiencing any problems, it is recommended that you temporarily disable all firewall, pop-up killer, and virus detection software. Once the problem is identified and corrected, you can restart the Setup Program.

Problem	Cause and Remedy				
DynamicDNS registration fails.	 The router-connected PC has failed to access the Internet. → Refer to the router's manual and try to connect to the 				
	Internet through your PC. Once Internet connection has been confirmed, you can register to DynamicDNS.				
The e-mail that includes the link	 Your registered E-mail address is incorrect. 				
to the viewnetcam.com	→ Register your correct E-mail address on the Viewnetcam.com website at				
service website is not sent.	http://www.viewnetcam.com.				
does not list any cameras.	Your firewall or antivirus software is blocking the connection.				
	→ To avoid any possible problems, temporarily disable any firewall or antivirus software, and set up the camera again. If you cannot disable your firewall or antivirus software, you can set up the camera using the MAC address (see page 124 of the Operating Instructions on the CD-ROM).				
	The camera is connected over a different network.				
	→ Set up the camera from a PC connected to the same router as the camera.				
	 Confirm that an IP address is assigned to your PC. 				
	→ If an IP address is not assigned to your PC, assign one (see page 119 of the Operating Instructions on the CD-ROM).				

Problem	Cause and Remedy
Setup Program fails to complete	 More than 20 minutes have passed since the camera was turned on.
successfully.	→ Disconnect the AC adaptor from the outlet, and reconnect it again. Set up the camera again.
	 Network problems may have occurred during setup.
	→ Confirm that your network is working. Disconnect the AC adaptor from the outlet, and reconnect it again. Then set up the camera again.
	Administrator settings are displayed, and setup is incomplete.
	→ After executing factory default by pressing the FACTORY DEFAULT RESET button on the side of the camera, set up the camera again.
	 Multiple camera IP addresses are overlapping.
	→ If you are installing multiple cameras, turn the cameras on one by one.
UPnP™ port	 UPnP[™] is disabled on the router.
forwarding setup fails.	\rightarrow Enable UPnP TM on the router following the router manual.
	The camera was turned on before the router was turned on.
	\rightarrow Turn the router on first, and then turn the camera on.
	 The default gateway is not set, or the settings are wrong.
	→ Set the default gateway correctly (see page 31 of the Operating Instructions on the CD-ROM).
	 The router does not support UPnP™.
	→ Enable port forwarding on your router following the router manual.
The camera IP address and port number have been forgotten.	• Clicking [Camera Setup] on the Setup Program displays the camera list. The camera list shows the MAC address labeled on the rear side. The camera IP address and port number are shown next to the MAC address.
The password has been forgotten.	 Press the FACTORY DEFAULT RESET button to reset the camera to default. Set up the camera again.

Problem	Cause and Remedy
An error message is displayed on the camera status by the Setup Program.	 An error on the Setup Program caused the error message.

[For BL-C20A] Wireless Communication Troubleshooting

Problem	Cause and Remedy			
Wireless	 Signal strength is weak. 			
communication does not work.	→ Change the location of the camera or remove any obstacles around the camera.			
	 The SSID and Encryption settings of the camera are different from those of the wireless router. 			
	→ SSID and Encryption settings must be identical for both the camera and wireless router.			
	 Wireless communication can be disconnected depending on the environment. 			
	\rightarrow Click [Refresh] on the web browser tool bar.			
Wireless communication is unstable.	 The communication channnel is the same as another wireless network. 			
	→ Wireless communication may be improved by changing the channel of the router.			
	 Another nearby wireless device may be causing interference or the distance between the wireless camera and your wireless network may be too great. 			
	→ Temporarily disable other wireless devices to identify the source of the interference.			
	→ Try repositioning the camera or moving it closer to your wireless router.			

Problem	Cause and Remedy
Though the camera is set to	 The camera emits electrical waves about 5 minutes after the power has been on, when set to wired connection.
wired connection, the router's wireless indicator is on or blinking.	→ Electrical waves will stop after about 5 minutes. Please wait.
The camera cannot communicate with the wireless terminal.	 Radio waves may not be reaching the wireless terminal or camera due to the distance between them, or the existence of obstacles such as a concrete wall. Adjust the position of the wireless terminal or camera.

Camera Image/Page Display Troubleshooting

Problem	Cause and Remedy							
The camera	The camera IP address has changed.							
cannot be accessed.	→ Enter the correct IP address in the address bar of the web browser.							
	DN		sing from t address is					
	→ Set the correct default gateway and DNS server ac Especially, when the DynamicDNS service is used address must be set correctly (see page 31 of the C Instructions on the CD-ROM).					used, t	he IP	
	 The connection type is wrong (see page 35 of the Operation Instructions on the CD-ROM). 				ating			
		Negotiatio	era does n on] setting to the follo	, set up the	e camer		0	-
	Network Camera Auto 100Base-TX 10Base-T		se-TX					
		Router or h	ub	Negotiation	Full Duplex	Half Duplex	Full Duplex	Half Duplex
		Auto Ne	egotiation	v	_	~		~
		100Base-	Full Duplex		~	—	—	—
		ТХ	Half Duplex	~		~	_	
		10Base-T	Full Duplex Half Duplex	- -	—		~	
			nall Duplex		—	—	—	~

Problem	Cause and Remedy
The camera cannot be accessed on the	The connected router does not have a loopback feature.
	\rightarrow Access the camera with a local network IP address.
LAN.	 The wrong IP address class is assigned to the camera.
	→ If you access the camera on the LAN, the PC IP address and the camera IP address must be set in the same class. Set the camera IP address same as the class of the PC IP address (see page 119 of the Operating Instructions on the CD- ROM).
	 The web browser is accessing a proxy server.
	→ Set the web browser not to access the proxy server (see page 127 of the Operating Instructions on the CD-ROM).
	 The camera was accessed on the same LAN by entering the registered URL (or the router's global IP address) when using a DynamicDNS service.
	→ To access a camera on the same LAN, use the address for its local network address.
The camera can	 The default gateway address may be wrong.
be accessed on the LAN, but the camera cannot	→ Set the correct default gateway address (see page 31 of the Operating Instructions on the CD-ROM).
be accessed from the	 UPnP[™] is disabled on the router.
Internet.	\rightarrow Enable UPnP TM on the router following the router manual.
	 Port forwarding is not enabled on the router (see page 41 of the Operating Instructions on the CD-ROM).
	\rightarrow Enable port forwarding following the router manual.
	 Firewalls such as packet filtering on the router are blocking camera access.
	→ Set the router to allow access to the camera following the router manual.
	 You are accessing the camera using a local IP address.
	→ Access the camera with the global IP address of the router and port number of the camera.

Problem	Cause and Remedy
Authentication windows are	 The user name and password for the administrator or general users have been changed.
consequently displayed.	\rightarrow Close the web browser, and access the camera again.
Only half of the	 You are using Internet Explorer 4.xx or lower.
image is displayed.	\rightarrow Upgrade Internet Explorer to version 6.0 or greater.
The camera image is not	 ActiveX[®] Controls are not installed in Internet Explorer.
displayed, or not displayed properly.	→ ActiveX Controls should be installed to display video (Motion JPEG). For the ActiveX Controls installation method, see page 15 of the Operating Instructions on the CD-ROM when using Microsoft [®] Windows [®] XP Service Pack 2, or see page 14 of the Operating Instructions on the CD-ROM when using other operating systems.
	 The network is congested.
	ightarrow Pages may not be displayed immediately. Wait for a moment.
	 The web browser is accessing a proxy server.
	→ Set the web browser not to access the proxy server (see page 127 of the Operating Instructions on the CD-ROM).
Camera images are not displayed on the	 The images may not be displayed if local IP addresses and global IP addresses (or domain names) are mixed on the Multi- Camera page.
Multi page.	→ To view the images within the LAN, set the Multi-Camera page using local IP addresses. To view the images from the WAN side, set the Multi-Camera page using global IP addresses (or domain names) (see page 92 of the Operating Instructions on the CD-ROM).
The error message	 A wrong IP address or domain name may be set on the Multi- Camera page.
"ERROR CODE (4/12002)" is displayed, and the image is not displayed.	\rightarrow Set the correct IP address or domain name.
	 If the correct IP address or domain name was already set, the network connection may be timed out.
	→ Access the network when it is less busy, or close other software that is connected to the network.

Problem	Cause and Remedy
The Top page or image is not displayed on the	Only the IP address and port number are entered.
	\rightarrow Enter "/mobile" after entering "IP Address:Port Number".
cell phone.	 A 320 × 240 resolution image is not displayed.
	\rightarrow Cell phones do not support 320 × 240 resolution images.
	 The file size of the image is exceeding the capacity of the cell phone.
	\rightarrow View the image at 160 × 120 resolution.
	 The cell phone supports to only XHTML.
	\rightarrow Enter "/mobileX" by following an IP address and port number.
A gray screen is displayed.	 There are currently more than 20 different users trying to access the video (Motion JPEG).
	→ Reduce the number of users accessing the camera to below 20, or change the video to still images.
	 Operation time has been specified.
	→ A gray screen is displayed outside the operation time. This is normal.
Video suddenly changes to still	 The video (Motion JPEG) display period is set on the Image Display page.
images.	→ To view video continuously, set [Unlimited] for the limit continuous Motion JPEG (see page 89 of the Operating Instructions on the CD-ROM).
The image is out	The lens has dust, dirt, fingerprints or moisture on it.
of focus.	→ Clean the lens with a cotton bud (see page 118 of the Operating Instructions on the CD-ROM).
	 The object is too close to the camera.
	→ The camera cannot focus at short distances (less than 0.3 m [about 11 3/4 inches]). Locate the object more than 0.3 m (about 11 3/4 inches) away from the camera.

Problem	Cause and Remedy
The color on the image is strange.	The white balance is not set appropriately.
	→ Adjust the white balance on the Camera page (see page 50 of the Operating Instructions on the CD-ROM).
	 The color display setting on your PC is set lower than 16 bits.
	\rightarrow Set the color display to 16 bits or higher.
The brightness of the displayed image is not stable (hunting phenomenon*).	 The brightness of the object changes suddenly. (e.g. when lighting is turned on in a dark area)
	→ Adjust the brightness of the camera slightly by pressing "+" or "-" once.
	*The hunting phenomenon is when the image lightens, then darkens, then lightens repeatedly, without stabilizing to a constant brightness.
The image	The camera transmits a dark scene.
contains interference or horizontal lines, or the image may be white.	→ Make the scene brighter. When the camera transmits a dark scene, the camera image may become white, or horizontal lines may be displayed on the screen. This is one of the characteristics of a CMOS sensor. This is not a malfunction.
	 The AC Power Source Frequency setting is different from its value in your area.
	→ Set the same value as in your area on the Setup page. See page 50 of the Operating Instructions on the CD-ROM.
	 The colors setting of the monitor is set to less than 16 bit high color.
	\rightarrow Set it to 16 bit high color or greater.
An old image is displayed.	Old images are temporarily stored on the web browser.
	→ Set [Every visit to the page] on the web browser to check for temporary Internet files (see page 130 of the Operating Instructions on the CD-ROM).

Problem	Cause and Remedy
The image refreshes very slowly.	 Multiple users are accessing the camera.
	\rightarrow Wait until fewer users are accessing the camera.
	 You are not using an Ethernet switching hub.
	→ If you view multiple cameras on the Multi-Camera page without an Ethernet switching hub, the image refreshes slowly. Use an Ethernet switching hub.
	• The image may refresh slowly, depending on image resolution, image quality, network traffic, PC performance, or what is being viewed.
	 The max. bandwidth usage is limited.
	→ Increase the max. bandwidth usage on your network (see page 31 of the Operating Instructions on the CD-ROM).
	 The camera is in color night view mode.
	→ When enabling color night view mode, the image refreshes slowly. Disable color night view mode, or make the area around the camera brighter.
When accessing the camera, the Update Firmware page is displayed.	 The camera firmware may be damaged because the power was turned off during an update, etc.
	→ Download the latest firmware from the Panasonic Network Camera support website and update the firmware (see page 100 of the Operating Instructions on the CD-ROM).
Images of	 Color night view mode is enabled.
moving subject are blurred or not displayed.	→ When enabling color night view mode, the image refreshes slowly. Disable color night view mode, or make the area around the camera brighter.

Operation Bar Troubleshooting

Problem	Cause and Remedy
Some buttons on the operation bar are not displayed.	 The access level is set to level 1 on the General User page. → Set the access level to level 2 (see page 57 of the Operating Instructions on the CD-ROM), or log in to the camera as an administrator.

Image Buffer/Transfer Troubleshooting

Problem	Cause and Remedy
The camera does not transfer an image by E-mail or FTP.	 An error occurred during transmission to the E-mail or FTP server.
	→ See the Protocol column on the Status page (see page 98 of the Operating Instructions on the CD-ROM), and check if the error is displayed.
	 The default gateway and DNS server addresses are not assigned correctly.
	→ Assign them correctly (see page 31 of the Operating Instructions on the CD-ROM).
	Your login ID and password for the E-mail or FTP are invalid.
	ightarrow Make sure that you enter your correct login ID and password.
	 The camera cannot transfer the image because [No authentication] is set on the Trigger page.
	→ Change the authentication method to [POP before SMTP authentication] or [SMTP authentication], and set the Login ID and Password (if you select [POP before SMTP authentication], set the POP3 Server IP Address), then try transferring by E-mail again. (See page 60 and page 70 of the Operating Instructions on the CD-ROM)
	 For E-mail transfer, the SMTP server supports authentication methods other than the PLAIN and LOGIN methods of SMTP authentication. For example, CRAM-MD5.
	→ For SMTP authentication of the camera, only the PLAIN and LOGIN methods are supported. Confirm with your ISP.

Problem	Cause and Remedy
The camera does not transfer an image only to a cell phone.	 The image quality is not set to [Mobile Phone] on the Image Buffer/Transfer page.
	\rightarrow Set the image quality to [Mobile Phone].
	 Some cell phones do not support 320 × 240 resolution.
	\rightarrow Set the resolution to [160 × 120]
The image is slowed down on the Buffered Image page, or the camera transfers an old image.	The transfer interval is too short.
	→ Set the transfer interval longer than the current setting (see page 62 and page 73 of the Operating Instructions on the CD-ROM).

Miscellaneous Troubleshooting

Problem	Cause and Remedy
The ActiveX controls cannot be installed.	Security software disables the ActiveX control installation.
	→ Close the security software, and install the ActiveX controls again.
The firmware is not updated.	 The firmware updating was not completed due to the power being turned off, network failure or other cause.
	\rightarrow Update the firmware again following these steps.
	Disconnect the AC adaptor from the outlet, and reconnect it again.
	the camera.
	Is the Top page displayed? No
	Yes Access the Maintenance page and click [Status]*1. Check the firmware version on the Status page. Is the version updated?
	Yes Update the firmware*2. The firmware update is completed.
	*1 See page 98 of the Operating Instructions on the CD-ROM.
	*2 See page 100 of the Operating Instructions on the CD-ROM about updating firmware.
The shortcut icon is not displayed in the My Network Places folder.	 The UPnP[™] Windows component is not installed in Windows XP or Windows Me. → Install the UPnP[™] Windows component in Windows XP or Windows Me (see page 130 of the Operating Instructions on the CD-ROM).
The problem cannot be fixed.	Call our customer call center at 1-800-272-7033.

The information in this document is subject to change without notice.

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