

Panasonic[®]

Operating Instructions

Network Camera

Model No.



Please read this manual before using, and save this manual for future reference.

Panasonic Network Camera Website: <http://www.panasonic.com/netcam>

Main Features

Dome-shaped Camera for Neat Mounting on the Ceiling

This is a dome-shaped camera with integrated mounting hardware ideal for indoor ceiling use. Conventionally, to mount our cameras (other than the optical zoom type^{*1}) on the ceiling, a separate dedicated stand was necessary.

The integration of the mount equipment and the neat design of the dome shape allow you to mount the camera anywhere conveniently.

PoE^{*2} (Power over Ethernet) Compliant with a Power Receiving Device Integrated

The camera is compliant with PoE (IEEE 802.3af) standards, contains a power receiving device that enables it to receive power via an Ethernet cable, and supports PoE^{*2}. This allows you to mount the camera even if there is no power outlet near the installation position, and saves the cost of installing a new power outlet. In addition, since power can be supplied through a 100 m long cable from the PoE hub, the camera can be installed in a wide range of positions. Data transmission is also performed via the Ethernet cable, so the connection of several cables is not necessary. This allows you to mount the camera neatly considering the esthetic appearance of the installation position.

The power can also be supplied via an optional AC adaptor (Order No.: BB-HCA2A) when a power outlet is situated near the installation position.

10x Digital Zoom Feature^{*3}

The camera has a 10x digital zoom feature that allows you to increase the size of a monitored object up to 10 times. This makes it easier to view objects that are located far away from the camera. In addition, each user can use this digital zoom feature. Therefore, when accessing one camera from multiple positions, each user

Motion Detection Feature^{*5}

SD Memory Card Recording

Multi-Camera Page^{*9}

Other Features

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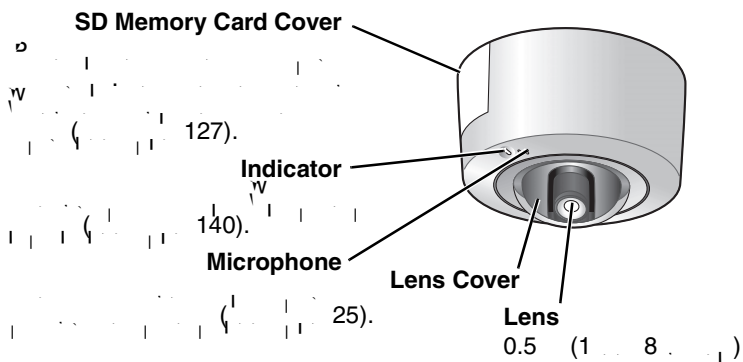
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1 Camera Monitoring

1.1 Feature Locations

1.1.1 Front View



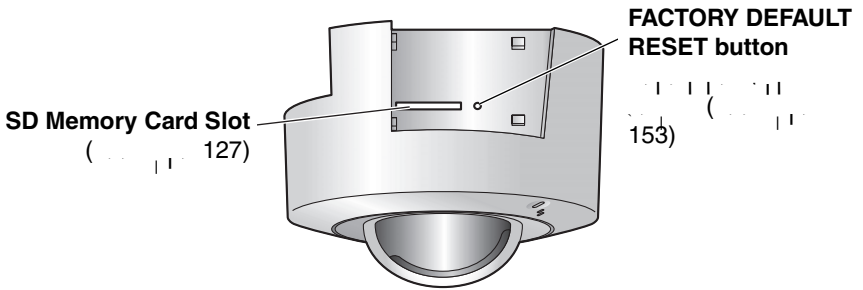
Indicator Display

		→ →
		→
	*1	
		→
		()
		(2)
		*2

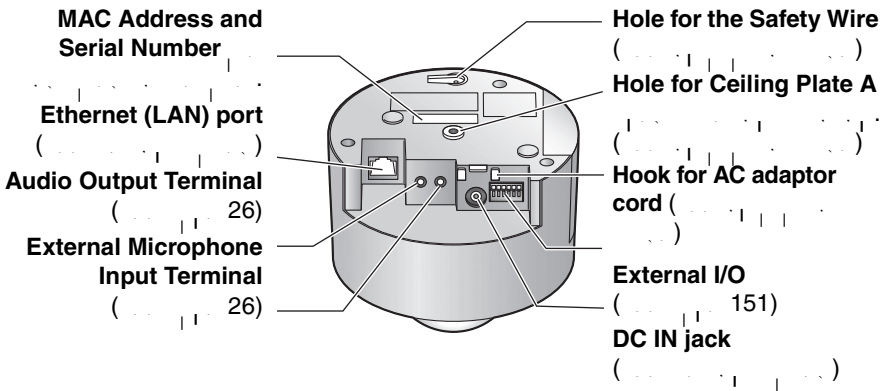
*1

*2 3.6

1.1.2 Side View



1.1.3 Bottom View



1.2 How to Turn on the Camera

When using the AC Adaptor (Model No. BB-HCA2A: Option)

- Connect the AC adaptor to the power jack of the camera.
- Connect the power cord to the AC adaptor.

When using a PoE hub (Connecting the AC adaptor is not necessary.)

- Connect the PoE hub to the power jack of the camera.
- Connect the PoE hub to the PoE hub.

Note

- Do not connect the camera to a power source other than the AC adaptor or PoE hub.

1.3 Accessing the Camera

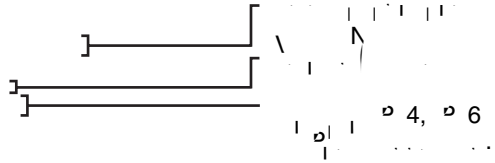
1. `http://IP Address:Port Number`
2. **"`http://IPv4 Address (or URL):Port Number`"**
80 (),
40
6 13 14,
"`http://(IPv6-registered URL):Port Number`"
9 /
://192.168.0.253:50000 (in IPv4)
://*****:50000 (in IPv6)

3. `http://IP Address:Port Number`

Note

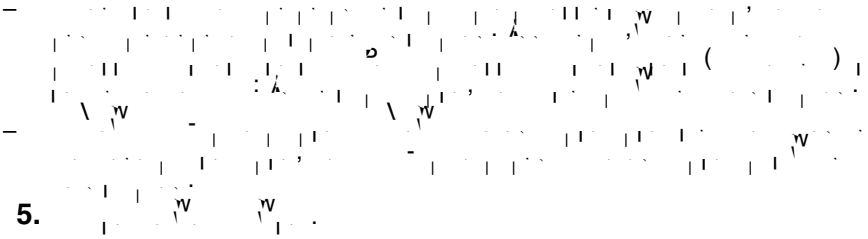
- `http://IP Address:Port Number`

4.



A	(15)	B	(27)
C	(29)	D	(35)
E	(141)	F	(150)
G	(79)		

Note



5.



1.3.1 To Access the Camera in IPv6

- PC Requirements
 - Operating System: Windows 7 or later
 - Web Browser: Internet Explorer 6.0 or later
- An IPv6 Router
- An IPv6 Connection Service

IPv6 Domain Name Service

What is IPv6?

- IPv6 is a 128-bit address space, which is 16 times larger than IPv4.
- IPv6 is a 128-bit address space, which is 16 times larger than IPv4.
- IPv6 is a 128-bit address space, which is 16 times larger than IPv4.
- IPv6 is a 128-bit address space, which is 16 times larger than IPv4.
- IPv6 is a 128-bit address space, which is 16 times larger than IPv4.
- <http://www.ipv6.org/>.

Setting up the IPv6 Router, your PC, and the Camera

Setting up the IPv6 Router

<http://panasonic.co.jp/pcc/products/en/netwkcaml>

Setting up your PC

1. Click on the Start button, then click on Control Panel.
2. In the Control Panel, click on the All Control Panel Items link. Then click on the Windows Firewall link.

Note

- If you are using Windows 7, click on Windows Firewall with Internet Explorer.
 - If you are using Windows 8, click on Windows Firewall with Internet Explorer.
3. In the Windows Firewall with Internet Explorer window, click on the Windows Firewall link. Then click on the Windows Firewall link.


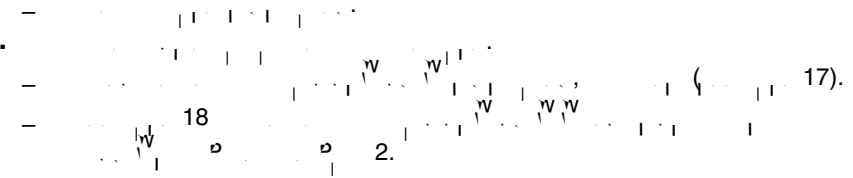
Setting up the Camera

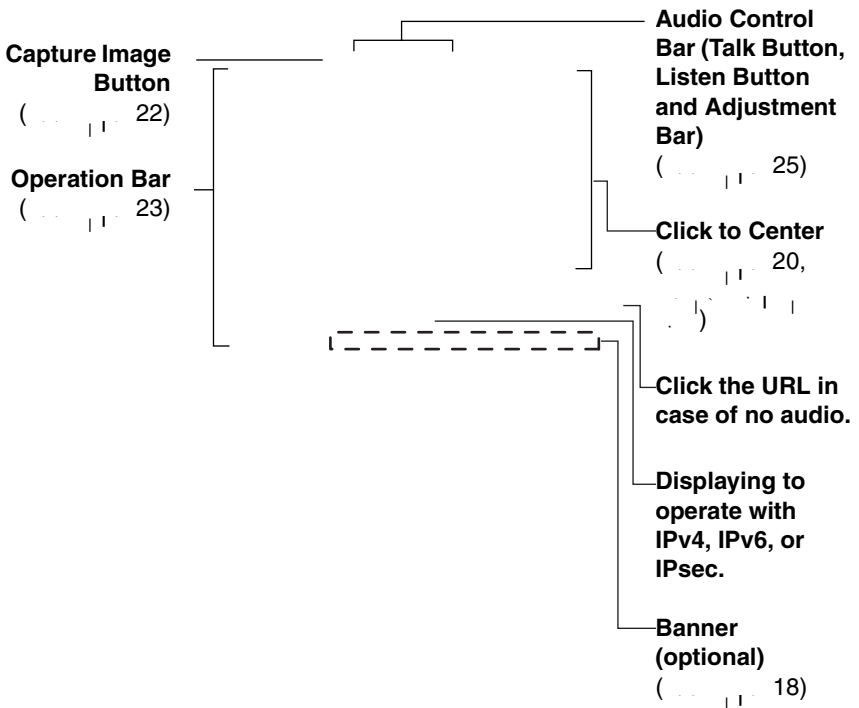
43. In the Windows Firewall with Internet Explorer window, click on the Windows Firewall link. Then click on the Windows Firewall link.


Confirming that You Can Access the Camera

44. In the Windows Firewall with Internet Explorer window, click on the Windows Firewall link. Then click on the Windows Firewall link.

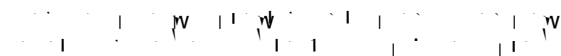

1.4 Viewing the Single Camera page

1.  (Screenshot 11).
2.  (Screenshot 17).

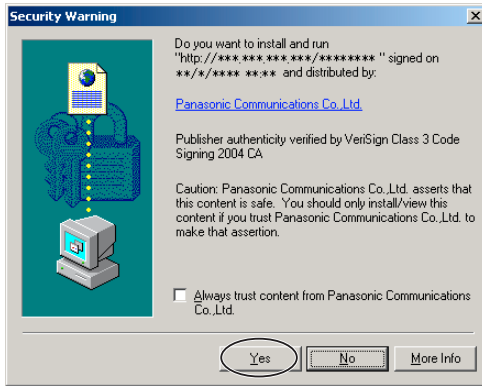


3.  (Screenshot 18).

Note

-  (Screenshot 18).
-  (Screenshot 23).

Security Warning window



If you cannot install ActiveX Controls or you cannot see the video using the Internet Explorer

- (1) " "
 - (2) " "
- (1) " "
 - (2) " "
 - (3) " "
- <http://panasonic.co.jp/pcc/products/en/netwkcaml/>

Note

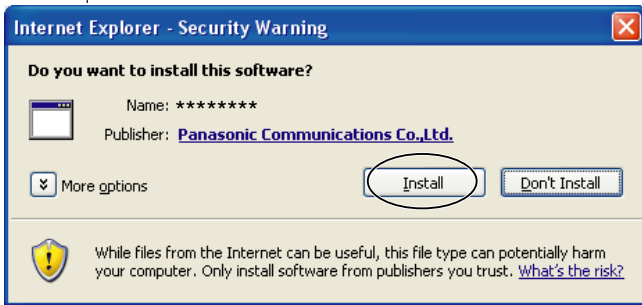
(162).

Security Warning window on Microsoft Windows XP Service Pack 2

1.



2.



1.4.1 Displaying the Banner

1.

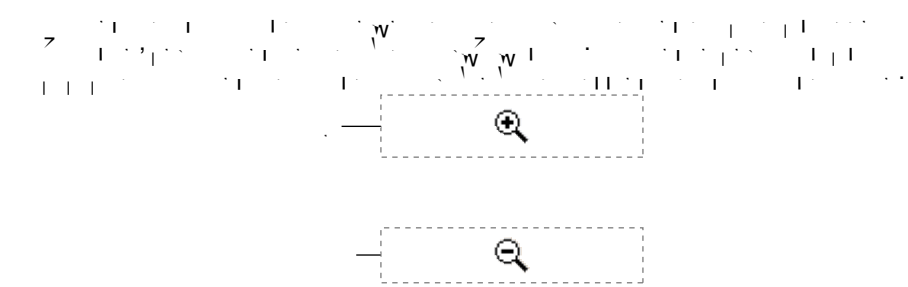
132).

1.4.2 Zooming In and Out

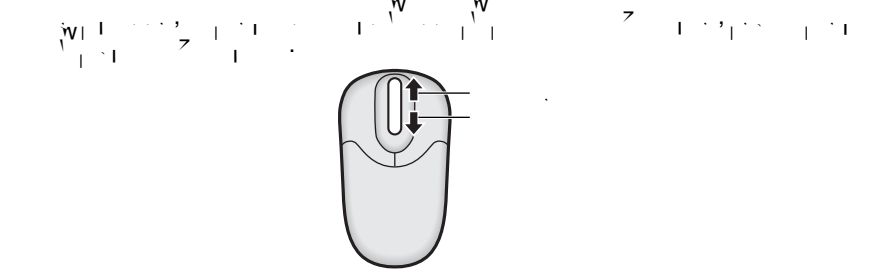
Note

- Pressing the **Ctrl** key and the **+** key zooms in.
- Pressing the **Ctrl** key and the **-** key zooms out.
- Pressing the **Ctrl** key and the **0** key resets the zoom to 100%.

Clicking the right mouse button (For Only Video)



Rotating the mouse wheel (For Only Video)

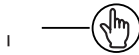


Note

- Pressing the **Ctrl** key and the **0** key resets the zoom to 100%.

1.4.3 Auto Centering the Image (Click to Center)

1. Click on the image to center it.



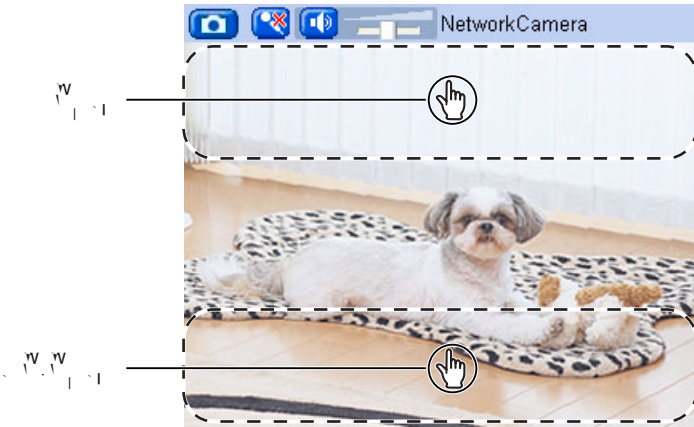
2. The image is centered.

— The image is centered (Figure 21).

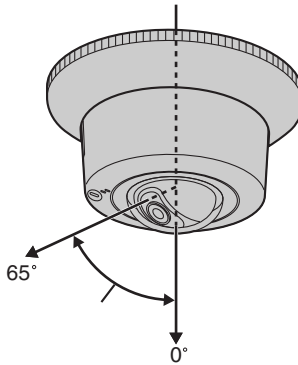
Note

- The image is centered (Figure 21).
- The image is centered (Figure 23).
- The image is centered (Figure 23).

1.4.4 Tilt Operation



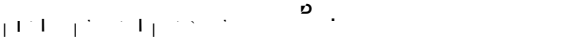
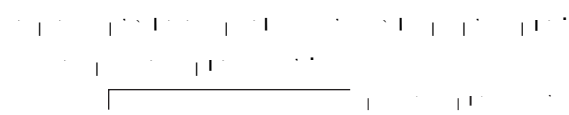


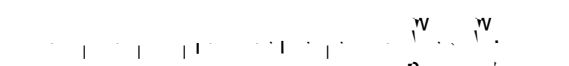
Tilt range



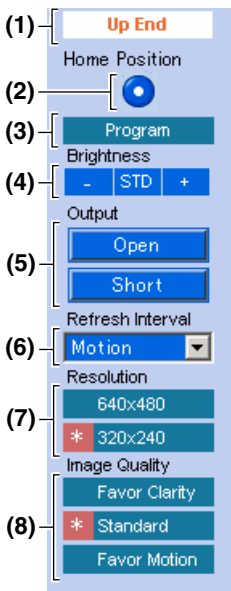
Note

- The camera can be tilted up to 65°.
- The camera can be tilted down to 0°.

1.4.5 Capturing a Still Image

1. 
2. 
3. 
4. 
5. 

1.4.6 Using the Operation Bar



(1) **End Display:**

Press the **Up End** button to end the display.

(2) **Home Position (the administrator only):**

Press the **Home Position** button to return the display to the home position.

(3) **Program (the administrator only):**

Press the **Program** button to display the program menu.

(4) **Brightness:** Press the **Brightness** button to adjust the brightness of the display. Press the **+** button to increase the brightness and the **-** button to decrease the brightness.

(5) **Output Control:** Press the **Open** button to open the display and the **Short** button to short the display.

(6) **Refresh Interval:** Press the **Refresh Interval** button to select the refresh interval of the display.

(7) **Resolution:** Press the **Resolution** button to select the resolution of the display.

(8) **Image Quality:** Press the **Image Quality** button to select the image quality of the display.

1.4.7 Setting the Home Position (the administrator only)

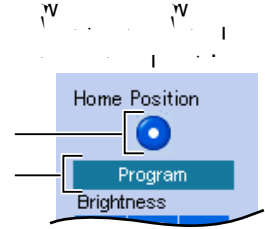
Registering the Home Position

1.

2.

3.

4.



Viewing the Home Position

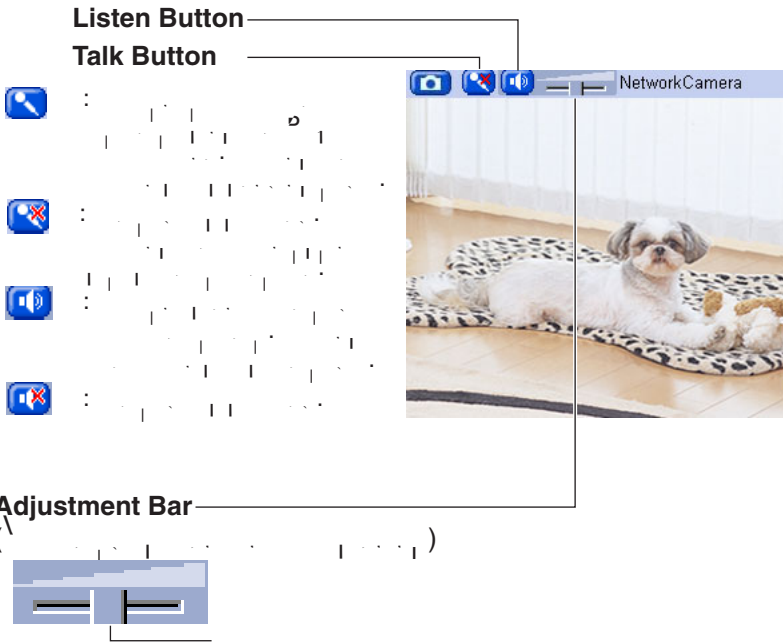
1.

Note

1.5 Listening to Camera Audio and Talking through the Camera

1. Click the **Listen** button (see Figure 11).
2. The camera starts to listen to the audio from the camera.
3. Click the **Talk** button (see Figure 12, **Listen to Camera Audio and Talking through the Camera**), and the camera starts to talk through the camera.

Audio Feature



Adjustment Bar (see Figure 12)

Note

41 46). 10

(73).

41 46).

16 7 (23).

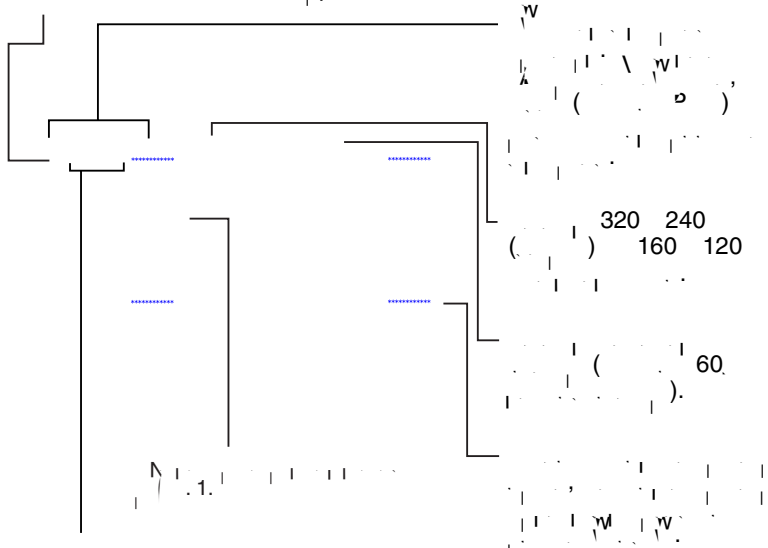
1.6 Viewing the Multi-Camera page

1. Click on the **Multi** button (Figure 1.11).
2. The Multi-Camera page is displayed (Figure 1.12).



Figure 1.12 Multi-Camera page (Screenshot) (Page 12)

Capture Image Button (Figure 1.22)



Audio Control Bar (Talk button, Listen button and Adjustment Bar) (Figure 1.25)

3. Click on the **Talk** button (Figure 1.25).

1.7 Viewing the Buffered Image page

... (84, 94, 106).

Note

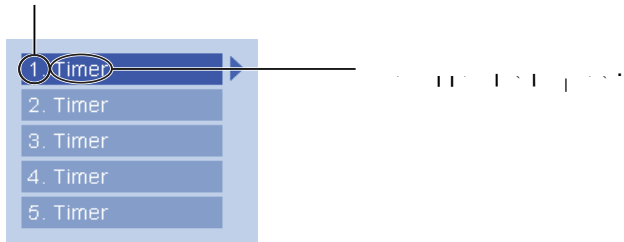
1. ... (11).

2.

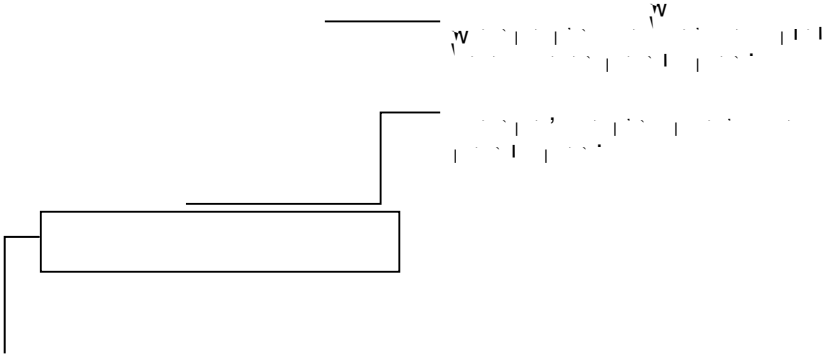


3.

... (84, 94, 106).



4.



[Play]:

[<Prev] or [Next>]:

[First], [<10000], [<1000], [<100], [<10] or [10>], [100>], [1000>], [10000>], [Last]:

10 , 100 , 1000 10000

[Download]

<http://panasonic.co.jp/pcc/products/en/netwkcam/>



Using the digital zoom feature on the Buffered Image page

- Press **10** **w** (**19**).
- Press **(1.0 10.0)** **w**.
- Press **4**.

Note

- Press **w**.
- Press **1**.
- Press **2**.
- Press **(320 240)** **b**.
- Press **4**.
- Press **(3 5 125)** **3**.
- Press **40** **)** **177**.
- Press **178**.

1.7.1 Deleting Buffered Images

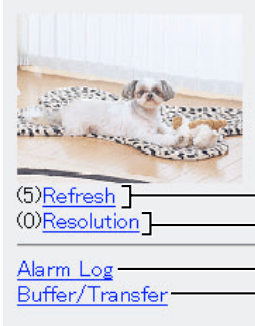
- Press **(84, 94, 106)**.

Note

- Press **1**.
- Press **w**.
- Press **2**.
- Press **1**.
- Press **2**.
- Press **(84, 94, 106)** **/**.

1.8 Viewing Still Images on Your Cell Phone

[http://IP address \(or URL\):Port Number/Mobile](http://IP address (or URL):Port Number/Mobile)
 80 (),
 ://***.***.***.***:50000/
 (*****. :50000/)



(1) 5
 (2) 160 120
 320 240
 (3) 50
 (4) 34

Alarm Log Info.
 Displays Up to 50
 Logs in order of
 time.
[Control Page](#)
 New Logs:3
 10/22 19:15 A1 R
 10/22 18:40 A2 F
 10/22 18:15 MD
[Control Page](#)

(5)
 (6)
 (7)

Display	Operation	Signal
A1 R	Alarm1	Rising: GND to Open (High)
A2 F	Alarm2	Falling: Open (High) to GND
MD	Motion Detection	-

(8)

Note

1. **http:// IP address(or URL):Port Number/MobileH**

(*****:50000/)

2. **http:// IP address(or URL):Port Number/MobileX**

(*****:50000/)

<http://panasonic.co.jp/pcc/products/en/netwkcaml>

1.8.1 Enabling or Disabling the Buffer/Transfer on your Cell Phone

1. Press **OK** to go to the Buffer/Transfer menu.
2. Press **Left** to go to the Buffer/Transfer menu.
3. Press **Left** to go to the Buffer/Transfer menu.

Buffer/Transfer

No. Status Trigger

(1) OFF Timer

(2) OFF Timer

(3) OFF Timer

(4) OFF Timer

(5) OFF Timer

[Control Page](#)

4. Press **Left** to go to the Buffer/Transfer menu.

Buffer/Transfer

The 1st setting will be changed to ON.
If you press [Save], all buffered images are deleted.

[Save](#) [Cancel](#)

No.(1)

Status:OFF -> ON

Trigger:Timer

Su Mo Tu We Th Fr Sa

Active:Always

No Transfer, No Memory

Overwrite

Notify :-

2 Using the Camera's Basic Features

2.1 Setup Page of the Camera

1. Click on the "Setup" tab (Figure 11).

Note

- 2.

The screenshot displays the camera's web interface. At the top, there are navigation tabs: Top, Single, Multi, Buffered Image, Setup, Maintenance, and Support. The "Setup" tab is selected. On the left side, there is a vertical navigation menu with the following items: Basic (Network(IPv4), Network(IPv6), P2P, UPnP, DynamicDNS, Date and Time, Camera, Audio), Account (Administrator, General User), Buffer/Transfer (Trigger, Motion Detection, Alarm Log), and Advanced (Image Display, Multi-Camera, Operation Time, External Output, Indicator Control). The main content area is titled "Network(IPv4)" and contains the following text: "Set up network configuration. Select 'Automatic Setup' if you connect the camera to the router and wish to set it up automatically. Select 'Static' if you wish to assign a static IP address to the camera. Select 'DHCP' if you are using the DHCP function of your router or ISP." Below this text is a table titled "Connection Mode".

Connection Mode	Current Setting	
Automatic Setup	X	Configure network settings automatically
Static		Assign static IP address to the camera.
DHCP		Get IP address from DHCP server

Basic

- (1) Network (IPv4) 38).
- (2) Network (IPv6) 43).
- (3) IPsec 47).
- (4) UPnP 57).
- (5) DynamicDNS 60).
- (6) Date and Time 67).
- (7) Camera 70).
- (8) Audio 73).

Account

- (9) Administrator*1 75).
- (10) General User*1 80).

Buffer/Transfer

- (11) Trigger 84, 94, 106).
- (12) Motion Detection 120).
- (13) Alarm Log 124).

Advanced

- (14) Image Display 132).
- (15) Multi-Camera*1 135).

(16) **Operation Time**

137).

(17) **External Output**

139).

(18) **Indicator Control**

140).

*1

W I () W

2.2 Connecting the Camera to Your IPv4 Network

- 1.
- 2.

Connection Mode	
Connection Mode	Current Setting
Automatic Setup	<input type="checkbox"/>
Static	<input type="checkbox"/>
DHCP	<input type="checkbox"/>

- 3.

Automatic Setup

80 50000 50050.

Allow Access from the Internet
<input type="radio"/> Yes
<input checked="" type="radio"/> No
Max. Bandwidth Usage
Unlimited
Connection Type
Auto Negotiation
<input type="button" value="Save"/> <input type="button" value="Cancel"/>

DHCP Setup

Network Configuration from Setup Program	
<input checked="" type="checkbox"/> Enable	
Internet Connection	
Port No.	80
Host Name	
Default Gateway	
Default Gateway	
DNS	
DNS Server 1	
DNS Server 2	
Max. Bandwidth Usage	
Unlimited	
Connection Type	
Auto Negotiation	
Save Cancel	

Static Setup

Network Configuration from Setup Program	
<input checked="" type="checkbox"/> Enable	
Internet Connection	
Port No.	80
IP Address	192.168.0.253
Subnet Mask	255.255.255.0
Default Gateway	
Default Gateway	
DNS	
DNS Server 1	
DNS Server 2	
Max. Bandwidth Usage	
Unlimited	
Connection Type	
Auto Negotiation	
Save Cancel	

4.

Automatic Setup or DHCP Setup

Static Setup

Note

5.

Note

156).

Setting	Description
()	80 50000 50050
(/)	80.
(/)	<p>2.7.2 (4)".</p> <p>: 20 21, : 23, : 25, : 53,</p> <p>: 3: 110, : 443, : 4000 :</p> <p>6661 6667.</p> <p>1 65535.</p> <p>80.</p>
()	<p>4 (255) 3 155).</p> <p>"192.168.0.253".</p> <p>"255.255.255.255" "0.0.0.0"</p>

Setting	Description
()	176)
(/)	4. (255) 3 "192.168.0.253" "0.0.0.0" "255.255.255.255"
(/)	4. (255) 3 "192.168.0.253" "0.0.0.0" "255.255.255.255"
	0.1 4 6. Note 160 120 : 3.5 (28) 320 240 : 10 (80) 640 480 : 18 (144)

Setting	Description
	<p data-bbox="409 219 973 267"> 9 </p> <p data-bbox="696 292 845 324"> 4 6. </p>

*1

2.3 Connecting the Camera to Your IPv6 Network

Note

- 1.
- 2.

Connection Mode	
Connection Mode	Current Setting
Automatic Setup	
Static	

- 3.

Automatic Setup

Allow Access from the Internet	
<input type="radio"/> Yes	
<input checked="" type="radio"/> No	
DNS	
DNS Server 1	<input type="text"/>
DNS Server 2	<input type="text"/>
Max. Bandwidth Usage	
Unlimited ▾	
Connection Type	
Auto Negotiation ▾	
Save Cancel	

Static Setup

4.

New settings are saved.

New settings are saved. Please restart this product.

Note: All the buffered images will be erased when restarted.

Restart

Note

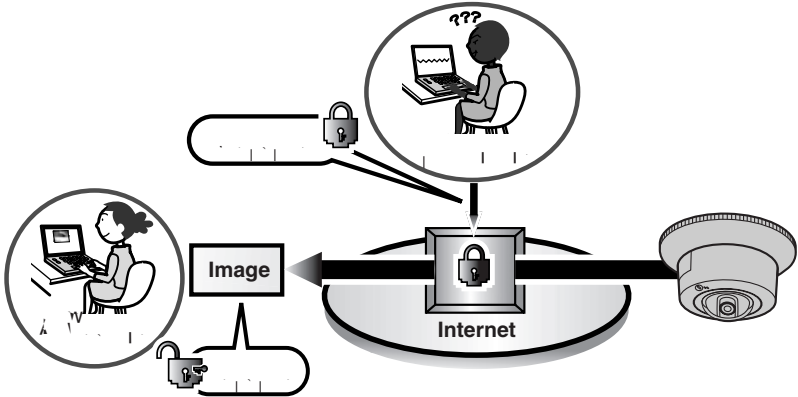
5.

Note

Setting	Description
<p>W</p>	<p>6</p>
<p>()</p>	<p>80.</p> <p>20, 21, 23, 25, 53,</p> <p>3: 110, 443, 4000 6661</p> <p>6667.</p> <p>1 65535.</p> <p>80.</p>
<p>()</p>	<p>6</p> <p>8</p> <p>0</p> <p>2001:2:3:4::5)</p>
<p>()</p>	<p>6</p> <p>8</p> <p>0</p> <p>2001:2:3:4::5)</p>
<p>N</p>	<p>6</p> <p>8</p> <p>0</p> <p>2001:2:3:4::5)</p>

Setting	Description
	<p data-bbox="929 240 963 264">0.1</p> <p data-bbox="695 298 846 326">□ 4 □ 6.</p> <p data-bbox="352 345 408 370">Note</p> <p data-bbox="426 493 857 521">160 120 : k 3.5< (28<)</p> <p data-bbox="426 529 857 557">320 240 : k 10< (80<)</p> <p data-bbox="426 565 857 592">640 480 : k 18< (144<)</p>
	<p data-bbox="717 630 729 654">9</p> <p data-bbox="695 688 846 716">□ 4 □ 6.</p>

2.4 What is IPsec?



Camera's IPsec Features

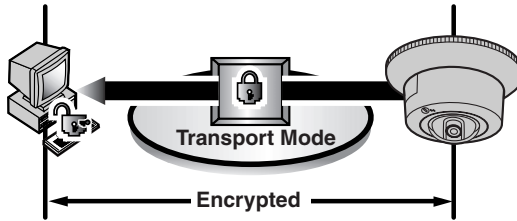
Item	Supported Feature
1	<ul style="list-style-type: none"> 1. Authentication: HMAC (SHA-1, SHA-256) 2. Encryption: AES (128, 192, 256 bit) 3. Tunnel Mode: Yes 4. Transport Mode: Yes 5. IKEv1: Yes 6. IKEv2: Yes
2	<ul style="list-style-type: none"> 1. Authentication: HMAC (SHA-1, SHA-256) 2. Encryption: AES (128, 192, 256 bit) 3. Tunnel Mode: Yes 4. Transport Mode: Yes 5. IKEv1: Yes 6. IKEv2: Yes

*1

*2

IPsec Mode Selection

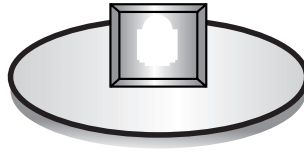
Transport Mode (IPv4 Only)



Item	Supported Feature
	<p>6.0</p> <p>Note</p> <p>http://panasonic.co.jp/pcc/products/en/netwkcsm/</p>

Tunnel Mode (IPv4/IPv6)

Note

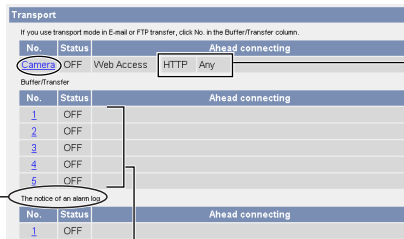


Item	Supported Feature
	: 2000, 98 (4) : 1 (6) : 6.0
(. 4) (. 6) Note	: (k) : k " 4/ 6 - " " 6 4 http://panasonic.co.jp/pcc/products/en/netwkcsm/
(. 4) (. 6)	: (k) : k " 4/ 6 - " " 6 4

2.5 Encrypting the Camera Image in Transport Mode

Note

- 1.
2. **Camera**

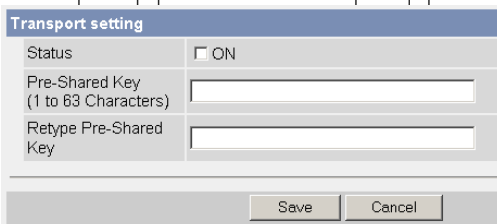


(124)

(118).

Note

- 1.
- 2.
- 3.



Setting	Description
	<p>176).</p> <p>Note</p>

4.

5.

6.

IPsec

Check the box to enable IPsec features. If you clear the box, whole IPsec features will be invalid.

Use

Encoding strength

Encoding strength for IPsec can be selected. If you select [Standard], DES or NULL is valid as an algorithm, and then the data will become easier to be decrypted.

Standard (AES,3DES,DES, NULL)

High (AES,3DES)

Setting	Description

7.

8. 48.

9. (11).

Note

<http://panasonic.co.jp/pcc/products/en/netwcam/>

2.6 Encrypting the Camera Image in Tunnel Mode

Note

- 1.
- 2.

Add

Tunnel		
To add IPsec settings, click "Add". To edit your settings, click the corresponding No.		
No.	Status	Ahead connecting
Add		

- 3.

Tunnel setting	
Status	<input checked="" type="checkbox"/> ON
Pre-Shared Key (1 to 83 Characters)	<input type="text"/>
Retype Pre-Shared Key	<input type="text"/>
Network address	<input type="text"/>
Router address	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Setting	Description

Setting	Description
<p>176).</p> <p>Note</p>	<p>176).</p> <p>Note</p>
<p>Note</p>	<p>Note</p>
<p>Note</p>	<p>Note</p>

4.

5.

6.

IPsec

Check the box to enable IPsec features. If you clear the box, whole IPsec features will be invalid.

Use

Encoding strength

Encoding strength for IPsec can be selected. If you select[Standard], DES or NULL is valid as an algorithm, and then the data will become easier to be decrypted.

Standard (AES,3DES,DES, NULL)

High (AES,3DES)

Setting	Description
1	...
...	...

7.

8.

IKE Items	Settings
1	...
	...
	...
	...
	...
	...
2	...
	...
	...
	...

*1 ...

Items	Settings

9. (11).

Note

23
<http://panasonic.co.jp/pcc/products/en/netwcam/>

2.7 Using UPnP™ (Universal Plug and Play)

<http://panasonic.co.jp/pcc/products/en/netwkcaml>

Note

1. Select **UPnP**.
2. Select **Enable**.

The screenshot shows a settings window with two sections:

- Auto Port Forwarding:**
 - Enable
 - Disable
- Display Shortcut Icon in My Network Places:**
 - Enable
 - Disable

A **Save** button is located at the bottom right of the window.

Setting	Description
<p>UPnP</p>	<p>Note</p> <p>(Port 40).</p>
<p>Display Shortcut Icon in My Network Places</p>	<p>Note</p> <p>(Port 165).</p>

3. Select **Save**.

4.

2.7.1 Connecting the Camera to a Router that Supports UPnP™ (IPv4 Only)

Note

<http://panasonic.co.jp/pcc/products/en/netwcam/>

2.7.2 Connecting the Camera to a Router that Does Not Support UPnP™ (IPv4 Only)

1.

- (1) (4)
- (2) (11).
- (3)

Note

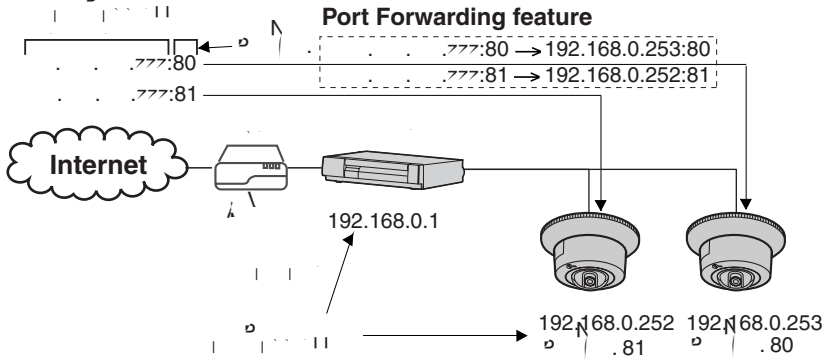
- (4)
- (5)

2.

1-(3),

3.

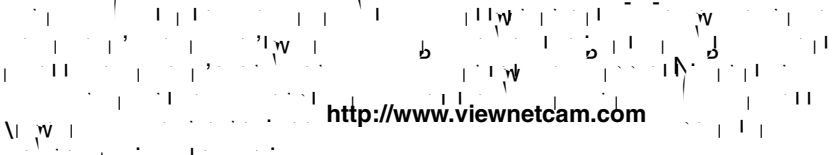
Port Forwarding feature*1 (IPv4 Only)



Note

-

2.8 Registering with the DynamicDNS Service

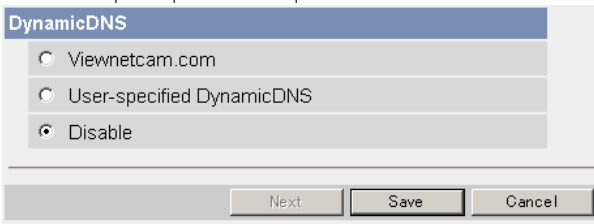


1.



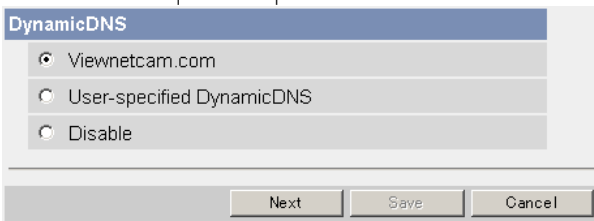
When you select [Disable]

2.



When you select [Viewnetcam.com]

2.



3.

Viewnetcam.com configuration

Personal (Camera) URL

Your Account Link

Save Cancel

Setting	Description
Personal (Camera) URL	Personal (Camera) URL
Your Account Link	Your Account Link

4.

5.

6.

Your Account Link.

Note

(1)

(2)

7. Click **Dynamic DNS**.
8. Click **Dynamic DNS** (Figure 11).

Note

30

31

32

Confirming Internet access

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34

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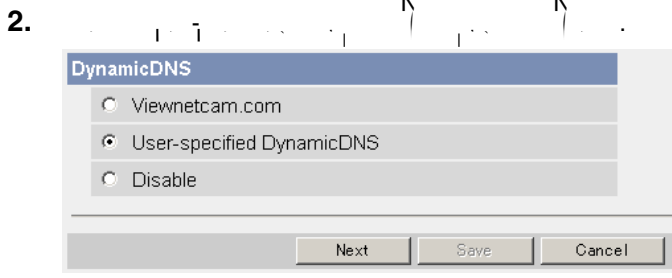
97

98

99

100

When you select [User-specified DynamicDNS]



101

102

103

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111

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119

120

3.

User-specified DynamicDNS

DynamicDNS Server URL (1 to 255 Characters)	<input style="width: 90%;" type="text"/>
Updating time	10 min ▼

Input User Name and Password

User Name (0 to 63 Characters)	<input style="width: 90%;" type="text"/>
Password (0 to 63 Characters)	<input style="width: 90%;" type="password"/>

Setting	Description
*1	255
*2	63
*2	63

4.

5.

Note

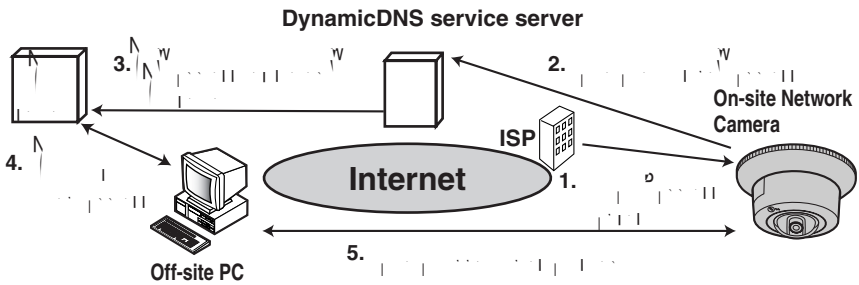
Confirming Internet access

- k ... (... 11)
- k ... (... 32)

2.8.1 DynamicDNS Service (IPv4/IPv6)

What are the advantages of DynamicDNS service?

How the DynamicDNS service works



1.

2.

3.

4.

5.

Note

- 80, Number
- 80: [http://\(Cameraname\).viewnetcam.com](http://(Cameraname).viewnetcam.com)
- : [http://\(Cameraname\).viewnetcam.com:Port](http://(Cameraname).viewnetcam.com:Port)

2.9 Setting the Date and Time

Note

- 1.
- 2.

Time Setting			
Date	Month <input type="text" value="Jun"/>	Day <input type="text" value="1"/>	Year <input type="text" value="05"/>
Format	<input type="text" value="AM/PM"/>	<input type="text" value="24H"/>	
Time	Hour <input type="text" value="7"/>	Minute <input type="text" value="0"/>	<input type="text" value="PM"/>
Automatic Time Adjustment			
<input type="checkbox"/> Enable			
NTP Server Address or Host Name	<input type="text"/>		
Time Zone	<input type="text" value="GMT-05:00 Eastern Time"/>		
Adjust Clock for Daylight Saving Time			
<input type="checkbox"/> Enable			
Start Day:	Month <input type="text" value="Apr"/>	Weekday <input type="text" value="First Sunday"/>	Hour <input type="text" value="2"/> <input type="text" value="AM"/>
End Day:	Month <input type="text" value="Oct"/>	Weekday <input type="text" value="Last Sunday"/>	Hour <input type="text" value="2"/> <input type="text" value="AM"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>			

Setting	Description
	<p>(/ 24).</p>
	<p>255) "192.168.0.253". (0 "0.0.0.0" "255.255.255.255" b 6, 8 "2001:2:3:4::5" Q (1 255).</p> <p>Note</p>
	<p>Note</p>

- 3.
- -

4.

-

Note

-

2.10 Changing Camera Settings

1. Press the **W** button to open the camera settings menu.

1. Press the **W** button to open the camera settings menu.

2. Press the **W** button to open the camera settings menu.

— Press the **W** button to open the camera settings menu.

Setting	Description
	<p>176)</p> <p>(1 15 2- 1-N)</p> <p>1 7 & , < , ></p>
	<p>() (2800<)</p> <p>() (3600<)</p> <p>() (4000<)</p> <p>() (6000<)</p> <p>Note</p>
	<p>Note</p>

3.


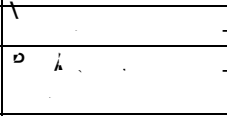

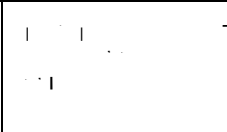
- $\frac{1}{2} \frac{d}{dt} (v^2) = \frac{1}{2} \frac{d}{dt} (v^2)$
- $\frac{1}{2} \frac{d}{dt} (v^2) = \frac{1}{2} \frac{d}{dt} (v^2)$

4.

- $\frac{1}{2} \frac{d}{dt} (v^2) = \frac{1}{2} \frac{d}{dt} (v^2)$

2.11 Adjusting Audio

1. 
2. 

Setting	Description
	Speakers are used for audio playback. The default setting is 'Speaker'.
	Volume (1 to 60)
	Equalizer (Off)
	Bass (Off)

3.

- $\frac{1}{2} \int_0^1 \frac{1}{x^2} dx$
- $\int_0^1 \frac{1}{x^2} dx$
- $\int_0^1 \frac{1}{x^2} dx$
- $\int_0^1 \frac{1}{x^2} dx$

4.

- $\int_0^1 \frac{1}{x^2} dx$

3 Registering Users

3.1 Changing the Authentication Setting and Administrator User Name and Password

Note

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-
-

IMPORTANT

-

1. ...
2. ...

General Authentication

Permit access from guest users
 Permit access from guest users (mobile only)
 Do not permit access from guest users

Administrator Authentication

User Name (8 to 15 Characters)
 Password (8 to 15 Characters)
 Retype Password

Setting	Description
	<p>3</p> <p>Note</p> <p>Support Login</p>

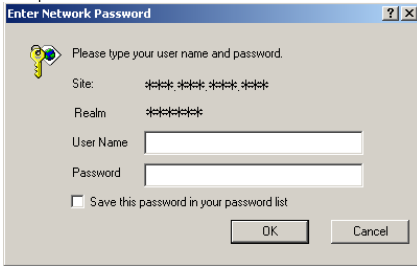
Setting	Description
	<p>(6 15):</p> <p>Note</p> <p>176).</p> <p>"," , & , < , > :</p>

Note

-
-
- 3. -
- 4. -
-

Note

-



Administrator/General Users/Guest Users

Items	Administrator	General Users	Guest Users	Guest Users (mobile only)
	1	50		

Note

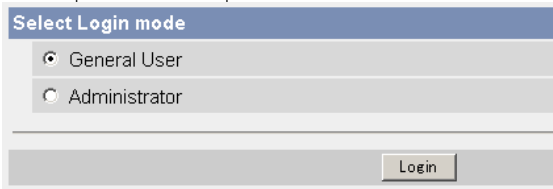
-

3.2 Logging in to the Camera

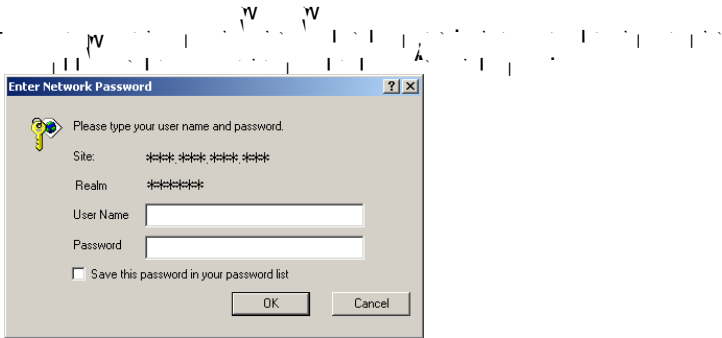
1.



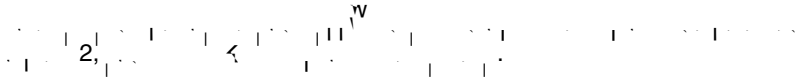
2.



Note



3.

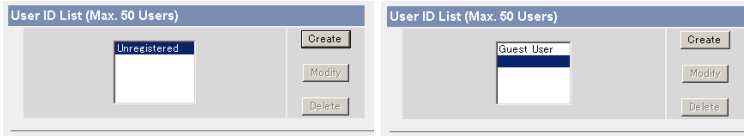


3.3 Creating, Modifying or Deleting General Users

50
()

Note

- 1.
- 2.



-
-

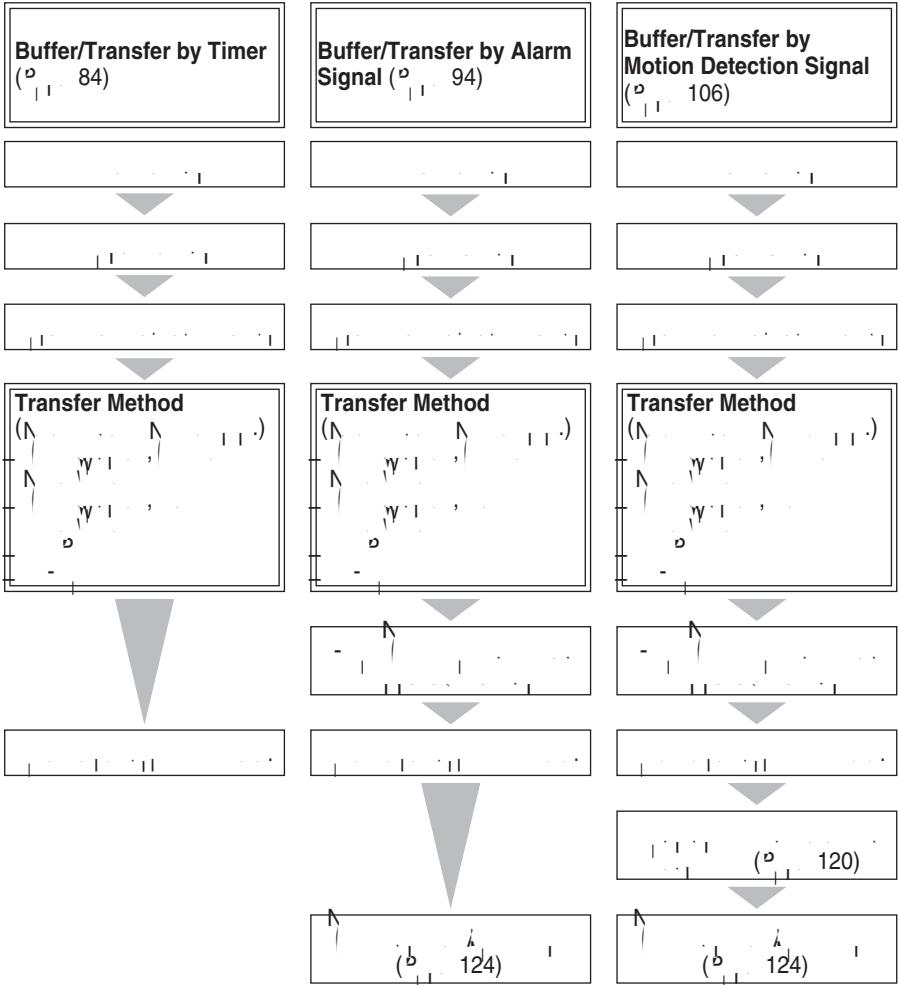
Setting	Description
	<p> () 10 60 () 3 60 () 23 () 23 () 23 () 23 () 23 () 22 () 25 () 25 () 27 () 29 </p>

4.
 -
 -
5.
 -

4 Buffering or Transferring Images

4.1 Procedures of Buffering or Transferring Images

117



4.2 Buffering or Transferring Images by Timer

Note

- 1.
2. No.

Trigger											Active Time of Trigger	Transfer Method	Notify
No	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat				
1	OFF	Timer	X	X	X	X	X	X	X		Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X		Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X		Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X		Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X		Always	No Transfer, No Memory Overwrite	-

- 3.

Trigger Setting

Enable Image Buffer/Transfer

Trigger:

Note

Setting	Description

Setting	Description
1	2

4.

Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Always
AM 12 h 0 min to PM 11 h 59 min							

< Back Next > Cancel

Note

(67).

Setting	Description
1	2

5.

Image Setting

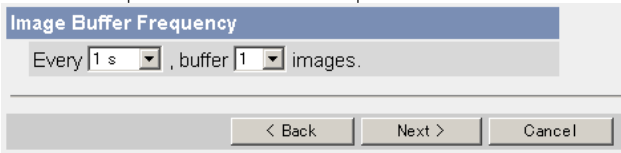
Image Resolution	320x240
Image Quality	Standard

< Back Next > Cancel

<

Setting	Description
Image Buffer Frequency	Every 1 s, buffer 1 images. (640 480, 320 240 (1))
	<p>Note</p> <p>640 480</p>

6. >



<

Note

1

Setting	Description
Image Buffer Frequency	(1 30)

7.

Note

- If you select **No Transfer, No Memory Overwrite**, the device does not transfer files to the PC and does not overwrite files on the PC. (See page 41).

Setting	Description
	If you select No Transfer, No Memory Overwrite , the device does not transfer files to the PC and does not overwrite files on the PC. (See page 41).
	If you select No Transfer, Memory Overwrite , the device does not transfer files to the PC but overwrites files on the PC. (See page 41).
	If you select FTP , the device transfers files to the PC via FTP. (See page 88).
	If you select E-mail , the device transfers files to the PC via e-mail. (See page 90).

When you set [FTP] for Transfer Method

FTP	
Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 21)	<input type="text" value="21"/>
Login ID (0 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
Login Timing	<input type="text" value="Every Time"/>
Upload File Name (1 to 234 Characters)	<input type="text"/>
Overwrite setting	<input type="text" value="Overwrite File"/>
Data Transfer Method	<input type="text" value="Passive Mode"/>
<input type="button" value=" < Back"/> <input type="button" value=" Save"/> <input type="button" value=" Cancel"/>	

Setting	Description
Server IP Address or Host Name	"192.168.0.253" (0 255) 3 "255.255.255.255" (1 255)
Port No. (Usually Use 21)	(1 65535) 21
Login ID (0 63 Characters)	(0 63)
Password (0 63 Characters)	(0 63)
Upload File Name (1 to 234 Characters)	234

Setting	Description
	<p data-bbox="437 318 671 342"><u>20060101093020500.</u></p> <p data-bbox="416 342 841 399">"9 30 . 20 500 1, 2006".</p>

*1
*2

When you set [E-mail] for Transfer Method

E-mail Transfer	
SMTP Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 25)	<input type="text" value="25"/>
Reply E-mail Address	<input type="text"/>
Destination E-mail Address 1	<input type="text"/>
Destination E-mail Address 2	<input type="text"/>
Destination E-mail Address 3	<input type="text"/>
Subject (Up to 44 Characters)	<input type="text"/>
Text (Up to 63 Characters)	<input type="text"/>
How to authenticate	
<input checked="" type="radio"/> No authentication	
<input type="radio"/> POP before SMTP authentication	
POP3 Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 110)	<input type="text" value="110"/>
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="radio"/> SMTP authentication	
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="button" value=" < Back"/> <input type="button" value=" Save"/> <input type="button" value=" Cancel"/>	

Note

20060101093020500"

"9 30 . 20 500

1, 2006".

Setting	Description
<p>3 "255.255.255.255" (1 255</p>	<p>"192.168.0.253". (0 255) "0.0.0.0" 6</p>
<p>(1 65535).</p>	<p>25.</p>
<p>*2</p>	<p></p>
<p>*2 1 3</p>	<p>(3).</p>
<p>*2 1-</p>	<p>(0 44 176) 0 22 2-</p>
<p>*2 1-</p>	<p>(0 63 176) 0 31 2-</p>

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4. (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. *2. 63 (1). 63 (0). *2. (1 63). *2. (0 63).</p>

*1
*2

8. $\frac{1}{2} \int_{-\infty}^{\infty} \delta(x) dx = \frac{1}{2}$

9. $\int_{-\infty}^{\infty} \delta(x) dx = 1$

Note

- $\int_{-\infty}^{\infty} \delta(x) dx = 1$
- $\int_{-\infty}^{\infty} \delta(x) dx = 1$

4.3 Buffering or Transferring Images by Alarm Signal

Note

1.

2.

Trigger												
No.	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

3.

Trigger Setting

Enable Image Buffer/Transfer

Trigger: Alarm1

Alarm enable condition: Rising: GND to Open (High)

Delete Buffered Images

Next >
Save
Cancel

Note

Setting	Description

4. >

Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/> Always <input type="radio"/> AM <input type="text" value="12"/> h <input type="text" value="0"/> min to <input type="radio"/> PM <input type="text" value="11"/> h <input type="text" value="59"/> min

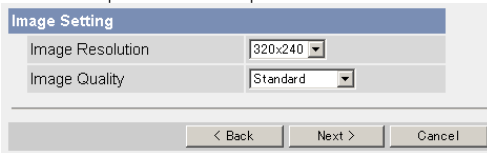
- <
- w

Note

- w / (67).

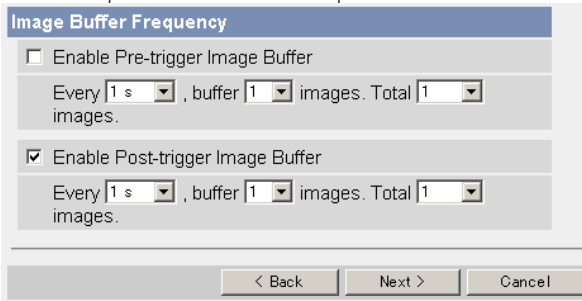
Setting	Description

5.



Setting	Description
	(640 480, 320 240 (...))
	<p>Note</p> <p>640 480</p>

6.



Note

Setting	Description
Transfer Method	Transfer Method (177)
Transfer Method	Transfer Method (177)

7.

Transfer Method

No Transfer, No Memory Overwrite

No Transfer, Memory Overwrite

FTP

E-mail

Note

45). (41)

Setting	Description
v	
v	
p	99).
-	- (101).

When you set [FTP] for Transfer Method

FTP	
Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 21)	<input type="text" value="21"/>
Login ID (0 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
Login Timing	<input type="text" value="Every Time"/>
Upload File Name (1 to 234 Characters)	<input type="text"/>
Overwrite setting	<input type="text" value="Overwrite File"/>
Data Transfer Method	<input type="text" value="Passive Mode"/>

Setting	Description
Server IP Address or Host Name	IP address of the server (0 255). "192.168.0.253". "255.255.255.255". "0.0.0.0".
Port No.	Port number (1 65535). 21.
Login ID	0 to 63 characters.
Password	0 to 63 characters.
Login Timing	Every Time
Upload File Name	1 to 234 characters.
Overwrite setting	Overwrite File
Data Transfer Method	Passive Mode

Setting	Description
	<p data-bbox="437 318 671 342"><u>20060101093020500.</u></p> <p data-bbox="416 342 841 399">1, 2006 . 9 30 . 20 500</p>

*1
*2

When you set [E-mail] for Transfer Method

E-mail Transfer	
SMTP Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 25)	<input type="text" value="25"/>
Reply E-mail Address	<input type="text"/>
Destination E-mail Address 1	<input type="text"/>
Destination E-mail Address 2	<input type="text"/>
Destination E-mail Address 3	<input type="text"/>
Subject (Up to 44 Characters)	<input type="text"/>
Text (Up to 63 Characters)	<input type="text"/>
How to authenticate	
<input checked="" type="radio"/> No authentication	
<input type="radio"/> POP before SMTP authentication	
POP3 Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 110)	<input type="text" value="110"/>
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="radio"/> SMTP authentication	
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Cancel"/>	

Note

20060101093020500"

"9 30 20 500

1, 2006".

Setting	Description
<p>3 "255.255.255.255" (1 255</p>	<p>"192.168.0.253". (0 255) "0.0.0.0" 6</p>
<p>(1 65535).</p>	<p>25.</p>
<p>*2</p>	<p></p>
<p>*2 1 3</p>	<p>(3).</p>
<p>*2 1-</p>	<p>(0 44 176) 0 22 2-</p>
<p>*2 1-</p>	<p>(0 63 176) 0 31 2-</p>

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4. (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. *2. 63 (1). 63 (0). *2. (1 63). *2. (0 63).</p>

*1
*2

8.

E-mail notification when triggered

Disable

Enable

< Back Next > Cancel

102 103.

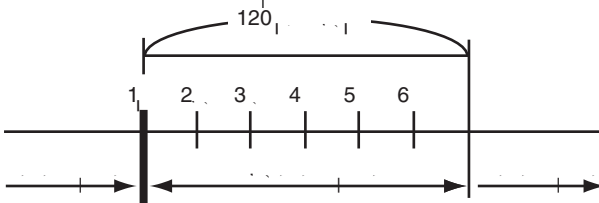
Setting	Description
	(3

9.

Note

10.

Note



W

- The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the success of any business and for the protection of the interests of all parties involved.

- The second part of the document provides a detailed overview of the various methods and techniques used to collect and analyze data. It covers a wide range of topics, including the design of surveys, the use of statistical software, and the interpretation of results.

- The third part of the document focuses on the practical application of these methods and techniques in a real-world setting. It provides a step-by-step guide to the process of data collection and analysis, from the initial planning stage to the final reporting stage.

- The fourth part of the document discusses the challenges and limitations of data collection and analysis. It highlights the importance of being aware of these issues and taking steps to minimize their impact on the results of the study.

- The fifth part of the document provides a summary of the key findings and conclusions of the study. It emphasizes the need for ongoing research and the importance of staying up-to-date on the latest developments in the field.

4.4 Buffering or Transferring Images by Motion Detection Signal

Note

- 1.
- 2.

Trigger												
No.	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

- 3.

Trigger Setting

Enable Image Buffer/Transfer

Trigger Motion Detection ▾

Note

Setting	Description
<p>1</p>	<p>2</p>

4.

Time

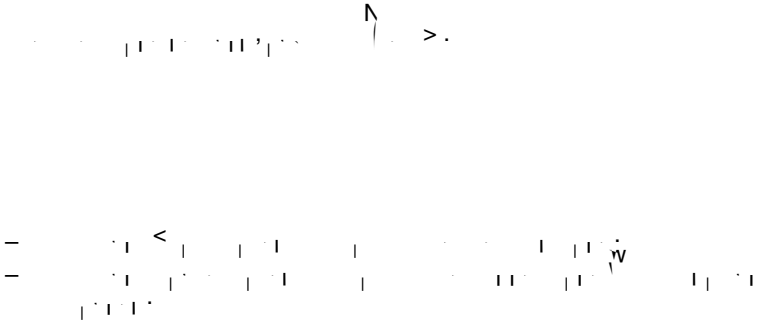
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/> Always <input type="radio"/> AM <input type="text" value="12"/> h <input type="text" value="0"/> min to <input type="radio"/> PM <input type="text" value="11"/> h <input type="text" value="59"/> min

< Back Next > Cancel

Note

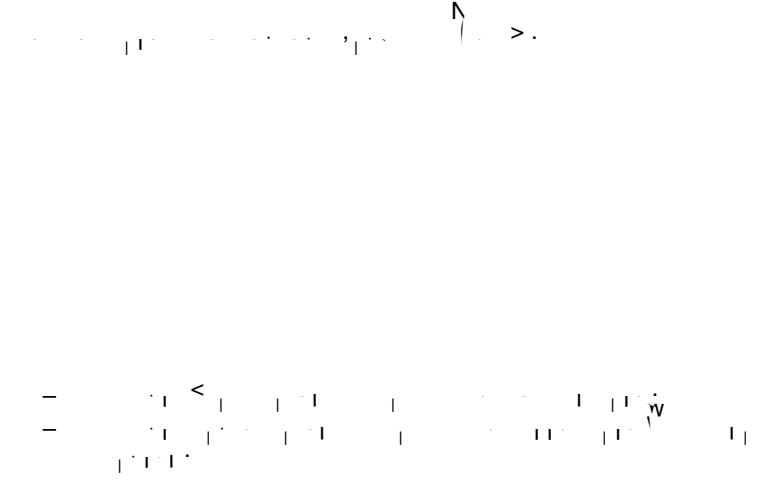
Setting	Description
<p>1</p>	<p>2</p>

5.



Setting	Description
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(640 480, 320 240)

6.



Note

Setting	Description

7.

Transfer Method

- No Transfer, No Memory Overwrite
- No Transfer, Memory Overwrite
- FTP
- E-mail

< Back Next > Cancel

Note

45).

Setting	Description
[Setting Name]	[Description]
[Setting Name]	[Description]
[Setting Name]	[Description]
[Setting Name]	[Description]

When you set [FTP] for Transfer Method

FTP	
Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 21)	<input type="text" value="21"/>
Login ID (0 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
Login Timing	<input type="text" value="Every Time"/>
Upload File Name (1 to 234 Characters)	<input type="text"/>
Overwrite setting	<input type="text" value="Overwrite File"/>
Data Transfer Method	<input type="text" value="Passive Mode"/>

Setting	Description
Server IP Address or Host Name	IP address of the server (0 to 255). Example: "192.168.0.253" or "0.0.0.0" (1 to 255)
Port No. (Usually Use 21)	Port number (1 to 65535). Default: 21
Login ID (0 to 63 Characters)	Login ID (0 to 63 characters).
Password (0 to 63 Characters)	Password (0 to 63 characters).
Login Timing	Timing of login (Every Time).
Upload File Name (1 to 234 Characters)	Upload file name (1 to 234 characters).
Overwrite setting	Overwrite setting (Overwrite File).
Data Transfer Method	Data transfer method (Passive Mode).

When you set [E-mail] for Transfer Method

E-mail Transfer	
SMTP Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 25)	<input type="text" value="25"/>
Reply E-mail Address	<input type="text"/>
Destination E-mail Address 1	<input type="text"/>
Destination E-mail Address 2	<input type="text"/>
Destination E-mail Address 3	<input type="text"/>
Subject (Up to 44 Characters)	<input type="text"/>
Text (Up to 63 Characters)	<input type="text"/>
How to authenticate	
<input checked="" type="radio"/> No authentication	
<input type="radio"/> POP before SMTP authentication	
POP3 Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 110)	<input type="text" value="110"/>
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="radio"/> SMTP authentication	
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Cancel"/>	

Note

(24-)

" :20060101093020500".

"9 30 20 500 1, 2006".

Setting	Description
	(0 255) "192.168.0.253" "255.255.255.255" (1 255)
	(1 65535). 25.
1 3	(3).
	(0 44 176) 1- 0 22 2-
	(0 63 176) 1- 0 31 2-

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4. (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. 63 (1 63 (0 (1 63 (0 63</p>

*1
*2

8.

E-mail notification when triggered

Disable

Enable

< Back Next > Cancel

114, 115.

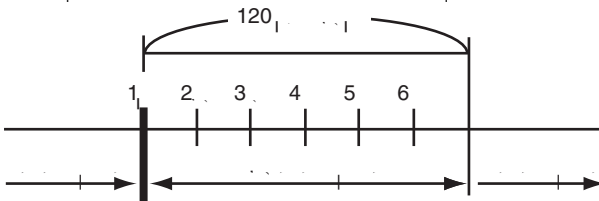
Setting	Description
	(3

9.

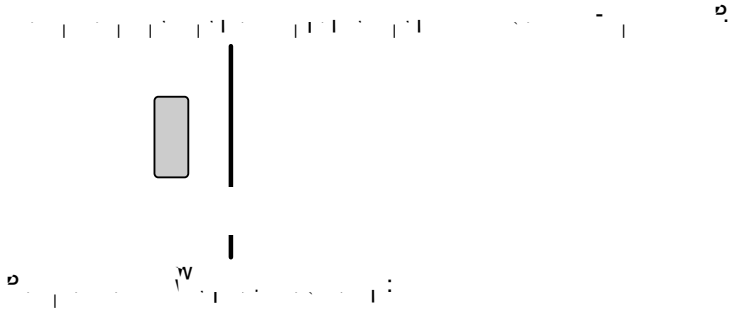
Note

10.

Note

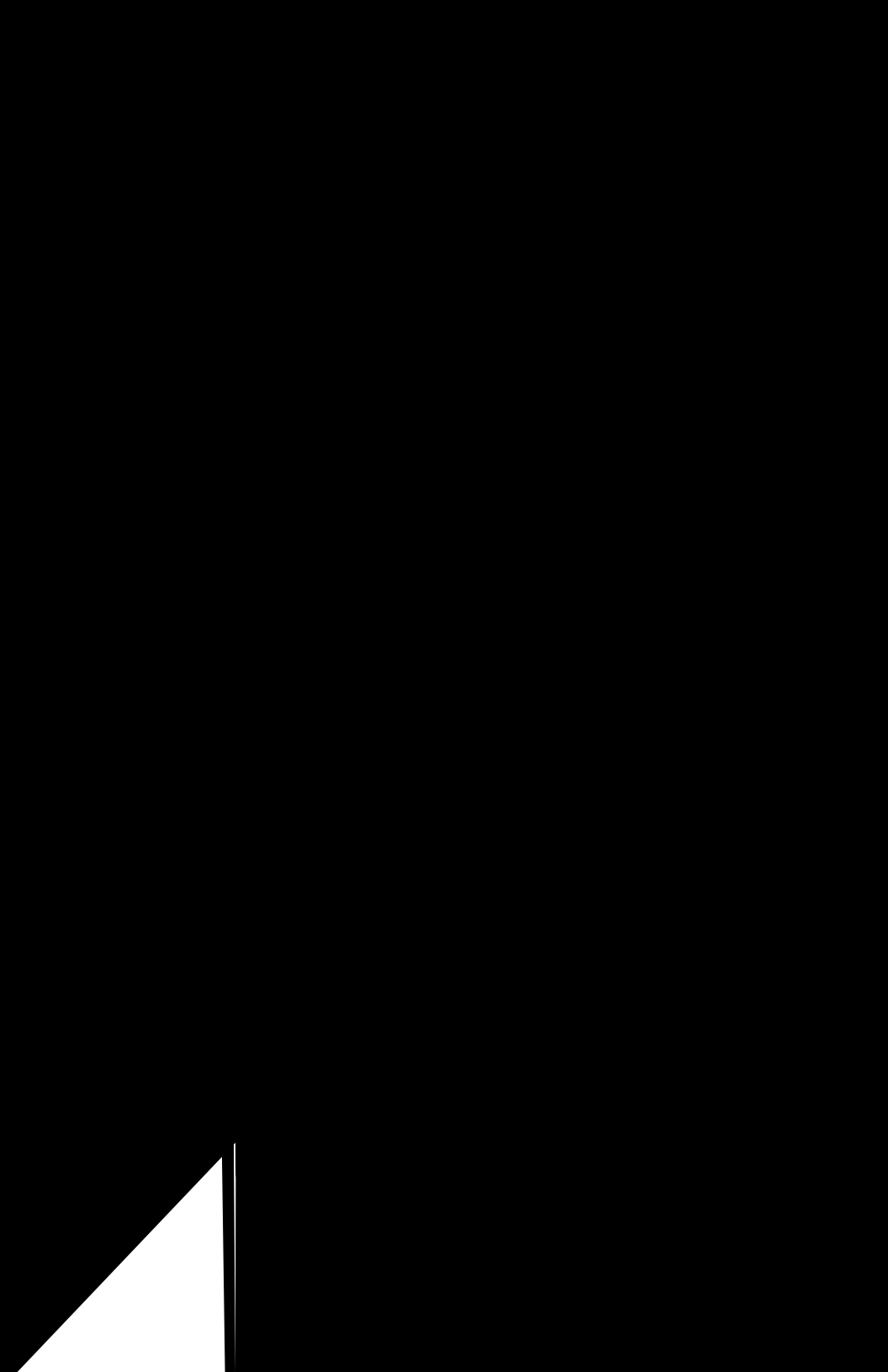


4.5 Transferring Camera Images in Transport Mode



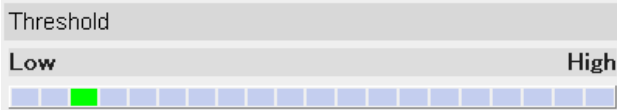
Item	Supported Feature
<ul style="list-style-type: none"> • Camera resolution: 1080p • Camera frame rate: 30 FPS • Camera field of view: 90 degrees • Camera zoom: 2x • Camera focus: Auto • Camera exposure: Auto • Camera white balance: Auto • Camera contrast: Auto • Camera saturation: Auto • Camera sharpness: Auto • Camera anti-flicker: Auto • Camera anti-banding: Auto • Camera anti-rolling shutter: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto 	<ul style="list-style-type: none"> • Camera resolution: 1080p • Camera frame rate: 30 FPS • Camera field of view: 90 degrees • Camera zoom: 2x • Camera focus: Auto • Camera exposure: Auto • Camera white balance: Auto • Camera contrast: Auto • Camera saturation: Auto • Camera sharpness: Auto • Camera anti-flicker: Auto • Camera anti-banding: Auto • Camera anti-rolling shutter: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto
<ul style="list-style-type: none"> • Camera resolution: 1080p • Camera frame rate: 30 FPS • Camera field of view: 90 degrees • Camera zoom: 2x • Camera focus: Auto • Camera exposure: Auto • Camera white balance: Auto • Camera contrast: Auto • Camera saturation: Auto • Camera sharpness: Auto • Camera anti-flicker: Auto • Camera anti-banding: Auto • Camera anti-rolling shutter: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto 	<ul style="list-style-type: none"> • Camera resolution: 1080p • Camera frame rate: 30 FPS • Camera field of view: 90 degrees • Camera zoom: 2x • Camera focus: Auto • Camera exposure: Auto • Camera white balance: Auto • Camera contrast: Auto • Camera saturation: Auto • Camera sharpness: Auto • Camera anti-flicker: Auto • Camera anti-banding: Auto • Camera anti-rolling shutter: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto • Camera anti-aliasing: Auto • Camera anti-dithering: Auto

50

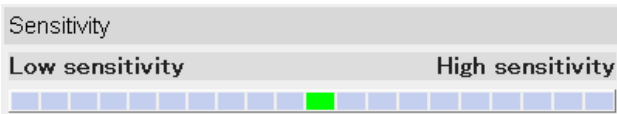


4.7 Setting the Motion Detection

- 1.
- 2.



- 3.



- 4.

- 5.

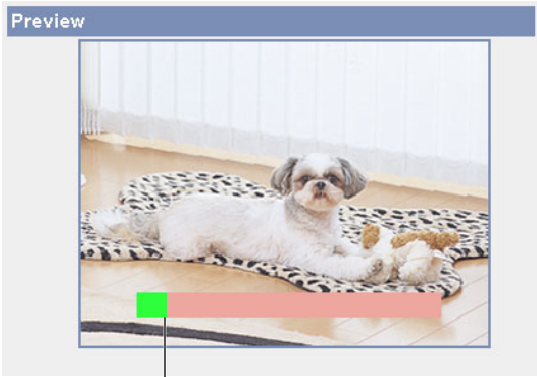
Setting	Description
Threshold	Adjusts the sensitivity of the motion detection sensor. A low threshold setting means that the sensor will detect even small movements, while a high threshold setting means that the sensor will only detect large movements.
Sensitivity	Adjusts the sensitivity of the motion detection sensor. A low sensitivity setting means that the sensor will only detect large movements, while a high sensitivity setting means that the sensor will detect even small movements.

Note

- The motion detection sensor is only active when the camera is in motion.

Preview

-
-
-
-



Note

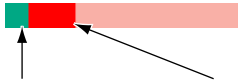
-

What is “threshold”?

Threshold is the level of sensitivity required for a motion detector to detect motion. It is the point at which the detector starts to register movement. A higher threshold means the detector is less sensitive and will only detect larger movements. A lower threshold means the detector is more sensitive and will detect smaller movements.

What is “sensitivity”?

Sensitivity is the ability of a motion detector to detect small movements. It is the opposite of threshold. A higher sensitivity means the detector can detect smaller movements. A lower sensitivity means the detector can only detect larger movements.



Motion Detection	
Threshold	
Low	High
Sensitivity	
Low sensitivity	High sensitivity

Note

Threshold and sensitivity are inverse concepts. A high threshold corresponds to low sensitivity, and a low threshold corresponds to high sensitivity.



Motion Detection	
Threshold	
Low	High
Sensitivity	
Low sensitivity	High sensitivity

Note

When adjusting a motion detector, it is important to understand the relationship between threshold and sensitivity. If you want the detector to be more sensitive (detect smaller movements), you should lower the threshold. Conversely, if you want the detector to be less sensitive (detect only larger movements), you should raise the threshold.

4.8 Setting Alarm Log Notification

1.

2.

A setup of operation

Disable

Enable(When there is no new-arrival alarm log.Disable)

Enable(When there is no new-arrival alarm log.Enable)

Active Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PM 12 h 0 min

Notice setup of an alarm log

SMTP Server IP Address or Host Name:

Port No. (Usually Use 25):

Reply E-mail Address:

Destination E-mail Address 1:

Destination E-mail Address 2:

Destination E-mail Address 3:

Subject (Up to 44 Characters):

How to authenticate

No authentication

POP before SMTP authentication

POP3 Server IP Address or Host Name:

Port No. (Usually Use 110):

Login ID (1 to 63 Characters):

Password (0 to 63 Characters):

SMTP authentication

Login ID (1 to 63 Characters):

Password (0 to 63 Characters):

Save Cancel

3.

4.

Note

Setting	Description
	(0 255) "192.168.0.253" (0 255) "0.0.0.0" "255.255.255.255" (1 255)
	(1 65535) 25.
	(3).
	(44 176) (0 22) (2-)

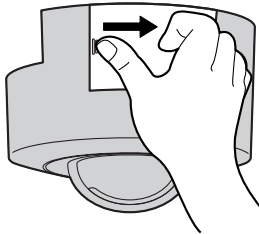
Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p>

*1
*2

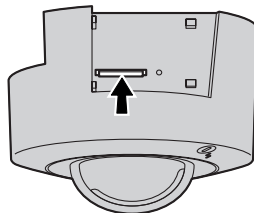
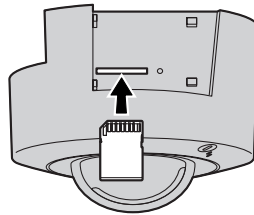
4.9 Using the SD Memory Card

Note

- For details on the SD Memory Card, refer to page 129.
 - For details on the SD Memory Card, refer to the following URL:
<http://panasonic.co.jp/pcc/products/en/netwkcaml>
1. Push the cover to the right.
 - 2.



3. Insert the SD Memory Card into the slot.
4. Push the cover to the left.



4.9.1 Format the SD Memory Card

Note

- 1.
- 2.
- 3.

Trigger												
No	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

SD memory card

To format the SD memory card or stop SD recording, click the desired button below.
 To stop SD recording, click the SD video recording stop button.

- 4.
- 5.

4.9.2 Start the SD Memory Recording

Note

- 1.
- 2.

Trigger												
No	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

SD memory card

To format the SD memory card or start SD recording, click the desired button below.
To start SD recording, click the SD video recording start button.

- 3.
- 4.

Note

4.9.3 Stop the SD Memory Recording

Note

- 1.
- 2.

Trigger												
No.	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

SD memory card

To format the SD memory card or stop SD recording, click the desired button below.
To stop SD recording, click the SD video recording stop button.

- 3.
- 4.

Note

5 Using Other Features

5.1 Changing Initial Settings on the Single Camera page or the Multi-Camera page

- 1.
- 2.

Single Camera	
Image Resolution	320x240
Image Quality	Standard
Refresh Interval	Motion

Multi-Camera	
Image Resolution	320x240
Image Quality	Standard
Refresh Interval	Motion

Time stamp setting	
Time stamp	Disable

Language	
Language	English

Banner Display	
<input type="checkbox"/> Enable	
Banner user	All users
Image URL (1 to 127 Characters)	
Link URL (0 to 127 Characters)	

Save Cancel

Setting	Description
	640 480 () 320 240 () 160 120 ()
	()
	(), 3, 5, 10, 30, 60
	<p>Note</p> <ul style="list-style-type: none"> - - /p 24
	<
	<p>Note</p> <ul style="list-style-type: none"> - -

Setting	Description
	<p>^</p> <p>^</p> <p>^</p> <p>^</p>
*1	<p>v</p> <p>127</p> <p>)</p> <p>(1</p>
*1	<p>w</p> <p>w</p> <p>w</p> <p>(0 127</p> <p>)</p>

*1 ^ " , & , < , > ,

3. v

- w

- "

4. "

- "

5.2 Configuring Multiple Cameras

- 1.
2. **Add.**

No.	Display	IP Address or Host Name	Port No.	Camera Name
1	On	selfcamera	--	XXXXXXXX
Add				

Note

Change Camera Order

From No. 1 To No. 1

- 3.

Add Camera

Display	<input checked="" type="checkbox"/> On
IP Address or Host Name	<input type="text"/>
Port No. (1 to 65535)	<input type="text"/>
Camera Name (1 to 15 characters)	<input type="text"/>

[Clicking this link, enters this camera's settings.](#)

Setting	Description
*1	
*2	(1 65535).
*3	

*1 4, 4, (0 255) 3 "192.168.0.253".
 "0.0.0.0" "255.255.255.255"
 *2 6, (176).
 &, %, =, +, *, <, >
 *3 1 255 (176) (1 15
 1- 1 7 2-)
 #, &, %, =, +, *, <, >

Note

4.
 -
 -
 -
 -

5.3 Specifying Operation Time

Note

- 1.
- 2.

Operation Time									
No.	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Operation Time
1	Disable	X	X	X	X	X	X	X	Always
2	Disable	X	X	X	X	X	X	X	Always
3	Disable	X	X	X	X	X	X	X	Always
4	Disable	X	X	X	X	X	X	X	Always
5	Disable	X	X	X	X	X	X	X	Always
6	Disable	X	X	X	X	X	X	X	Always
7	Disable	X	X	X	X	X	X	X	Always

Note

- 3.

Operation Time									Operation Time					
Enable	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Always	AM	12	h	0	min	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	AM	12	h	0	min
									to	AM	12	h	0	min

Setting	Description
1	...
2	...
3	...

4. ...
- ...
 - ...

About Operation Time

...

No.	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Operation Time
1	Enable	X	X		X	X	X	X	Always
2	Enable	X		X	X	X	X	X	Always

5.4 Controlling External Output

- 1.
- 2.

External Device Control Output

Open

Short to GND

Button name modification

Open (1 to 6 Characters)

Short to GND (1 to 6 Characters)

-
-
-

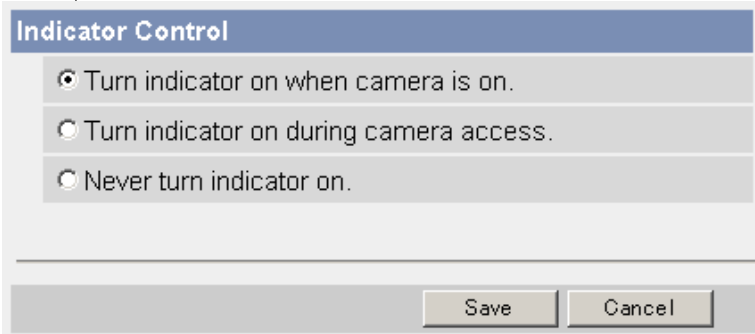
Setting	Description
External Device Control Output	Controls the output of the external device. The 'Open' option is selected by default.
Button name modification	Allows you to modify the button names for the 'Open' and 'Short to GND' options. The names must be 1 to 6 characters long.

- 3.

-

5.5 Changing the Indicator Display

1. Tap **Indicator Control**.
2. Tap the radio button next to the option you want to use:



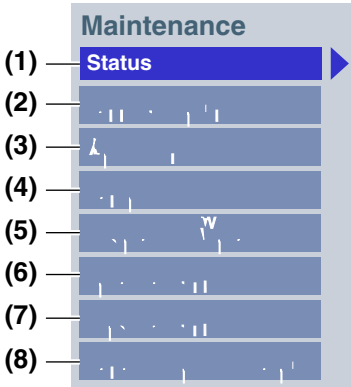
3. Tap **Save**.
4. Tap **Cancel**.

Note

3. Tap **Save**.
4. Tap **Cancel**.

6 Camera Maintenance

6.1 Maintenance page



Maintenance

- (1) **Status** [142\).](#)
 - (2) **Session Status** [142\).](#)
 - (3) **Alarm Log** [143\).](#)
 - (4) **Restart** [144\).](#)
 - (5) **Update Firmware** [145\).](#)
 - (6) **Save Settings** [147\).](#)
 - (7) **Load Settings** [148\).](#)
 - (8) **Reset to Factory Default** [149\).](#)
-

6.1.1 Confirming the Status

Version	
Displays Hardware/Firmware Version.	
Model	*****
Firmware(Boot)	* **
Firmware(Application)	* **

Note

<http://panasonic.co.jp/pcc/products/en/netwcam/>

6.1.2 Confirming Session Status

Number of Sessions		
Show number of motion and audio sessions.		
Div	Max Sessions	Now Sessions
Motion	30	1
Audio	10	1

List of Sessions		
Display max 40 tables connecting now.		
Table Part	User	

6.1.3 Confirming Alarm Logs

1.

2.

		New Alarm Logs
		3
Date	Sensor Type	Signal Type
2005/ 5/19 13:24:32	Motion Detection	----
2005/ 5/19 13:22:53	Alarm2	Fall
2005/ 5/19 13:21:36	Alarm1	Rise

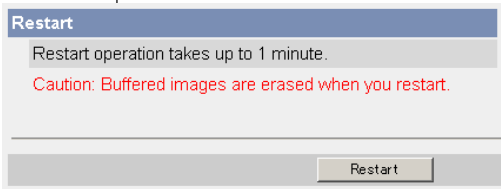
Note

Item	Description
	1, 2,
	(1, 2,
	1 2.

6.1.4 Restarting the Camera

Note

- The camera will restart automatically if the power is interrupted.
 - The camera will restart automatically if the power is interrupted.
1. Press the **Restart** button.
 2. The camera will restart.



– Press the **Restart** button.

6.1.5 Updating the Camera Firmware

Note

- 1.
- 2.
- 3.

<http://panasonic.co.jp/pcc/products/en/netwkcaml/>

Update Firmware

You can update to the latest version of the camera internal operating system. Click on "Update Firmware" below. Depending on the speed of your system, the procedure can take up to 4 minutes.

Caution: (1)Buffered images are erased when you execute this function.
(2)Never turn off the power during the firmware update process.

Update Firmware

Restarting now...

Restart operation takes up to 1 minute.

Please enter the proper IP address to URL when no response.

Please enter or browse the firmware file name for update.

File Name Browse...

The firmware update process takes about 180 seconds via "File Upload", "Flash-ROM Writing", and "Restart", automatically. To cancel the firmware update, please push "Cancel".

Caution: Never turn off the power, during the firmware update process.

Update Firmware

Cancel

4.

5.

6.

Updating firmware.

Please wait about 160 seconds.

Caution: Never turn off the power, during the firmware update process.

Restarting now...

Restart operation takes up to 1 minute.

Please enter the proper IP address to URL when no response.

7.



6.1.6 Creating the Configuration File

1. In the **Configuration** pane, click **Configuration File** (see Figure 148).

Note

– The **Configuration File** pane is only available when the **Configuration** pane is open.

1. Click **Save Settings**.
2. Click **Save**.



3. Click **OK**.
4. The **Configuration File** pane is now empty.

– The **Configuration File** pane is only available when the **Configuration** pane is open.

Note

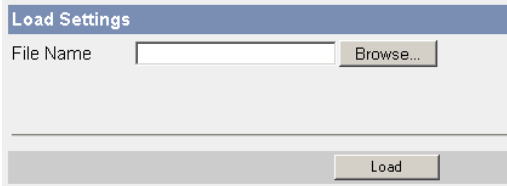
– The **Configuration File** pane is only available when the **Configuration** pane is open.

– The **Configuration File** pane is only available when the **Configuration** pane is open.

6.1.7 Loading Settings from a Configuration File

Note

1. Click **File** > **Load Settings**.
2. In the **Load Settings** dialog box, click **Browse...** to select the configuration file.



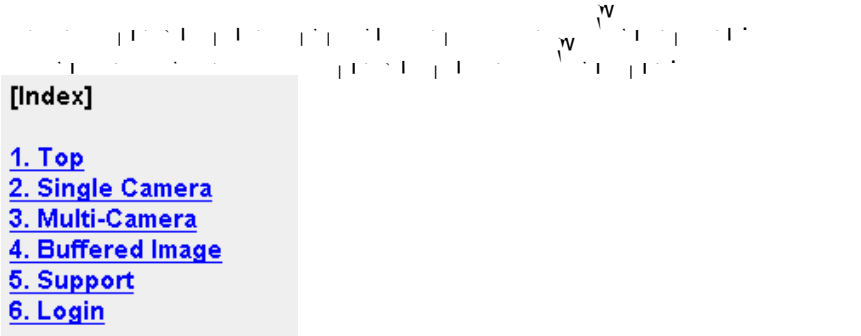
3. Click **Load** to load the settings from the selected configuration file.
4. The settings are loaded from the configuration file.
5. The **Load Settings** dialog box is closed.

6.2 Support page



Support	
(1) Help	Help provides information on how to use the camera and how to solve problems.
(2) Product Information	Product information provides information on the camera's features and specifications.
(3) Support Information	Support information provides information on how to contact customer support.

6.2.1 The Help page



6.2.2 Product Information

Product information provides information on the camera's features and specifications.

Note

6.2.3 Support Information

Support information provides information on how to contact customer support.

Note

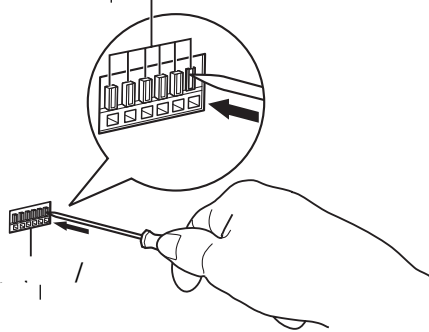
6.3 External I/O

Explanation of the External I/O

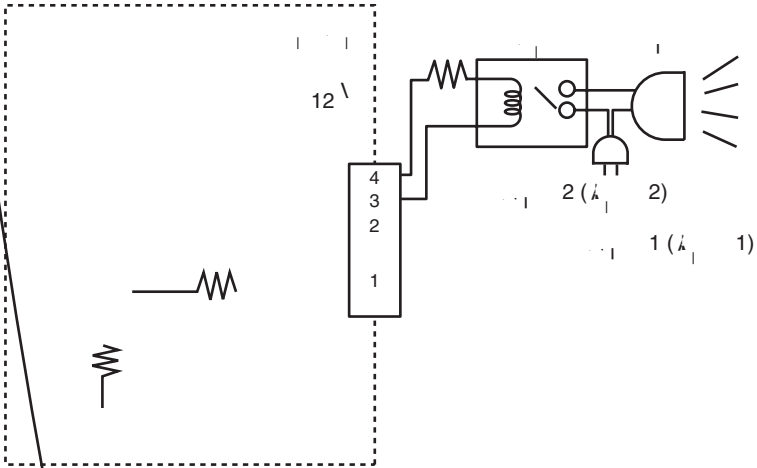
Pin	Features
1	1
2	2
3	139). 4. (4).
4	10.5 13 \ 100

Note

- (/ (/)) 139.
- / w /



Circuit Diagram Example

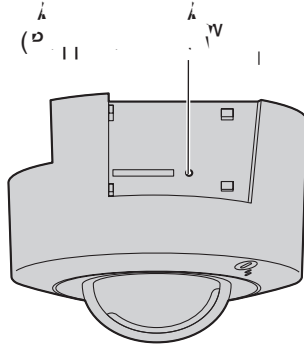


CAUTION

- The external I/O is not capable of connecting directly to devices that require large amounts of current. In some cases, a custom interface circuit (customer-provided) may have to be used. Serious damage to the camera may result if a device that exceeds its electrical capability is connected to the external I/O (see page 151).
- Low voltage/current circuits and high voltage/current circuits are used in the camera circuit. All wiring should be performed by a qualified electrician. Incorrect wiring could damage the camera and cause a fatal electric shock.

7 Other Information

7.1 FACTORY DEFAULT RESET Button

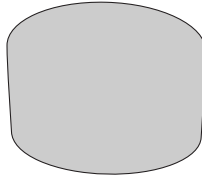


Note

- 24-
- 166
- 67.
- 5
- 1

7.2 Cleaning

10),



Note

-
-

7.3 Setting an IP Address on Your PC

1. Open the Control Panel, click on Network and Sharing Center, click on Change adapter settings, right-click on the network adapter you want to configure, click on Properties, click on Internet Protocol Version 4 (TCP/IPv4), click on Properties, click on Use the following IP address, click on OK, click on OK, click on OK.

OS	Steps
Windows 7	<p>1. Open the Control Panel, click on Network and Sharing Center, click on Change adapter settings, right-click on the network adapter you want to configure, click on Properties, click on Internet Protocol Version 4 (TCP/IPv4), click on Properties, click on Use the following IP address, click on OK, click on OK, click on OK.</p>
Windows 2000	<p>1. Open the Control Panel, click on Network and Dial-up Connections, right-click on the network adapter you want to configure, click on Properties, click on Internet Protocol (TCP/IP), click on Properties, click on Use the following IP address, click on OK, click on OK, click on OK.</p>
Windows 98	<p>1. Open the Control Panel, click on Network, click on Add, click on Protocol, click on Internet Protocol (TCP/IP), click on Properties, click on Use the following IP address, click on OK, click on OK, click on OK.</p>

2. Open the Control Panel, click on Network and Sharing Center, click on Change adapter settings, right-click on the network adapter you want to configure, click on Properties, click on Internet Protocol Version 4 (TCP/IPv4), click on Properties, click on Use the following IP address, click on OK, click on OK, click on OK.
3. Open the Control Panel, click on Network and Sharing Center, click on Change adapter settings, right-click on the network adapter you want to configure, click on Properties, click on Internet Protocol Version 4 (TCP/IPv4), click on Properties, click on Use the following IP address, click on OK, click on OK, click on OK.

Local IP Address

Class	Subnet Mask	Local IP Address
A	255. 0. 0. 0	10. 0. 0. 1
B	255. 255. 0. 0	172. 16. 0. 1
C	255. 255. 255. 0	192. 168. 0. 1

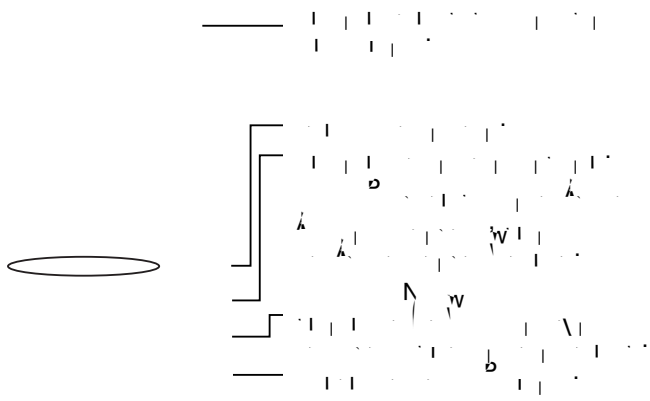
Class	Subnet Mask	Local IP Address
A	255. 0. 0. 0	10. 0. 0. 1
B	255. 255. 0. 0	172. 16. 0. 1
C	255. 255. 255. 0	192. 168. 0. 1

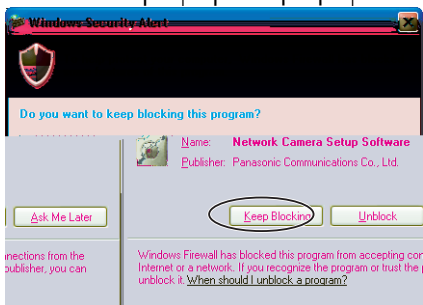
7.4 Using Setup Program

- Press **W** to select the camera type.
- Press **W** to select the camera model.
- Press **W** to select the camera resolution.
- Press **W** to select the camera frame rate.
- Press **W** to select the camera bit rate.
- Press **W** to select the camera codec.
- Press **W** to select the camera profile.
- Press **W** to select the camera preset.
- Press **W** to select the camera preset.
- Press **W** to select the camera preset.

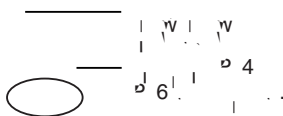
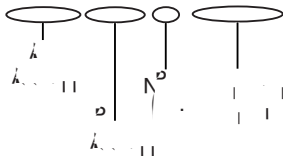
Finding the camera

1. Press **W** to select the camera type.
2. Press **W** to select the camera model.

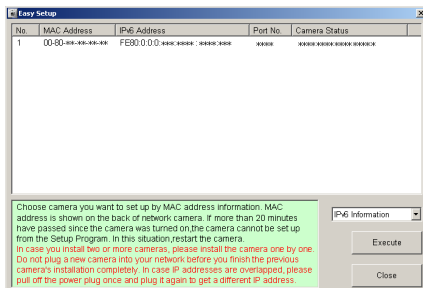




IPv4 Information



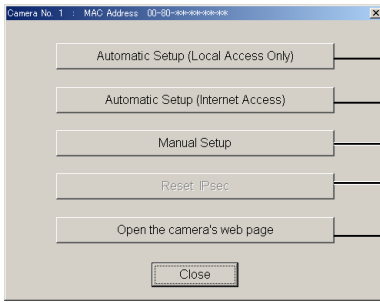
IPv6 Information



Note

Automatic Setup (Local or Internet Access) or Manual Setup

- 1.
- 2.



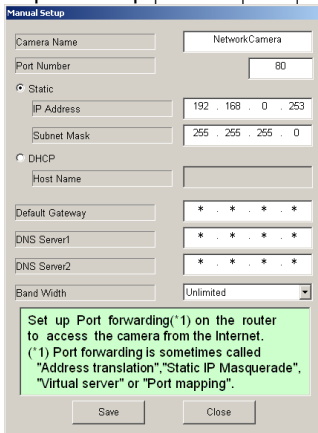
1. Click on "Automatic Setup (Local Access Only)" button.
2. Click on "Automatic Setup (Internet Access)" button.
3. Click on "Manual Setup" button.
4. Click on "Reset IP/enc" button.
5. Click on "Open the camera's web page" button.

Note

For more information, please refer to the "Manual Setup" window.

Manual Setup window

1. Click on "Manual Setup" button.
2. Click on "Static" radio button.
3. Enter IP Address, Subnet Mask, Default Gateway, DNS Server1, and DNS Server2.
4. Click on "Save" button.



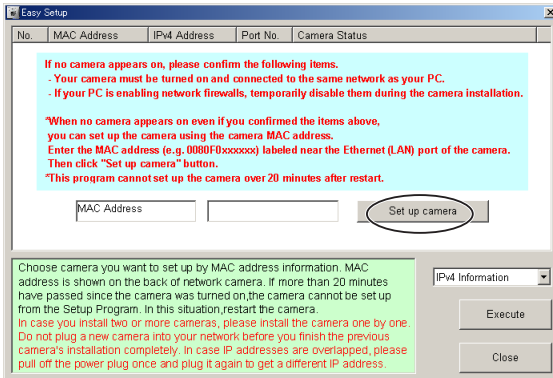
3.

Setting up the Camera Using the MAC Address on the Setup Program

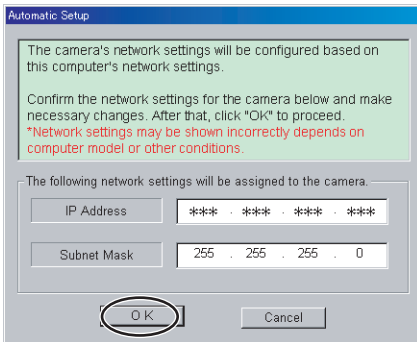
1.

Note

9).



2.



3.

Security: Administrator

New User Name (6 to 15 characters)	<input type="text"/>
New Password (6 to 15 characters)	<input type="password"/>
Retype new password	<input type="password"/>

Note : (1) You'll be asked for User name and password to open camera image.
Please keep your User Name and Password securely.
(2) Alphabet and number only. [Space],[],[&],[.] ,[<] or [>] are not allowed.
(3) A capital letter/small letter is distinguished.
(4) User Name and Password must be different from each other.
(5) It is strongly recommended to change password regularly for security.

4.

Enter Network Password

Please type your user name and password.

Site: *:*:* *:*:* *:*:* *:*:*

Realm: *:*:*:*

User Name

Password

Save this password in your password list

5.

18. 2. (17).

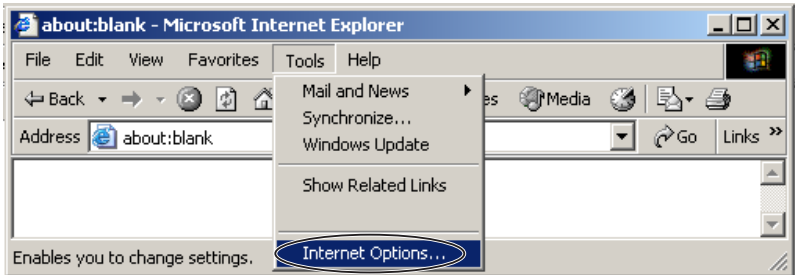
7.5 Setting Your PC

7.5.1 Setting Proxy Server Settings on a Web Browser

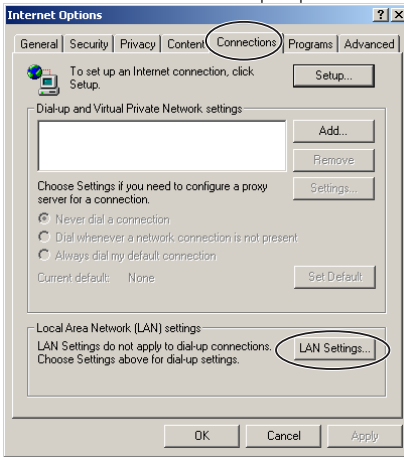
Note

How to Set Proxy Server Settings

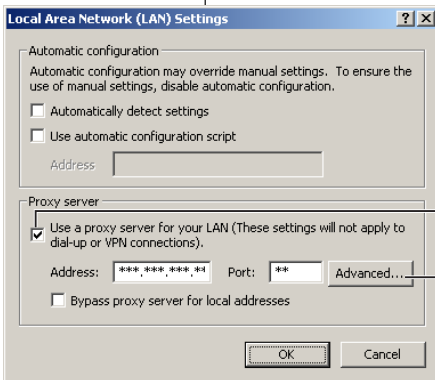
1. Open Internet Explorer (version 6.0 or later).
2. Click on the Tools menu and select Internet Options.



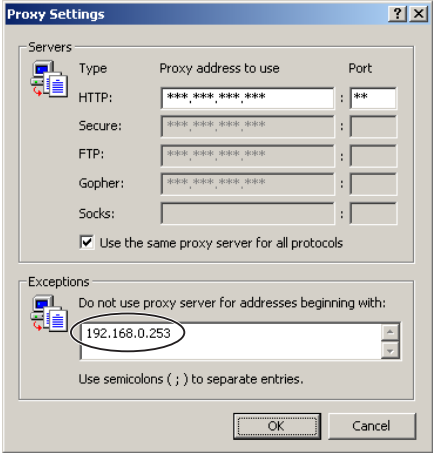
3.



4.



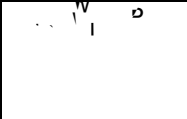

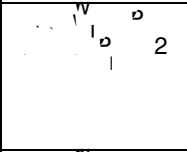
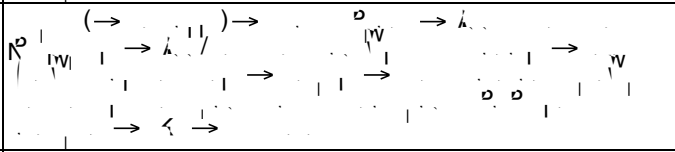
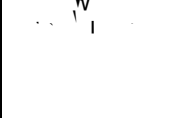
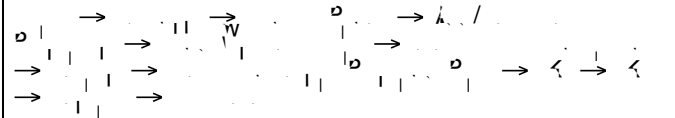
5.



6.

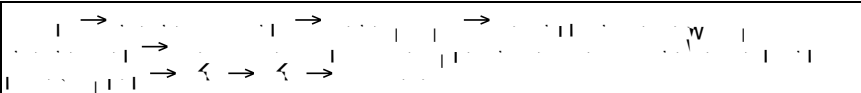
Note

7.5.2 Setting UPnP™ to Display Camera Shortcut in My Network Places

OS	Steps
	
	
	

Note

7.5.3 Setting the Internet Temporary File Setting on the Web Browser



7.6 Default Setting List

Basic

Items	Default	Required	Note
(p 4)		-	
		-	
		-	
	80	-	20, 21, 25, 110 *2
	192.168.0.253		*1
	255.255.255.0		*1
			0 63 *4
			*1
			*1
		-	0.1, 0.2, 0.3, 0.5, 1
		-	100, 100, 10, 10

	Items	Default	Required	Note
A W (6)			-	
			-	
		80	-	20, 21, 25 110 *2.
				*1
				*1
				*1
				0.1, 0.2, 0.3, 0.5, 1
				100 100 10 10
D 1			-	
		(3)	-	
			-	
D D			-	
			-	

	Items	Default	Required	Note
<p>11</p>				
				1 255 *8
		10		/10, 30(), 1, 3, 6, 12, 24()
				0 63
				0 63
<p>12</p>		/	-	/ /24
				-
				1 255 *4
		-05:00	-	-
			-	-
		2	-	-
<p>13</p>				1 15 *6
			-	/ / ()/ ()/ /
			-	-

	Items	Default	Required	Note
A			-	-
			-	/
		1	-	1, 2, 3, 5, 10, 20, 30, 60 ()
			-	-
			-	/

Account

	Items	Default	Required	Note
Account	Account		-	-
	Account		6 15	*3
	Account		6 15	*3
	Account		6 15	*3
Account	Account		-	-
	Account		6 15	*3
	Account		6 15	*3
	Account		6 15	*3
	Account		-	30 (), 1, 5, 10, 30, 60 ()
	Account	3	-	3, 5, 10, 30, 60 ()
	Account		-	-

Buffer/Transfer

	Items	Default	Required	Note
<p>1. Buffer/Transfer</p>	1. Buffer/Transfer		-	-
	2. Buffer/Transfer		-	1/1, 2/1
	3. Buffer/Transfer		-	-
	4. Buffer/Transfer ()	320 240	-	160 120, 320 240, 640 480
	5. Buffer/Transfer		-	
	6. Buffer/Transfer		-	30
	7. Buffer/Transfer		-	-
	8. Buffer/Transfer			1, 2
<p>2. Buffer/Transfer</p>	1. Buffer/Transfer		-	-
	2. Buffer/Transfer		-	-

	Items	Default	Required	Note
			1, 2	/ () w - ()/ () w - ()
				/p , 1, 12 (), 0/10/20/30/ 40/50 ()
		p 12 0		-
				-
		25		*2
		110		*2
				-
			-	/ p p /

Items	Default	Required	Note
	.1	-	-
			-
			*1 *5 1 255
	--		20, 21, 25 110 *2
	403		1 15 *7
	.1 .1	-	.1 .12
		-	-
		-	/
		-	-
		-	-

*1 4 4 (0 255) 3 "192.168.0.253".
 "0.0.0.0" "255.255.255.255"
 6, 8 0 ""
 (2001:2:3:4::5)

*2 1 65535.

*3 { 176). , , & , < , > : .

*4 { 176). , , & , < , >

*5 { 176). , , # , & , % , = , + , * , < , >

*6 { 176) (1 15
 1- 1 7 2-). , , & , < , >

*7 ... k ... (... 176) ... (1 15 ...
1- ... 1 7 ... 2- ...) ...
, & , % , = , + , * , < , > ...
*8 " : ...

7.7 ASCII Character Table

ASCII Character Table					
{	0		0		
	1				
!	2	!			
"	3				
#	4				
\$	5				
%	6		\		
&	7				
'	8				
(9				
)	:				
*	;				
+	<	<			
,	=				
-	>				
.	?	?			
/	~	~			

7.8 File Size and Number of Buffered Images

Note

Resolution	Items	Capture	Favor Clarity	Standard	Favor Motion	Mobile Phone*1
640 480 ()		60	50	33	20	-
		-	40	60	100	-
320 240 ()		30	25	16	8	8
		-	80	125	250	250
160 120 ()		10	7	5	3	3
		-	290	400	675	675

The maximum number of Buffer/Transfer images

5

E.g.

320 240

125

3

40

7.9 Number of Images on the SD Memory Card

- 2 : 0.02
- 1 : 0.01
- 512 : 0.512
- 256 : 0.256
- 128 : 0.128
- 64 : 0.064

Resolution/ Image Quality		2 GB	1 GB	512 MB
160		620,000	300,000	157,000
120 ()		370,000	180,000	94,000
		260,000	130,000	67,000
320		230,000	110,000	58,000
240 ()		115,000	58,000	29,000
		70,000	37,000	18,000
640		90,000	47,000	23,000
480 ()		55,000	28,000	14,000
		35,000	18,000	9,000

Resolution/ Image Quality		256 MB	128 MB	64 MB
160		78,000	39,000	19,000
120 ()		47,000	23,000	11,000
		33,000	16,000	8,000
320		29,000	14,000	7,000
240 ()		14,000	7,000	3,000
		9,000	4,000	2,000
640		11,000	5,000	2,000
480 ()		7,000	3,000	1,000
		4,000	2,000	1,000

7.10 Specifications

Network Camera

Items	Specifications
	: 0; +65;
	1/4- (), 320,000 ()
	3 100,000 (0.2 100,000)
	k / /
	0.5 (20)
	3.5
	53;
	40;
	k

Other Specifications

Items	Specifications
	(3)
	640 480, 320 240 (), 160 120
*1	k 125 (320 240) ^V ()
	2 ^V
	k 32<
	300 > 3.4< >
	() ^V k
*2	k
*3	.12 / (640 480) .30 / (320 240 160 120)

Items	Specifications
Supported Protocols	IPv4/IPv6 Dual-Stack <ul style="list-style-type: none"> • IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnP™, IPsec • IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, IPsec
IPsec Feature	ESP Encryption, ESP Authentication Transport mode/Tunnel mode IKE (Internet Key Exchange)
IKE (Internet Key Exchange)	Pre-Shared Key
Cipher Algorithm	DES-CBC, 3DES-CBC, AES-CBC
Message-Digest Algorithm	HMAC-MD5, HMAC-SHA-1
Message Transfer Condition	Alarm, Timer or Motion Detection
Image Transfer Method	SMTP*4, FTP
Interface	10Base-T/100Base-TX Ethernet RJ-45 connector x 1
Indicator Display	Power/Network Communication/Camera operation/Ethernet link
External Microphone Input	ø 3.5 mm Mini Jack
Audio Output	ø 3.5 mm Stereo Mini Jack (But output is mono.)
External I/O	External Sensor Input x 2 External Sensor Output x 1
SD Memory Card Slot	Full Size
Dimension (HWD)	97.5 (3 13/16 inches) mm x 123 (4 13/16 inches) mm x 123 (4 13/16 inches) mm
Weight	330 g (0.73 lb.) (Only the unit)
AC adaptor (Model No. BB-HCA2A: Option)	Input 120 V AC, 60 Hz Output 12 V DC, 0.75 A
Power Consumption	PoE: (48 V, IEEE 802.3af-compliant Power over Ethernet): About 5.5 W AC adaptor: About 5.8 W

Items	Specifications
	: 0, (+32,) +40, (+104,) : 0, (+32,) +50, (+122,)
	: 20 % 80 % () : 20 % 90 % ()

- *1
- *2
- *3
- *4

Index

A

4
17
78
124, 143
73
94
176

B

29

C

11
70
22
32, 34
154
20

D

67
166
60, 65

E

151
9, 151

F

139
153

G

80

H

150
9

I

132
140
47

6
13

L

8, 154
25
79
148

M

9
141
106, 120
27
135

N

(4) 38
(6) 43

O

23
137

P

150

R

149
144

S

147
75
9
142
35
156
15
179
142
150
150

T

25
21

	/	84
	12	
U	4	
	v	145
	57	
V	^	62
	v	60
Z		
		19

For product service

-
-
-

1-800-272-7033

When you ship the product

-
-

-
-

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