

Panasonic[®]

Operating Instructions

Network Camera

Indoor Use Only

Model No. **BB-HCM381A** (AC Adaptor Type)
BB-HCE481A (PoE Type)



Please read this manual before using, and save this manual for future reference.
Panasonic Network Camera Website: <http://www.panasonic.com/netcam>

Motion Detection

When Motion Detection is turned on, the camera will detect motion in the field of view and will start recording. The camera will stop recording when the motion stops. The camera will start recording again when motion is detected again.

Better Image Quality

The camera has a built-in image stabilization feature that helps to reduce camera shake and provides a clearer image. The camera also has a built-in image enhancement feature that helps to improve the overall image quality. The camera will automatically adjust the image quality based on the scene it is recording.

Remote Pan/Tilt/Zoom/Focus

The camera has a built-in remote control that allows you to pan, tilt, zoom, and focus the camera remotely. The camera will respond to the remote control commands and will adjust the camera position and focus accordingly. The camera will also display the current camera position and focus on the LCD screen.

Click to Center

Preset Position

Output Control

Video Output

The camera has a built-in video output port that allows you to connect the camera to a monitor or TV. The camera will output the video signal to the monitor or TV and will allow you to view the camera's field of view in real time.

SD Memory Card^{*1} Recording

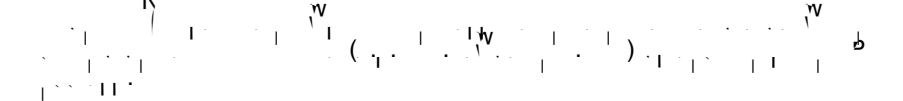
The camera has a built-in SD memory card slot that allows you to store video recordings on an SD memory card. The camera will automatically start recording on the SD memory card when the internal memory is full. The camera will also display the current recording time and the amount of space used on the SD memory card.

*1 The camera supports SD memory cards with a capacity of up to 32GB. The camera will not record on SD memory cards with a capacity of more than 32GB. The camera will also not record on SD memory cards that are not formatted in FAT32.

Enhanced Multi-Camera Page



DynamicDNS Service Support



Multi-Language Display



Abbreviations



Trademarks

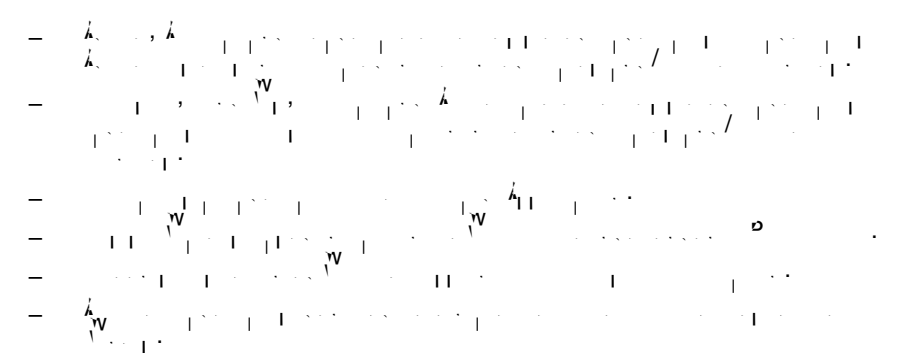


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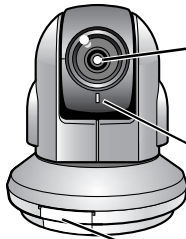
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1 Camera Monitoring

1.1 BB-HCM381A Feature Locations

1.1.1 Front View



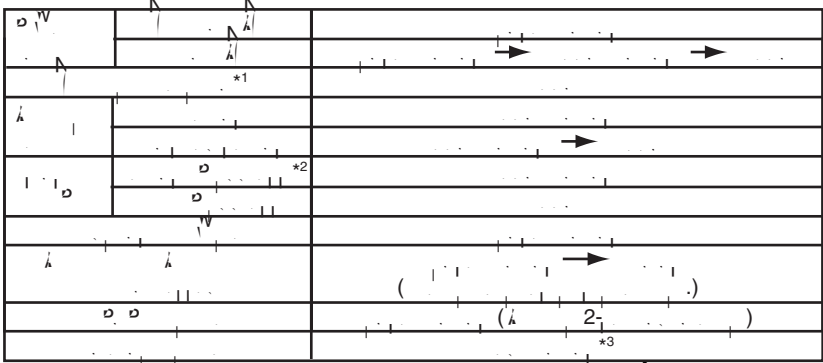
Auto Focus/Zoom Lens

5 (3/16")
1 (3/32")

Indicator

SD Memory Card Cover

Indicator Display



*1

*2

*3

1.1.2 Rear View

Ethernet (LAN) port

(RJ-45)

Audio/Video terminals

(3.5mm)

External I/O

(USB, FireWire, 164)

DC IN jack

(4-pin)

1.1.3 Bottom View

DC
IN

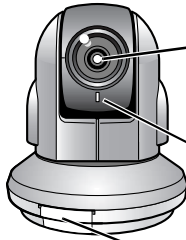
(4-pin)

Hole for

()

1.2 BB-HCE481A Feature Locations

1.2.1 Front View



Auto Focus/Zoom Lens

1/5 (3/16)

1 (3 3)

Indicator

153).

SD Memory Card Cover

(140).

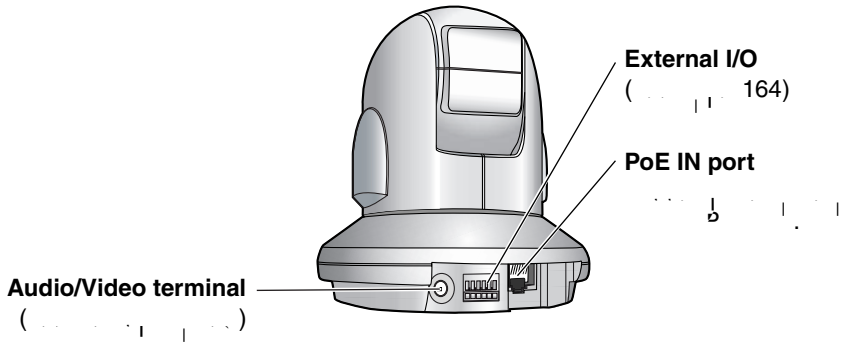
Indicator Display

*1

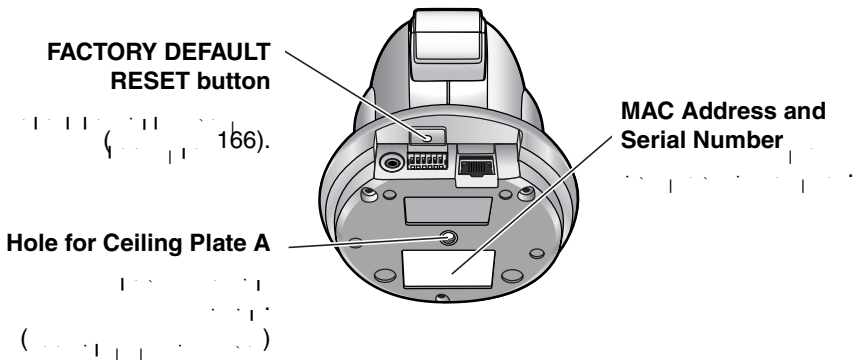
*2

5 6

1.2.2 Rear View



1.2.3 Bottom View



1.3 How to Turn on the Camera

481 k) (381 k) (481 k) (381 k)

BB-HCM381A

-
-

BB-HCE481A*¹

-
-

*1 - 481 k) (381 k) (481 k) (381 k)

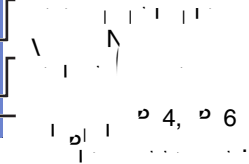
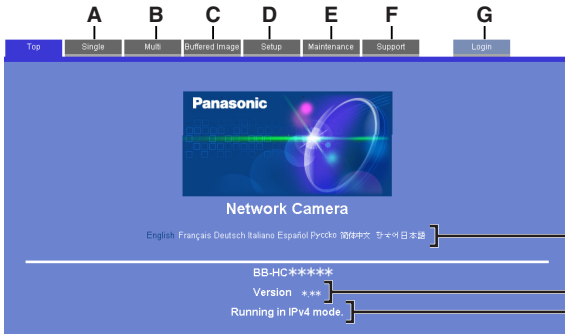
1.4 Accessing the Camera

1. **2.** **"http://IPv4 Address (or URL):Port Number"**
- 80 (),
50
6 15 16,
"http://(IPv6-registered URL):Port Number"
- 9 /
://192.168.0.253:50000 (in IPv4)
://*****. :50000 (in IPv6)
- 3.

Note

-

4.



A (17)

B (36)

C (38)

D (45)

E (154)

F (163)

G (92)

Note

5.

Setting up your PC

1. →
2. " 6 "

Note

3. " 6 "

Setting up the Camera

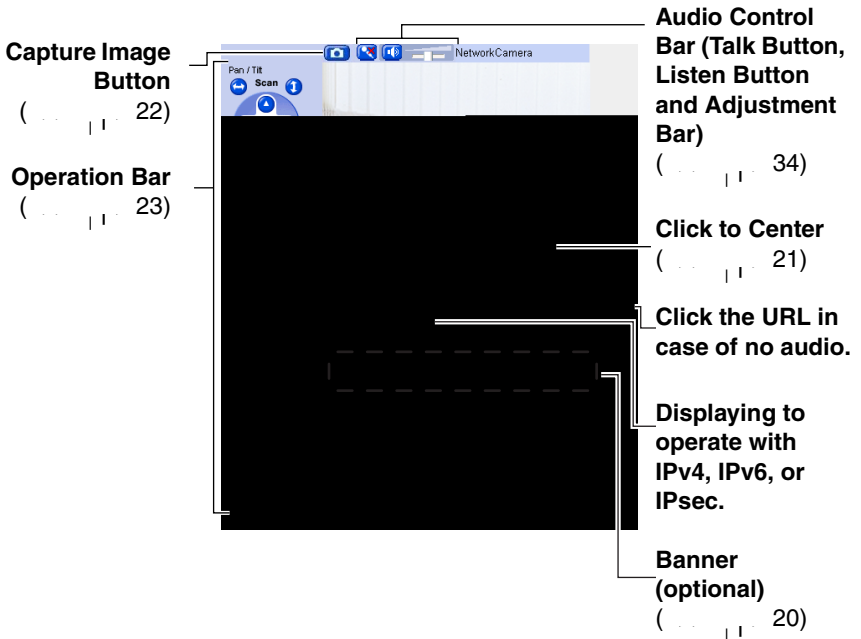
53. " 6 "

Confirming that You Can Access the Camera

- 13).

1.5 Viewing the Single Camera page

1. Tap the **Single Camera** button (page 13).
2. Tap the **Single Camera** button (page 19).



3. Tap the **Single Camera** button.

Note

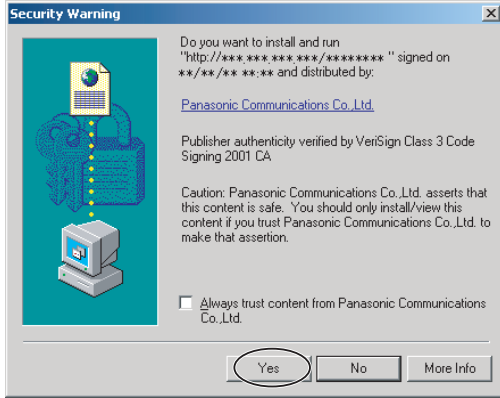
- Tap the **Single Camera** button (page 23).
- Tap the **Single Camera** button (page 20).

(31), 30
 30
 (93).
 (80).
 (80).

Error Message	Cause and Remedy
	150).
	30

Security Warning window

2000



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

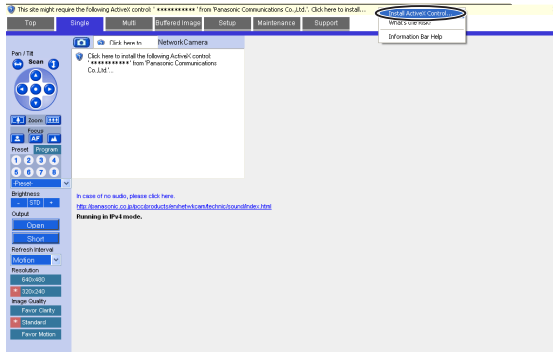
- (1)
- (2)
- (1)
- (2)
- (3)

Note

(186).

Security Warning window on Microsoft Windows XP Service Pack 2

1.



2.



1.5.1 Displaying the Banner

145).

1.5.2 Auto Centering the Image (Click to Center)

1.



2.

- The image is centered in the window.
- The image is 25% zoomed in.

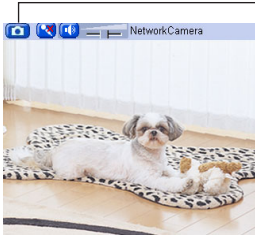


Note

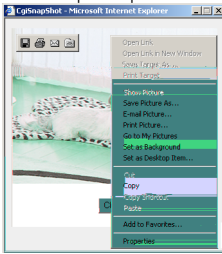
- The image is centered in the window (see Figure 23).
- The image is 25% zoomed in.
- The image is 93% zoomed in.

1.5.3 Capturing a Still Image

- 1.
- 2.

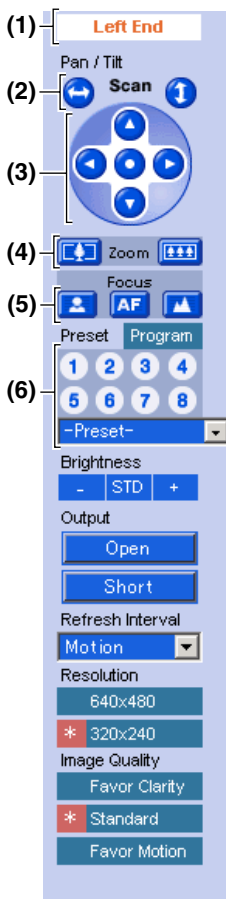


- 3.



- 4.
- 5.

1.5.4 Using the Operation Bar



(1) End Display and Preset Display:

(2) Pan Scan/Tilt Scan:

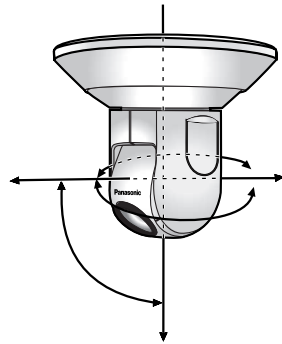
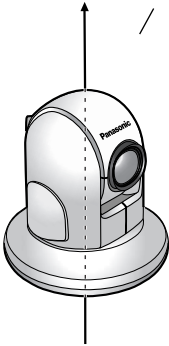
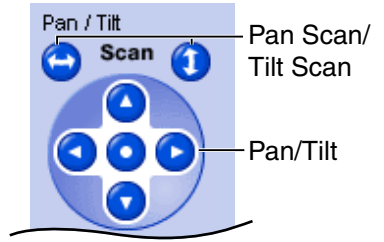
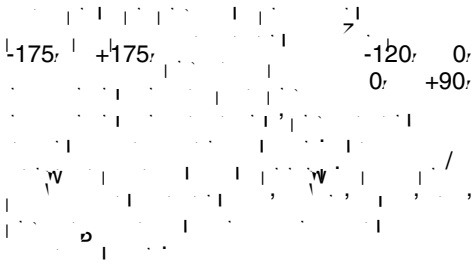
(3) Pan/Tilt/Home Position:

(4) Zoom Buttons:

(5) Focus Buttons:

(6) Home Position, Alarm Position, Preset Position:

Pan/Tilt Operation



Note



Note

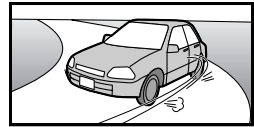
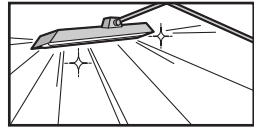
- (93). 10
- w
- w
- w
- w

1.5.6 Automatic and Manual Focusing



Note

The objects that are difficult to focus on by AF button

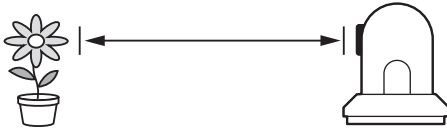


- ... (v) ...
- ...
- ... (93) ...
- ... 10 ...

Minimum object distance

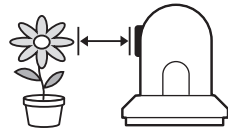
During maximum zoom in (Tele)

1 (3 ... 3 ...)



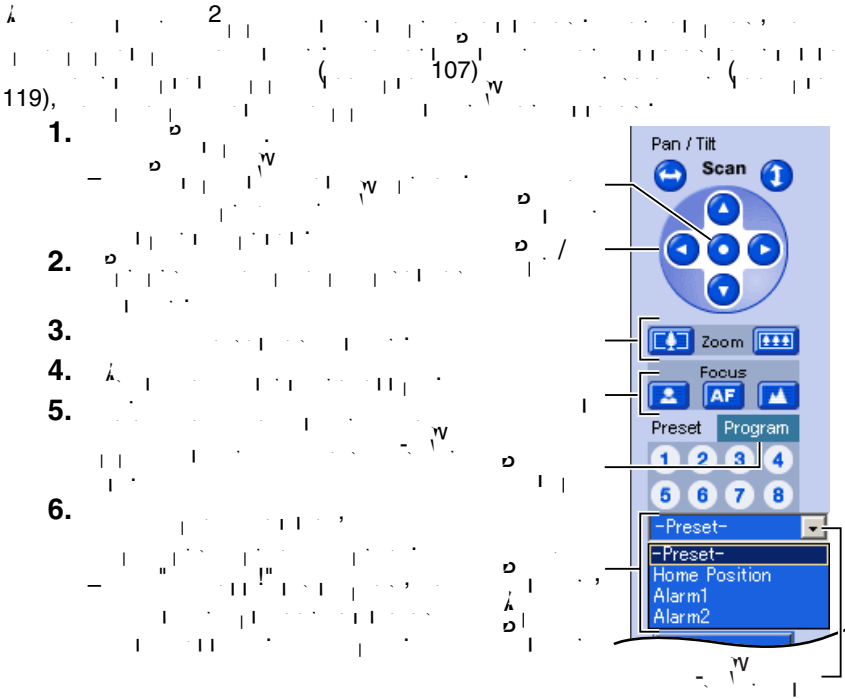
During maximum zoom out (Wide)

5 (3/16 ...)



1.5.7 Setting Home Position/Alarm Position/Preset Position

Registering Home Position/Alarm Position



Registering a Preset Position

20

(33).

1.

2.

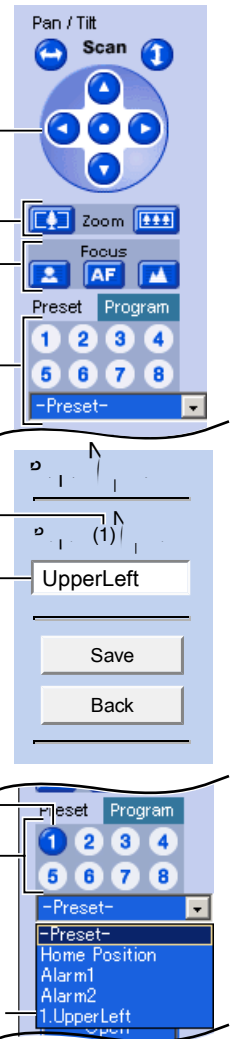
3.

4.

5.

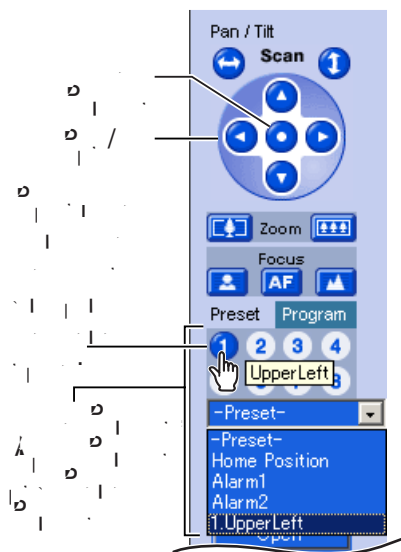
6.

Note



Viewing the Image

1.



Changing or Deleting the Settings

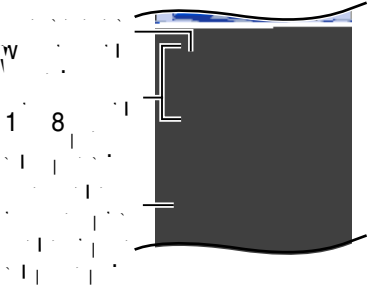
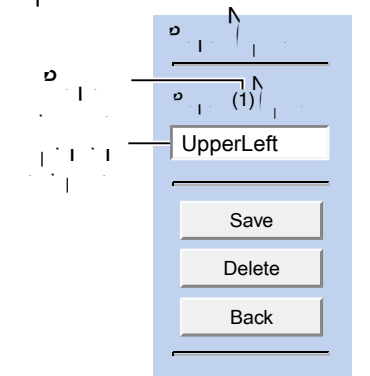
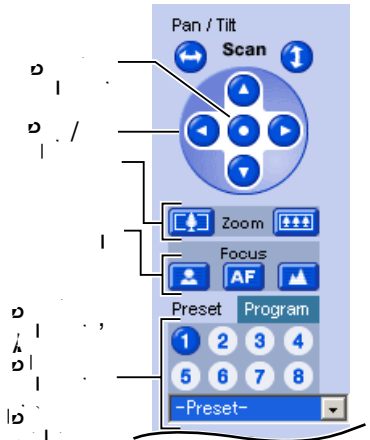
1. Press the **Scan** button.
2. Press the **Scan** button.
3. Press the **Scan** button.
4. Press the **Scan** button.
5. Press the **Scan** button.

Note

6. Press the **Scan** button.

Note

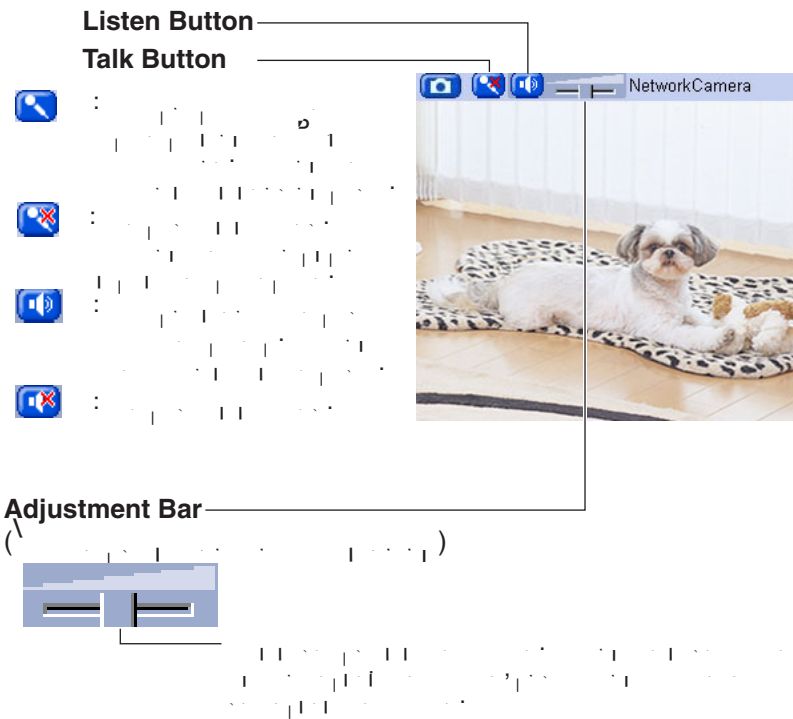
7. Press the **Scan** button.



1.6 Listening to Camera Audio and Talking through the Camera

1. Click the **Listen** button (see Figure 13).
2. The camera starts to listen to the audio from the camera.
3. Click the **Talk** button (see Figure 14) to start talking through the camera.

Audio Feature



Note

- $\frac{1}{k} \int \frac{1}{x} dx = \ln|x| + C$ (48)
- $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ (53).
- $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$ (86).
- $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$ (10).
- $\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$ (86).
- $\int \frac{1}{x^6} dx = -\frac{1}{5x^5} + C$ (48).
- $\int \frac{1}{x^7} dx = -\frac{1}{6x^6} + C$ (53).

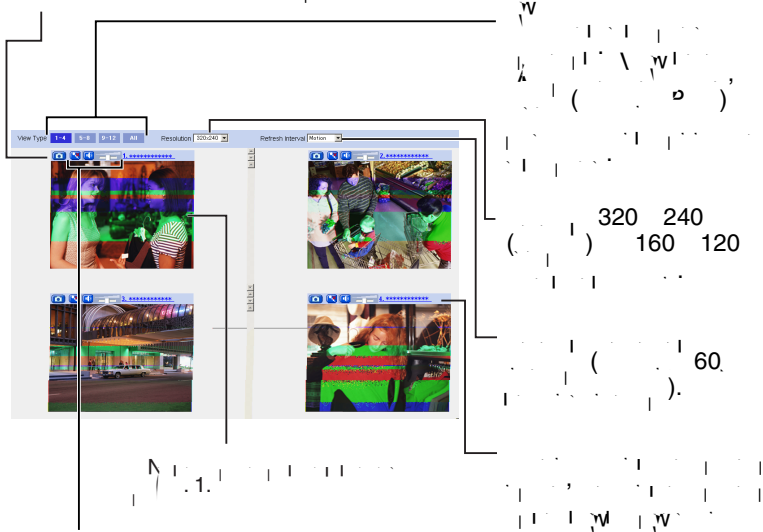
1.7 Viewing the Multi-Camera page

1. Click on the **Multi** button (Figure 148).
2. Click on the **Capture Image** button (Figure 13).



12

Capture Image Button (Figure 22)



Audio Control Bar (Talk button, Listen button and Adjustment Bar)
(Figure 34)

3. Click on the **Talk** button (Figure 34).

Note

160 120
640 480-
(51 56).
(93).
3 4

When an image is not displayed on the Multi-Camera page

(192.168.0.253)
(148).
(186).

When setting [Do not permit access from guest users] or [Permit access from guest users (mobile only)] on the Security: Administrator page

Using the zoom feature on the Multi-Camera page

10
(26).
(1.0 10.0)

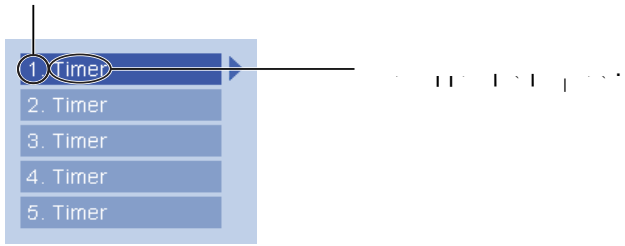
1.8 Viewing the Buffered Image page

Note

1. Click on the Buffered Image button (Figure 13).
- 2.



3. Click on the Buffered Image button (Figure 13).



4.



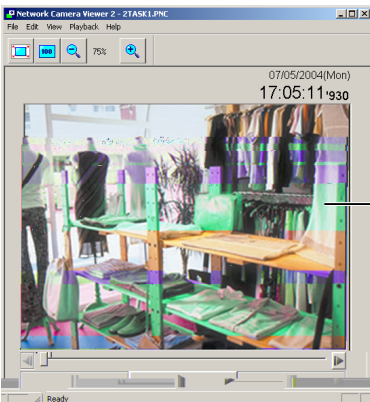
[Play]:

[<Prev] or [Next>]:

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

10 , 100 1000

[Download]



Using the zoom feature on the Buffered Image page

```
- ( 1.0 10.0)
- 26)
- w
```

Note

```
- 320 240
- 125
- ( 3 5
- 40 191
- 192
```

1.8.1 Deleting Buffered Images

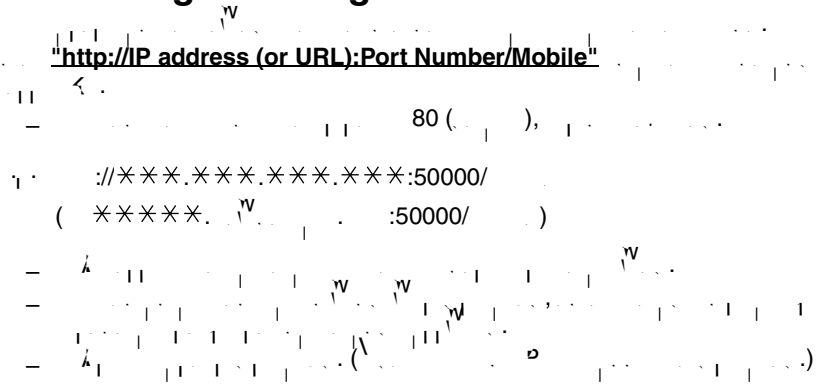
```
( 97, 107, 119).
```

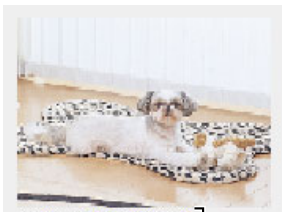
Note

```
- w
```

```
( 97, 107, 119).
```

1.9 Viewing Still Images on Your Cell Phone





- (4) [L](#)(2) [U](#)(8) [D](#)(6) [R](#)] (1)
- (*) [Tele](#)(#) [Wide](#)] (2)
- (5) [Refresh](#) (3)
- (0) [Resolution](#) (4)
- [Home Position](#) (5)

- (1) ["Office"](#)] (6)
- (3) ["Door1"](#)] (6)
- (7) ["Door2"](#)] (6)
- (9) ["Desk"](#)] (6)
- ["Preset5"](#)] (7)
- ["Preset6"](#)] (7)
- ["Preset7"](#)] (7)
- ["Preset8"](#)] (7)

- [Alarm Log](#) (8)
- [Buffer/Transfer](#) (9)

(1) $\rho \quad \text{W} \quad 2, 4, 6 \quad 8$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$

(2) $\rho \quad \text{W} \quad \# \quad * \quad \text{W} \quad \text{W} \quad \text{W} \quad \text{W}$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$

(3) $\rho \quad \text{W} \quad 5$
 $\vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots$

(4) $160 \quad 120 \quad \rho \quad \text{W} \quad 0$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$

(5) ρ
 \vdots
 \vdots
 \vdots

(6) $\rho \quad \text{W} \quad \text{W} \quad 1, 3, 7 \quad 9$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots \quad \vdots \quad \vdots$

(7) $\text{W} \quad 5 \quad 20$
 $\vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots$
 $\vdots \quad \vdots \quad \vdots$

(8) $\text{W} \quad 50$
 $\vdots \quad \vdots$
 $\vdots \quad \vdots$
 $\vdots \quad \vdots$

(9) $\text{W} \quad \text{W}$
 $\vdots \quad \vdots$
 $\vdots \quad \vdots$
 $\vdots \quad \vdots$

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

(10)

(11)

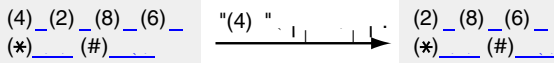
(12)

(13)

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

Note

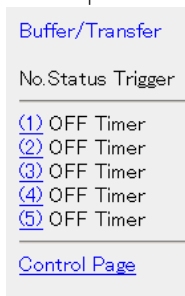
1. **http:// IP address(or URL):Port Number/MobileH**
(*****:50000/)
2. **http:// IP address(or URL):Port Number/MobileX**
(*****:50000/)



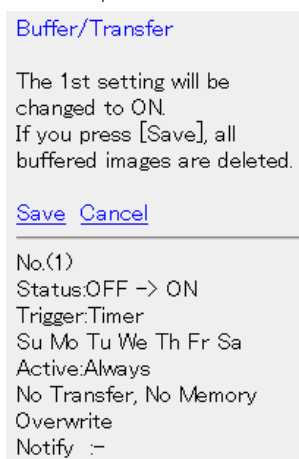
<http://panasonic.co.jp/pcc/products/en/netwkcaml>

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

1. Press **[F2]** to enter the menu.
2. Press **[F1]** to select **Buffer/Transfer**.
3. Press **[F1]** to select **No.Status Trigger**.



4. Press **[F1]** to select **(1) OFF Timer**.



2 Using the Camera's Basic Features

2.1 Setup Page of the Camera

1. Click on the Setup icon (see page 13).

Note

2.

The screenshot shows the camera's web interface. At the top, there are tabs for Top, Single, Multi, Buffered Image, Setup, Maintenance, and Support. The Setup tab is active. On the left, there is a navigation menu with the following items:

- (1) Basic
 - (2) Network(IPv4) (selected)
 - (3) Network(IPv6)
 - (4) P2P
 - (5) UPnP
 - (6) DynamicDNS
 - (7) Date and Time
 - (8) Camera
 - (9) Audio
- (9) Account
 - (10) Administrator
 - (10) General User
- (11) Buffer/Transfer
 - (12) Trigger
 - (12) Motion Detection
 - (13) Alarm Log
- (14) Advanced
 - (15) Image Display
 - (15) Multi-Camera
 - (16) Operation Time
 - (17) External Output
 - (18) Indicator Control

The main content area is titled "Network(IPv4)". It 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) 4 w
- (2) Network (IPv6) 6 w

(15) Multi-Camera^{*1}

12
(148)

(16) Operation Time

150.

(17) External Output

152.

(18) Indicator Control

153.

*1

()

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	
Save 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.

New settings are saved.

New settings are saved. Please restart the camera.

Note: (1) All the buffered images will be erased when restarted.

(2) Please use Setup Program to find out the camera on your network when you select "Automatic Setup" or "DHCP".

Restart

Note

5.

Note

180).

Setting	Description
(k)	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) 3 179).</p> <p>"192.168.0.253". "0.0.0.0"</p> <p>"255.255.255.255"</p>

Setting	Description
()	190)
(/)	4. (R 255) 3 "192.168.0.253" "255.255.255.255"
(/)	4. (R 255) 3 "192.168.0.253" "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="335 219 962 267">9</p> <p data-bbox="335 284 962 324">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	
DNS Server 2	
Max. Bandwidth Usage	
Unlimited	
Connection Type	
Auto Negotiation	
Save Cancel	

Static Setup

Allow Access from the Internet

Yes

No

Internet Connection

Port No.

IP Address

Default Gateway

Default Gateway

DNS

DNS Server 1

DNS Server 2

Max. Bandwidth Usage

Connection Type

4.

New settings are saved.

New settings are saved. Please restart this product.

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

Note

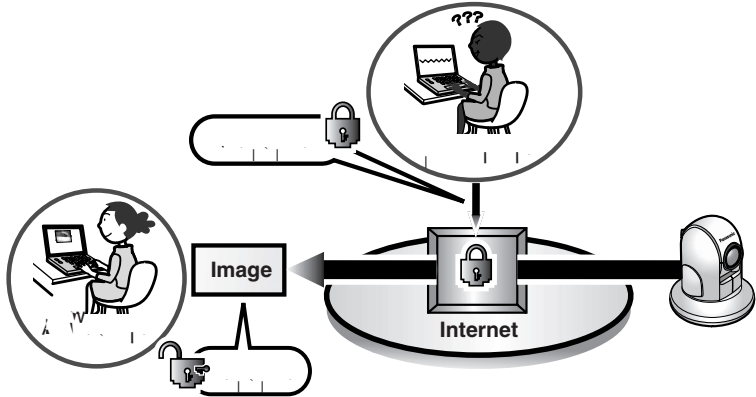
5.

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 6667.</p> <p>1 65535.</p> <p>80.</p>
<p>()</p>	<p>6 8</p> <p>2001:2:3:4::5)</p>
<p>()</p>	<p>6 8</p> <p>2001:2:3:4::5)</p>
<p>N</p>	<p>6 8</p> <p>2001:2:3:4::5)</p>

Setting	Description
	<p data-bbox="912 240 950 264">0.1</p> <p data-bbox="682 298 830 326">□ 4 □ 6.</p> <p data-bbox="338 345 394 370">Note</p> <p data-bbox="412 493 843 521">160 120 : 3.5 (28)</p> <p data-bbox="412 529 843 557">320 240 : 10 (80)</p> <p data-bbox="412 565 843 592">640 480 : 18 (144)</p>
	<p data-bbox="695 630 830 657">□ 4 □ 6.</p>

2.4 What is IPsec?



Camera's IPsec Features

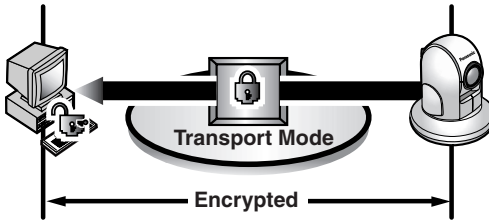
Item	Supported Feature
1	<ul style="list-style-type: none"> 1. Authentication: HMAC (SHA-1, SHA-256) 2. Encryption: AES (128, 192, 256 bit) 3. Tunnel Mode: Yes 4. Transport Mode: Yes 5. IKEv1: Yes 6. IKEv2: Yes
2	<ul style="list-style-type: none"> 1. Authentication: HMAC (SHA-1, SHA-256) 2. Encryption: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

*1

*2

IPsec Mode Selection

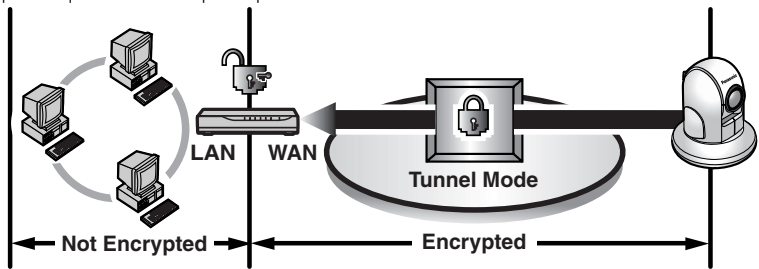
Transport Mode (IPv4 Only)



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

Tunnel Mode (IPv4/IPv6)

Note



Item	Supported Feature
	<p>2000, 98 (4)</p> <p>1 (6)</p> <p>6.0</p>
	<p>(4)</p> <p>(6)</p> <p>Note</p> <p>http://panasonic.co.jp/pcc/products/en/netwcam/</p>
	<p>(4)</p> <p>(6)</p>

2.5 Encrypting the Camera Image in Transport Mode

Note

- 1.
2. **Camera**

No. ... /

137)

No.	Status	Web Access	HTTP	Any	Ahead connecting
Camera	OFF				
BufferTransfer					
No.	Status	Ahead connecting			
1	OFF				
2	OFF				
3	OFF				
4	OFF				
5	OFF				
No.	Status	Ahead connecting			
1	OFF				

The notice of an worm bug

131).

Note

- 1.
- 2.
- 3.

Transport setting	
Status	<input type="checkbox"/> ON
Pre-Shared Key (1 to 63 Characters)	<input type="text"/>
Retype Pre-Shared Key	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Setting	Description
<p>IPsec</p> <p><input type="checkbox"/> Use</p>	<p>IPsec is a protocol suite for securing IP communications by authenticating and encrypting each IP packet in a communication session. It can be used to create secure virtual point-to-point connections between hosts and to secure communications across virtual private networks (VPNs).</p> <p>190).</p> <p>Note</p> <p>IPsec is a protocol suite for securing IP communications by authenticating and encrypting each IP packet in a communication session. It can be used to create secure virtual point-to-point connections between hosts and to secure communications across virtual private networks (VPNs).</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
<p>IPsec</p> <p><input type="checkbox"/> Use</p>	<p>IPsec is a protocol suite for securing IP communications by authenticating and encrypting each IP packet in a communication session. It can be used to create secure virtual point-to-point connections between hosts and to secure communications across virtual private networks (VPNs).</p>
<p>Encoding strength</p> <p><input checked="" type="radio"/> Standard (AES,3DES,DES, NULL)</p> <p><input type="radio"/> High (AES,3DES)</p>	<p>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.</p>

7.

8.

58.

9.

13).

Note

24

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

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 63 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>190).</p> <p>Note</p>	<p>190).</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	1
2	2

7.

8.

IKE Items	Settings
1	1
	2
	*1
	1 2.
	(128, 192, 256)
	5, k-1
	28800, ()
2	1
	2.
	(128, 192, 256)
	5-96, k-1-96
	28800, ()

*1

Items	Settings

9. (13).

Note

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

2.7 Using UPnP™ (Universal Plug and Play)

panasonic.co.jp/pcc/products/en/netwkcsm/ http://

Note

1. ... 6.
2. ... 4.

Auto Port Forwarding	
<input type="radio"/> Enable	
<input checked="" type="radio"/> Disable	
Display Shortcut Icon in My Network Places	
<input checked="" type="radio"/> Enable	
<input type="radio"/> Disable	
<input type="button" value="Save"/>	

Setting	Description
<p>Setting 1</p>	<p>Description 1</p> <p>Note</p> <p>(50).</p>
<p>Setting 2</p>	<p>Description 2</p> <p>Note</p> <p>(189).</p>

3. ...

4.

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

Note

panasonic.co.jp/pcc/products/en/netwkcsm/

http://

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

1.

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

Note

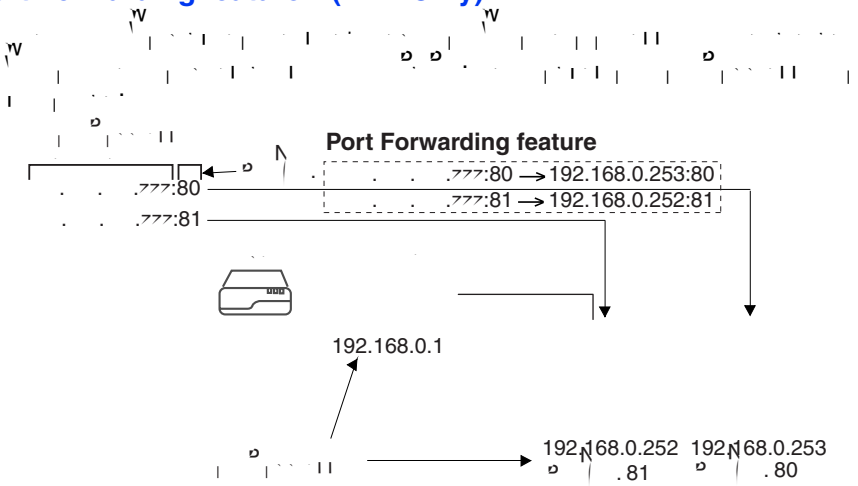
- (4)
- (5)

2.

1-(3),

3.

Port Forwarding feature*1 (IPv4 Only)



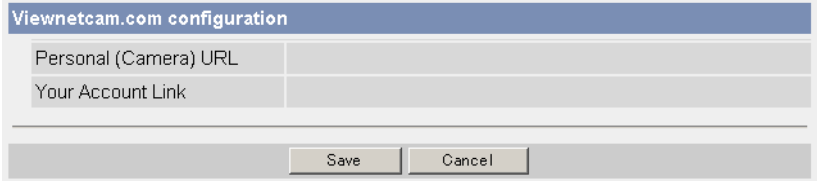
Note

-

2.8 Registering with the DynamicDNS Service

<http://www.viewnetcam.com>

3.



The screenshot shows a configuration dialog box titled "Viewnetcam.com configuration". It contains two input fields: "Personal (Camera) URL" and "Your Account Link". Below the fields are "Save" and "Cancel" buttons.

Setting	Description
Personal (Camera) URL	Enter the URL of the camera you want to connect to. The URL must be a valid IP address or domain name followed by the camera's port number. For example, 192.168.1.100:8080.
Your Account Link	Enter the account link provided by Viewnetcam.com. This link is used to authenticate the camera's connection to the software.

4.

5.

6.

Your Account Link.

Note

(1)

(2)

7. Click **Dynamic DNS**.
8. Click **Dynamic DNS** (Figure 13).

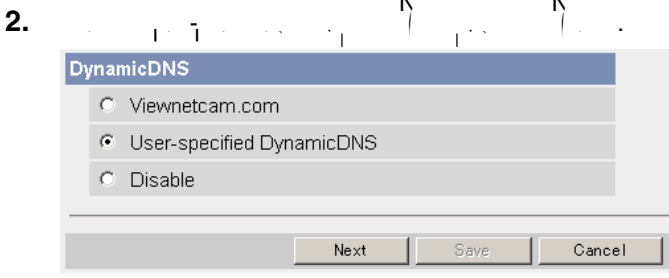
Note

30
 ()
 41

Confirming Internet access

13
 41

When you select [User-specified DynamicDNS]



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	DynamicDNS Server URL (1 to 255 Characters)
*2	User Name (0 to 63 Characters)
*2	Password (0 to 63 Characters)

4.

5.

Note

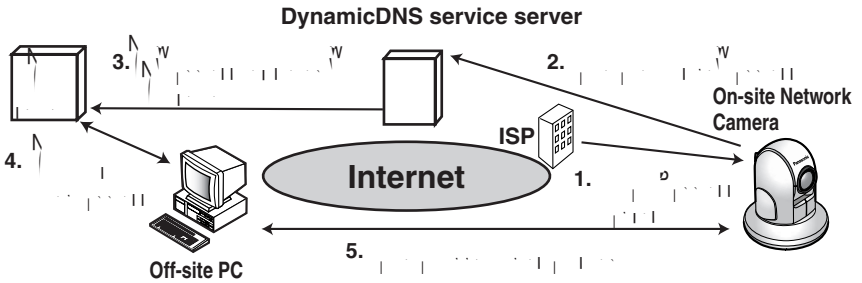
Confirming Internet access

- k (1) (13)
- k (1) (41)

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

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

3.

-
-

4.


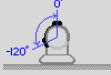
-

Note


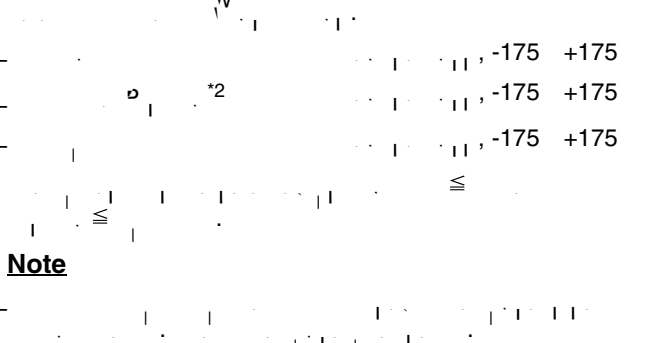

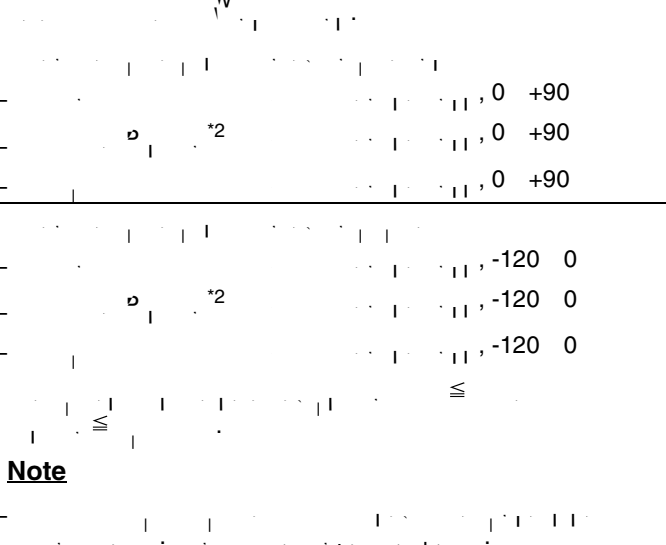
-

2.10 Changing Camera Settings

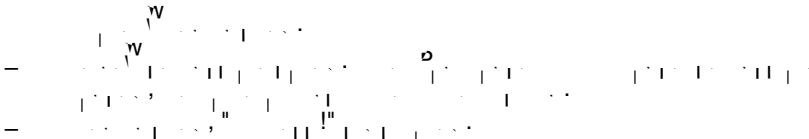
- 1.
- 2.

Camera Name		
Camera Name	NetworkCamera	
White Balance		
White Balance	Auto	
AC Power Source Frequency		
<input type="radio"/> 50Hz		
<input checked="" type="radio"/> 60Hz		
Automatic Focus Range		
Automatic Focus Range	Macro	
Mounting type		
<input checked="" type="radio"/> On the ceiling		
<input type="radio"/> On the table		
		
		
Pan Range		
Minimum	Home Position	Maximum
-175 degrees	0 degrees	+175 degrees
Tilt Range		
Minimum	Home Position	Maximum
-120 degrees	-90 degrees	0 degrees
Return to Specified Position		
Time	Do not move	
Specified Position	Home Position	
Color Night View		
<input type="radio"/> Enable		
<input checked="" type="radio"/> Disable		
Vertical Resolution (for 640 x 480 mode)		
<input checked="" type="radio"/> 480 (Better for still images)		
<input type="radio"/> 240 (Better for motion images)		
Save Cancel		

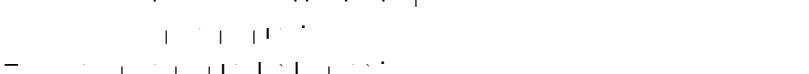
Setting	Description
	<p>190)</p> <p>(1 15 2- 1-)</p> <p>1 7 , " , & , < , ></p>
	<p>() (2800<)</p> <p>() (3600<)</p> <p>() (4000<)</p> <p>() (6000<)</p> <p>Note</p>
	<p>50 ></p> <p>60 > ()</p>
	<p>3 (3 3)</p>
	<p>+90 0</p> <p>0 -120</p>

Setting	Description
	 <p>Note</p>
	 <p>Note</p>

3.

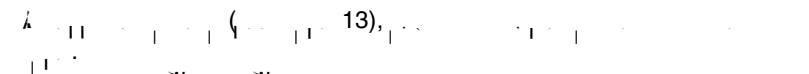


4.



Specifying the Pan/Tilt Range

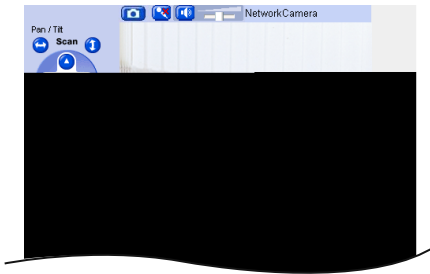
1.


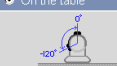


2.



3.



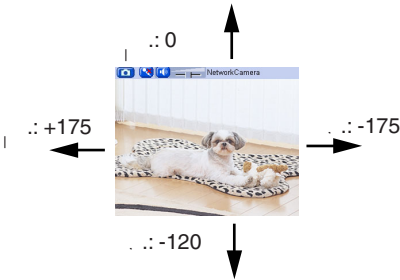
Camera Name		
Camera Name	NetworkCamera	
White Balance		
White Balance	Auto	
AC Power Source Frequency		
<input type="radio"/> 50Hz		
<input checked="" type="radio"/> 60Hz		
Automatic Focus Range		
Automatic Focus Range	Macro	
Mounting type		
<input checked="" type="radio"/> On the ceiling		<input type="radio"/> On the table
		
Pan Range		
Minimum	Home Position	Maximum
-175 degrees	0 degrees	+175 degrees
Tilt Range		
Minimum	Home Position	Maximum
-120 degrees	-90 degrees	0 degrees
Return to Specified Position		
Time	Do not move	
Specified Position	Home Position	
Color Night View		
<input type="radio"/> Enable		
<input checked="" type="radio"/> Disable		
Vertical Resolution (for 640 x 480 mode)		
<input checked="" type="radio"/> 480 (Better for still images)		
<input type="radio"/> 240 (Better for motion images)		
		Save Cancel

4.

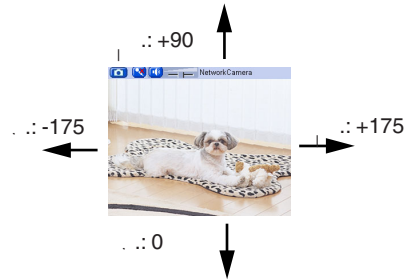


Note

When the camera is mounted on a table



When the camera is mounted on a ceiling



5.

2.11 Adjusting Audio

1. Select **Audio** in the **Settings** menu.
2. Adjust the audio settings as follows:

The screenshot shows a settings menu with the following sections and options:

- Output**: Enable, Disable
- Volume**: Standard (dropdown)
- PC Audio Input Timeout**: 1 min (dropdown)
- Input**: Enable, Disable
- Camera Microphone Sensitivity**: Standard (dropdown)
- Mute during Pan/Tilt**: Enable, Disable

At the bottom of the menu are **Save** and **Cancel** buttons.

Setting	Description
Output	Enables or disables the audio output.
Volume	Adjusts the volume level. (Standard)
PC Audio Input Timeout	Adjusts the timeout for PC audio input. (1 min)
Input	Enables or disables the audio input.
Camera Microphone Sensitivity	Adjusts the sensitivity of the camera microphone. (Standard)
Mute during Pan/Tilt	Enables or disables the audio output during pan/tilt.

Setting	Description
[Function Key] / [Function Key]	[Function Key] ([Function Key])

3.
 - [Function Key] [Function Key]
 - [Function Key] [Function Key]
4.
 - [Function Key] [Function Key]

3 Registering Users

3.1 Changing the Authentication Setting and Administrator User Name and Password

Note

- The administrator user name and password are used to log in to the system. The administrator user name and password are used to log in to the system.
- The administrator user name and password are used to log in to the system. The administrator user name and password are used to log in to the system.
- The administrator user name and password are used to log in to the system. The administrator user name and password are used to log in to the system.

IMPORTANT

- The administrator user name and password are used to log in to the system. The administrator user name and password are used to log in to the system.

1. 
2. 

General Authentication

Permit access from guest users

Permit access from guest users (mobile only)

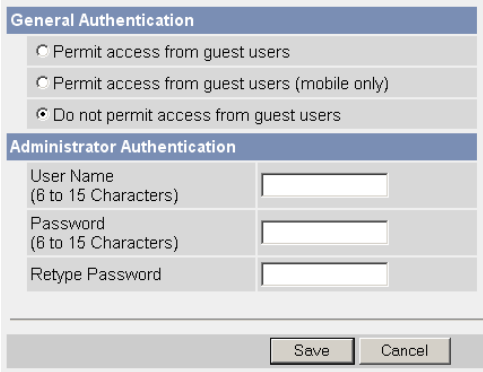
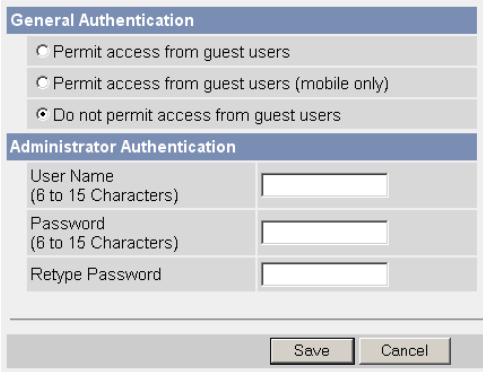

Do not permit access from guest users

Administrator Authentication

User Name
(8 to 15 Characters)

Password
(8 to 15 Characters)

Retype Password

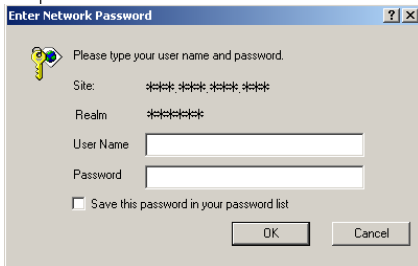
Setting	Description
	<p></p> <p>Note</p> 

Setting	Description
	<p>(6 15):</p> <p>(6 15):</p> <p>Note</p> <p>190).</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

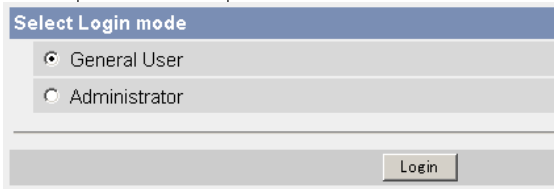
-

3.2 Logging in to the Camera

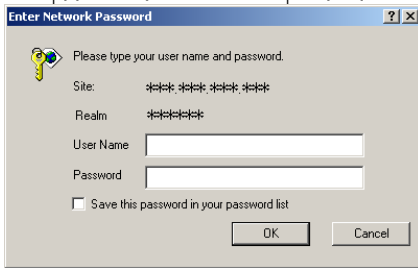
1.



2.



Note



3.

3.3 Creating, Modifying or Deleting General Users

50

()

Note

- 1.
- 2.

The screenshot shows a dialog box titled "User ID List (Max. 50 Users)". Inside, there is a list box containing the text "Unregistered". To the right of the list box are three buttons: "Create", "Modify", and "Delete".

The screenshot shows a dialog box titled "User ID List (Max. 50 Users)". Inside, there is a list box containing the text "Guest User". To the right of the list box are three buttons: "Create", "Modify", and "Delete".

3.

Input User Name and Password

User Name
(6 to 15 Characters)

Password
(6 to 15 Characters)

Retype Password

Access Level

Limit time of Continuous Motion JPEGs

Refresh Interval

Pan / Tilt Control

Zoom Control

Focus Control

Preset Control

Click to Center Control

Brightness Control

External Output Control

Change Refresh Interval

Change Resolution

Change Quality

Capture Image Button

Listen

Talk

View Multi-Camera page

View Buffered Image page

Access Level

Limit time of Continuous Motion JPEGs

Refresh Interval

Pan / Tilt Control

Zoom Control

Focus Control

Preset Control

Click to Center Control

Brightness Control

External Output Control

Change Refresh Interval

Change Resolution

Change Quality

Capture Image Button

Listen

Talk

View Multi-Camera page

View Buffered Image page

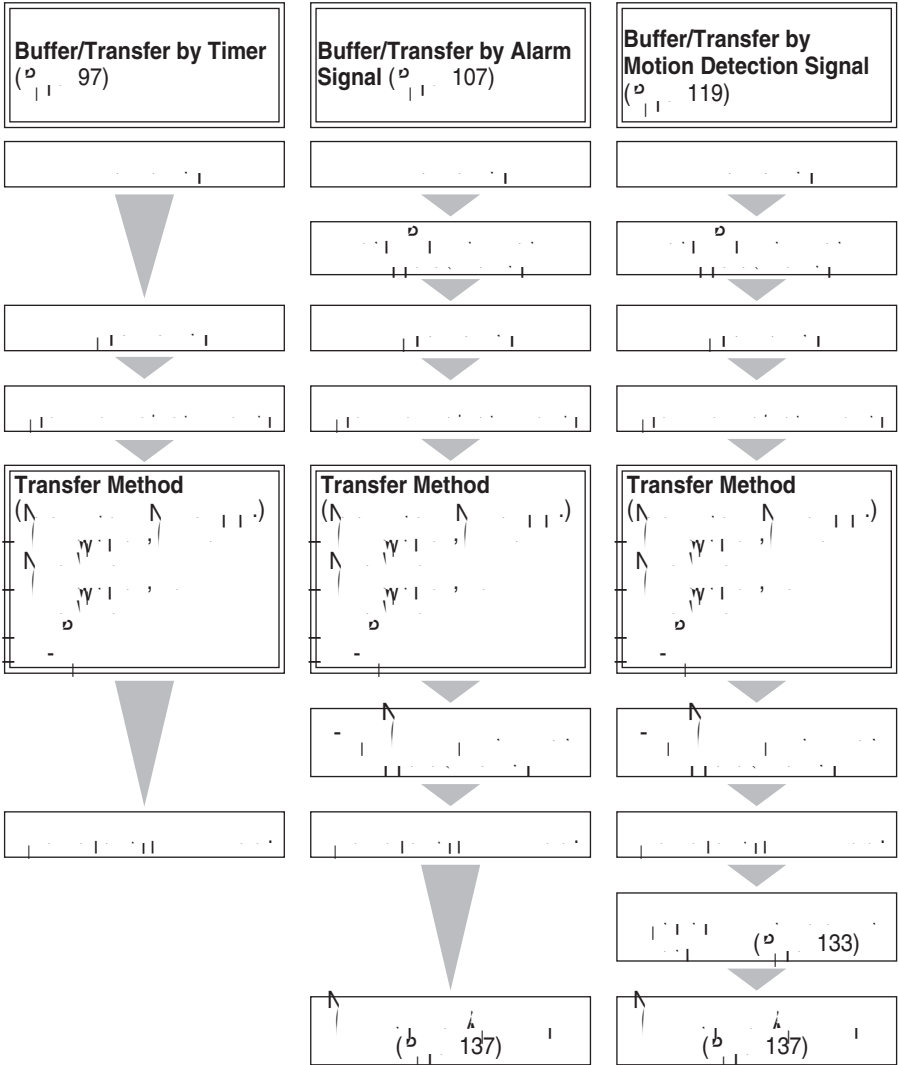
Setting	Description
	50
	(6 15); (6 15);
	Note
	190).
	," , , & , < , >

Setting	Description
<p>4.</p> <p>—</p> <p>5.</p> <p>—</p>	<p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p>

4 Buffering or Transferring Images

4.1 Procedures of Buffering or Transferring Images

130



4.2 Buffering or Transferring Images by Timer

Note

- 1.
- 2.

No.

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:

Note

Setting	Description

Setting	Description

4. 

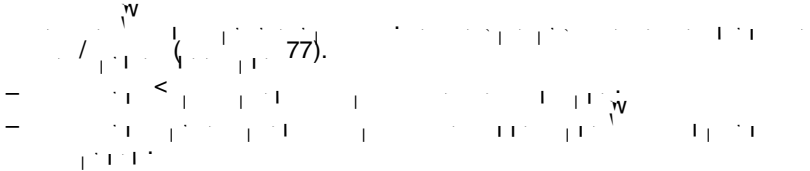
Time

Sun Mon Tue Wed Thu Fri Sat Active Time of Trigger

Always C AM 12 h 0 min to PM 11 h 59 min

< Back Next > Cancel

Note



Setting	Description

5. 

Image Setting

Image Resolution 320x240

Image Quality Standard

< Back Next > Cancel



Setting

Description

160	120	(640 480, 320 240 ())
-----	-----	-------------------------

Note

6. 640 480

<

Note

1 1

Setting

Description

--	--	--

7.

Transfer Method

No Transfer, No Memory Overwrite

No Transfer, Memory Overwrite

FTP

E-mail

< Back Next > Cancel

Note

- If you select **No Transfer, No Memory Overwrite**, the device will not transfer files to the PC and will not overwrite files on the PC.
- If you select **No Transfer, Memory Overwrite**, the device will not transfer files to the PC but will overwrite files on the PC.
- If you select **FTP**, the device will transfer files to the PC via FTP.
- If you select **E-mail**, the device will transfer files to the PC via e-mail.

Setting	Description
No Transfer, No Memory Overwrite	The device will not transfer files to the PC and will not overwrite files on the PC.
No Transfer, Memory Overwrite	The device will not transfer files to the PC but will overwrite files on the PC.
FTP	The device will transfer files to the PC via FTP. (101)
E-mail	The device will transfer files to the PC via e-mail. (103)

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	IP address of the FTP server. (0 255). (1 255). "192.168.0.253" or "0.0.0.0"
Port No. (Usually Use 21)	Port number of the FTP server. (1 65535). 21.
Login ID (0 to 63 Characters)	FTP login ID. (0 63).
Password (0 to 63 Characters)	FTP password. (0 63).
Login Timing	Timing of login. Every Time.
Upload File Name (1 to 234 Characters)	File name to be uploaded. (1 234).
Overwrite setting	Overwrite setting. Overwrite File.
Data Transfer Method	Data transfer method. Passive Mode.

Setting	Description
	<p>20050101093020500.</p> <p>"9 30 20 500</p> <p>1, 2005".</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

20050101093020500

9 30 20 500

1, 2005"

Setting	Description
	3 "192.168.0.253" (0 255) "255.255.255.255" "0.0.0.0" (1 255).
	(1 65535). 25.
	(3).
	(0 44 190) 1- 0 22 2-)
	(0 63 190) 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>

*1
*2

4.3 Buffering or Transferring Images by Alarm Signal

Note

- 1.
- 2.

No.

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
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
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21	21
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157	157
158	158
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160	160
161	161
162	162
163	163
164	164

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
							<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

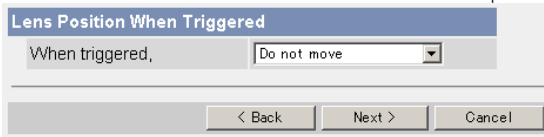
< >

Note

77).

Setting	Description
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
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18	18
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21	21
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154	154
155	155
156	156
157	157
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163	163
164	164

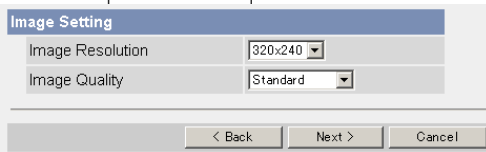
5.



Note

Setting	Description
When triggered	Do not move (30) 1.20 (31)

6.



Setting	Description
Image Resolution	(640 480, 320 240 (320 240))
Image Quality	160 120

Setting	Description
	<p>Note</p> <p>640 480</p>

7.

Image Buffer Frequency

Enable Pre-trigger Image Buffer

Every , buffer images. Total images.

Enable Post-trigger Image Buffer

Every , buffer images. Total images.

Note

Setting	Description
	<p>(191)</p>

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 FTP server. (0 to 255). "192.168.0.253" or "0.0.0.0" (1 to 255).
Port No.	Port number of the FTP server. (1 to 65535). 21.
Login ID	Login ID of the FTP server. (0 to 63 characters).
Password	Password of the FTP server. (0 to 63 characters).
Upload File Name	Upload file name of the FTP server. (1 to 234 characters).
Overwrite setting	Overwrite setting of the FTP server. (Overwrite File, Do Not Overwrite).
Data Transfer Method	Data transfer method of the FTP server. (Active Mode, Passive Mode).

Setting	Description
	<p>20050101093020500.</p> <p>9 30 20 500</p> <p>1, 2005.</p>

*1 N " , & , < >

*2 N " , & , < >

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

" :20050101093020500".

"9 30 20 500

1, 2005".

Setting	Description
3	"192.168.0.253". (0 255) "255.255.255.255" (1 255). "0.0.0.0"
(1 65535).	25.
(3).	
(0 44 190)	1- 0 22 2-
(0 63 190)	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. *2: 63 3 (1 63). *2: 63 3 (0 63). *2: (1 63). *2: (0 63).</p>

*1
*2

9.

115 116.

Setting	Description
	3

10.

11.

Note

3 6

W

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The document emphasizes that every entry should be supported by appropriate documentation, such as invoices, receipts, and bank statements.

2. The second part of the document outlines the various methods used to record transactions, including the double-entry system. This system ensures that the accounting equation remains balanced at all times. The document also discusses the use of journals and ledgers to organize and summarize the data.

3. The third part of the document focuses on the classification of transactions into different accounts. This involves identifying the nature of the transaction and determining which account it should be debited to and which account it should be credited to. The document provides examples of common transactions and their corresponding journal entries.

4. The fourth part of the document discusses the process of posting transactions from the journals to the ledgers. This step is crucial for ensuring that the data is accurately transferred and that the ledger accounts are properly updated. The document also mentions the importance of reconciling the ledger accounts with the original source documents.

5. The fifth part of the document concludes by emphasizing the need for regular reviews and audits of the accounting records. This helps to identify any errors or discrepancies early on and ensures that the financial statements are reliable and accurate.

4.4 Buffering or Transferring Images by Motion Detection Signal

Note

1. Select the motion detection signal as the trigger for buffering or transferring images. (See page 133).

- 1.
2. **No.**

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

Delete Buffered Images

Next >
Save
Cancel

Note

Setting	Description

4.

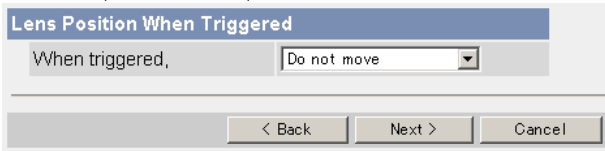
Time

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 checked="" type="radio"/> Always	<input type="radio"/> AM	
		12		h		0		min to	
		PM		11		h		59	
								min	

Note

Setting	Description

5.



Note

Setting	Description
Lens Position When Triggered	When triggered, (Do not move) 30) 1, 20

6.



Setting	Description
Image Setting	(640 480, 320 240) 160 120

Setting	Description
	<p>Note</p> <p>640 480</p>

7.

Image Buffer Frequency

Enable Pre-trigger Image Buffer

Every , buffer images. Total

Enable Post-trigger Image Buffer

Every , buffer images. Total

< Back Next > Cancel

Note

Setting	Description
	<p>(191)</p>

Setting	Description

8.

Transfer Method

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

Note

53).

Setting	Description
	124).
	126).

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
1	Server IP Address or Host Name (0 to 255). "192.168.0.253" (0.0.0.0)
2	Port No. (1 to 65535). 21
3	Login ID (0 to 63 characters).
4	Password (0 to 63 characters).
5	Login Timing (1 to 234 characters).
6	Upload File Name (1 to 234 characters).
7	Overwrite setting (Overwrite File)
8	Data Transfer Method (Passive Mode)

Setting	Description
	<p data-bbox="452 316 686 349"><u>20050101093020500.</u></p> <p data-bbox="675 349 856 381">"9 30 . 20 500</p> <p data-bbox="430 373 526 406">1, 2005".</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

" :20050101093020500".

"9 30 20 500

1, 2005".

Setting	Description
3 "255.255.255.255" (1 255	"192.168.0.253". (0 255) "0.0.0.0" 6
	(1 65535). 25.
*2	
1 3	(3).
*2	(0 44 190) 1- 0 22 2-
*2	(0 63 190) 1- 0 31 2-

9.

E-mail notification when triggered

Disable

Enable

< Back Next > Cancel

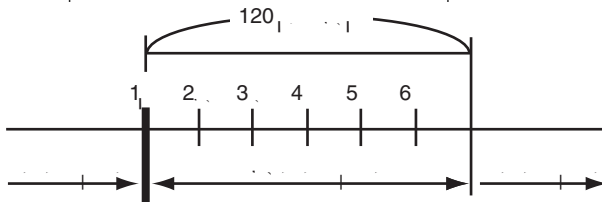
127, 128.

Setting	Description
	3

10.

11.

Note





W

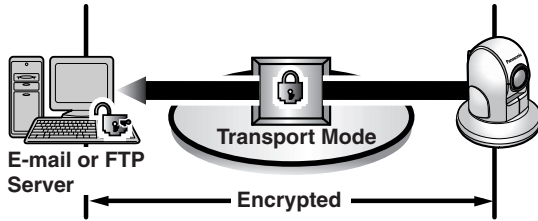
1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The document emphasizes that every transaction, no matter how small, should be properly documented and recorded in a timely manner.

2. The second part of the document outlines the various methods used to collect and analyze data. This includes both qualitative and quantitative techniques, as well as the use of statistical analysis to identify trends and patterns in the data. The document also discusses the importance of ensuring the reliability and validity of the data used in the analysis.

3. The third part of the document focuses on the interpretation of the results of the analysis. This involves comparing the findings to the research objectives and to the existing literature in the field. The document also discusses the implications of the findings for practice and for future research.

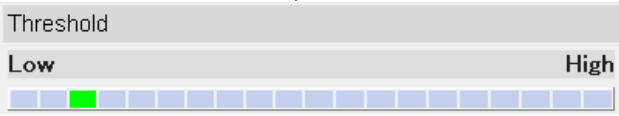
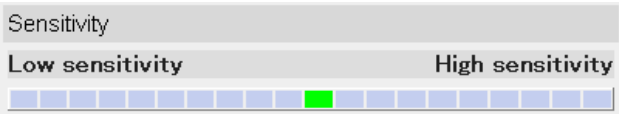
4. The final part of the document provides a summary of the key findings and conclusions. This includes a discussion of the strengths and limitations of the study, as well as recommendations for further research. The document also includes a list of references and a list of figures and tables.

4.5 Transferring Camera Images in Transport Mode



Item	Supported Feature

4.7 Setting the Motion Detection

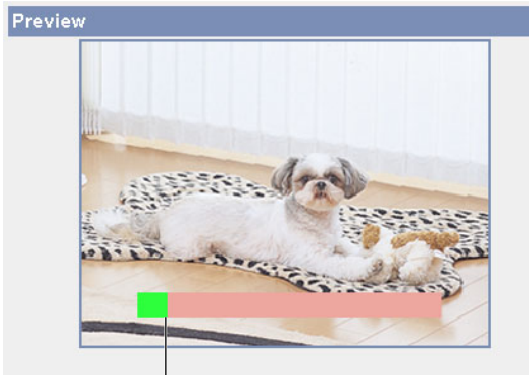
1. Press the **Menu** key to access the Motion Detection menu.
2. Press the **Left** key to select the **Threshold** option.
 
3. Press the **Left** key to select the **Sensitivity** option.
 
4. Press the **Left** key to select the **Exit** option.
5. Press the **Left** key to select the **Exit** option.

Setting	Description
Threshold	Adjusts the sensitivity of the motion detection. The higher the threshold, the less sensitive the motion detection is.
Sensitivity	Adjusts the sensitivity of the motion detection. The higher the sensitivity, the more sensitive the motion detection is.

Note

- The motion detection is only active when the camera is in the **Normal** mode.

Preview



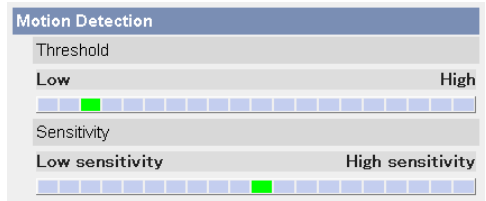
Note

What is “threshold”?

Threshold is the level of sensitivity that the motion detector must reach before it will trigger an alarm. A high threshold means the detector will only trigger an alarm when there is a significant amount of motion. A low threshold means the detector will trigger an alarm even when there is a small amount of motion.

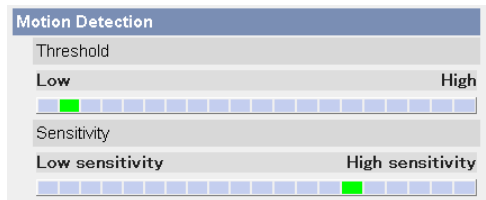
What is “sensitivity”?

Sensitivity is the ability of the motion detector to detect motion. A high sensitivity means the detector will detect even the slightest movement. A low sensitivity means the detector will only detect large movements.



Note

When the motion detector is set to a high threshold and high sensitivity, it will trigger an alarm even when there is a small amount of motion.



Note

When the motion detector is set to a low threshold and low sensitivity, it will only trigger an alarm when there is a significant amount of motion.

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):

3.

4.

Note

Setting	Description
3	"192.168.0.253", "0.0.0.0", "255.255.255.255" (1 255).
6	(1 65535). 25.
*2	
*2	(3).
*2	(0 44 190) 1- 0 22 2-

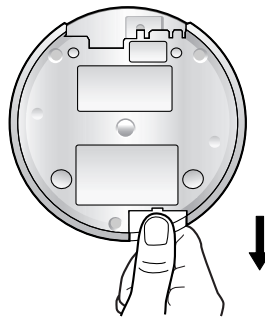
Setting	Description
	<p data-bbox="330 289 990 342">POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p data-bbox="330 570 990 678">4. (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255).</p> <p data-bbox="330 732 990 824">6 (1 65535). 110.</p> <p data-bbox="330 862 990 922">63 (1 63).</p> <p data-bbox="330 959 990 1019">63 (0 63).</p> <p data-bbox="330 1219 990 1279">(1 63 63).</p> <p data-bbox="330 1317 990 1377">(0 63 63).</p>

*1
*2

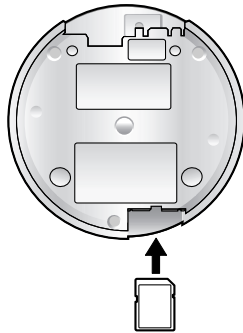
4.9 Using the SD Memory Card

Note

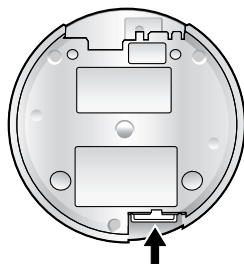
1.



2.



3.



Note

-
-
-
-

4.

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.	
<input type="button" value="Format"/>	<input type="button" value="SD video recording start"/>

- 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
	<p>640 480 ()</p> <p>320 240 ()</p> <p>160 120 ()</p>
	<p>z</p> <p>z</p>
	<p>3, 5, 10, 30, 60</p>
<p>Note</p>	<p>-</p> <p>- / 24</p>
	<p><</p>
<p>Note</p>	<p>-</p> <p>-</p>

Setting	Description
*1 127 *1	(0 127) (1)

*1 ^ " , & , < , >

3.

4.

5.2 Configuring Multiple Cameras

- 1.
2. **Add.**

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

Note

Change Camera Order

From No. To No.

- 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	4	4	(0 255)	3	"192.168.0.253"
	"0.0.0.0"		"255.255.255.255"		
*2	6			(190)

Note

- 4.

5.3 Specifying Operation Time

Note

- 1.
- 2.

No.

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

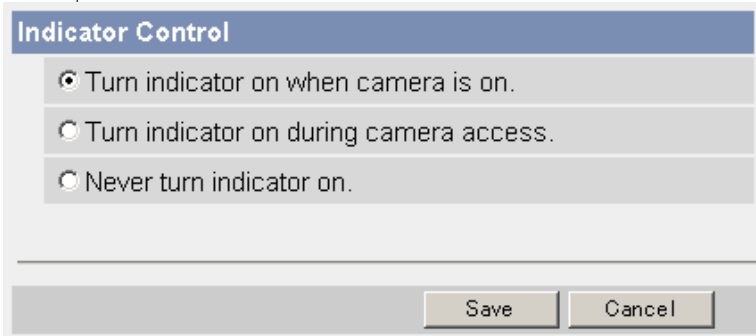
Open (1 to 6 Characters)	<input style="width: 50px;" type="text" value="Open"/>
Short to GND (1 to 6 Characters)	<input style="width: 50px;" type="text" value="Short"/>

- 3.

Setting	Description
External Device Control Output Open	The output is open when the button is pressed.
External Device Control Output Short to GND	The output is shorted to ground when the button is pressed.

5.5 Changing the Indicator Display

1. Tap the indicator icon.
2. Tap the indicator icon.

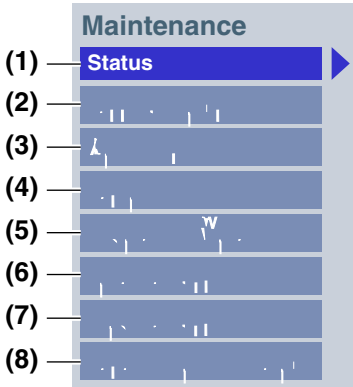


Note

3. Tap the indicator icon.
4. Tap the indicator icon.

6 Camera Maintenance

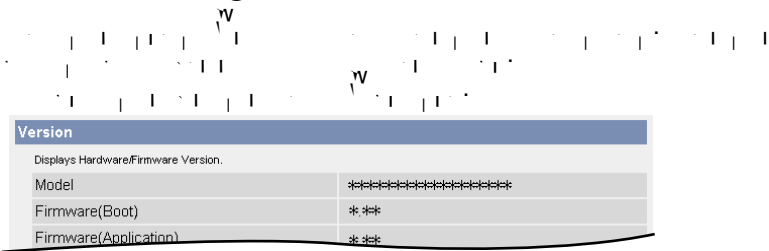
6.1 Maintenance page



Maintenance

- (1) **Status** [155\).](#)
 - (2) **Session Status** [155\).](#)
 - (3) **Alarm Log** [156\).](#)
 - (4) **Restart** [157\).](#)
 - (5) **Update Firmware** [158\).](#)
 - (6) **Save Settings** [160\).](#)
 - (7) **Load Settings** [161\).](#)
 - (8) **Reset to Factory Default** [162\).](#)
-

6.1.1 Confirming the Status



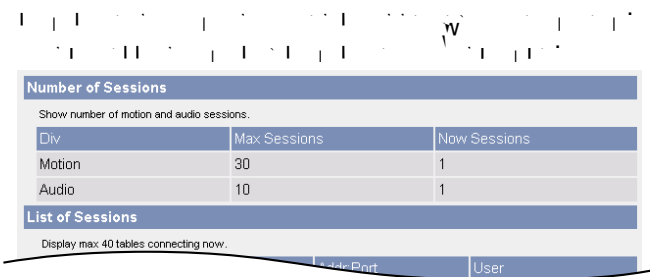
The screenshot shows a web page with a blue header titled "Version". Below the header, there is a description: "Displays Hardware/Firmware Version." This is followed by a table with two columns: the first column lists the version type, and the second column shows the version value. The values for Model, Firmware(Boot), and Firmware(Application) are all "***".

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

Note

— panasonic.co.jp/pcc/products/en/netwcam/ http://

6.1.2 Confirming Session Status



The screenshot shows a web page with a blue header titled "Number of Sessions". Below the header, there is a description: "Show number of motion and audio sessions." This is followed by a table with three columns: "Div", "Max Sessions", and "Now Sessions". The rows are "Motion" and "Audio". Below the table, there is another blue header titled "List of Sessions" and a description: "Display max: 40 tables connecting now." The bottom of the screenshot shows a table with columns for "IP Addr", "Port", and "User".

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.

IP Addr	Port	User
---------	------	------

6.1.3 Confirming Alarm Logs

1. Press **Alarm** on the Home screen.
2. Press **Alarm Log**.

		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

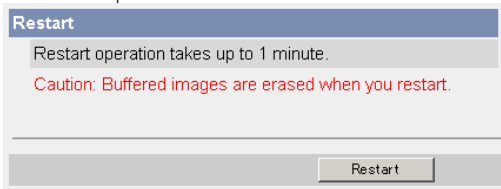
Note

Item	Description
1	Alarm Log
2	Alarm Log (1, 2)
3	Alarm Log (1, 2)
4	Alarm Log (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.
 - 2.



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

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.

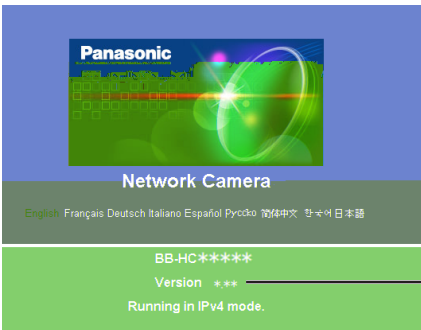
Caution: Never turn off the power, during the firmware update process.

Restarting now...

Restart operation takes up to 1 minute.

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

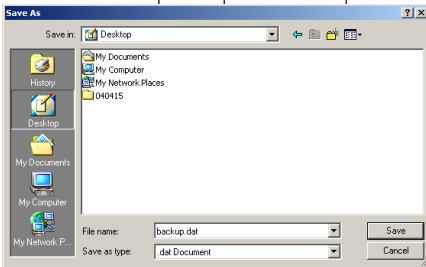
7.



6.1.6 Creating the Configuration File

Note

- 1.
- 2.
- 3.
- 4.

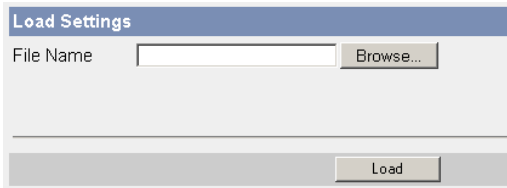


Note

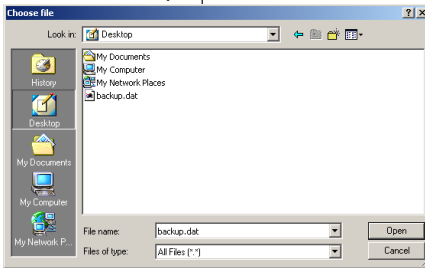
6.1.7 Loading Settings from a Configuration File

Note

- 1.
- 2.



- 3.



- 4.
- 5.

6.1.8 Resetting the Camera to Factory Default

- 1.
- 2.

Reset To Factory Default

The Reset to Factory Default operation takes about 1 minute. This feature will be executed and all camera settings reset to factory default directly after the Execute button is clicked.

Caution: (1) Buffered images are erased when you execute this function.
(2) Never turn off the power during the Reset to Factory Default.
(3) All the network settings will be initialized, and must be reconfigured again.

Execute

Note

6.2 Support page



Support

- (1) **Help**
- (2) **Product Information**
- (3) **Support Information**

6.2.1 The Help page



6.2.2 Product Information

Note

6.2.3 Support Information

Note

6.3 External I/O

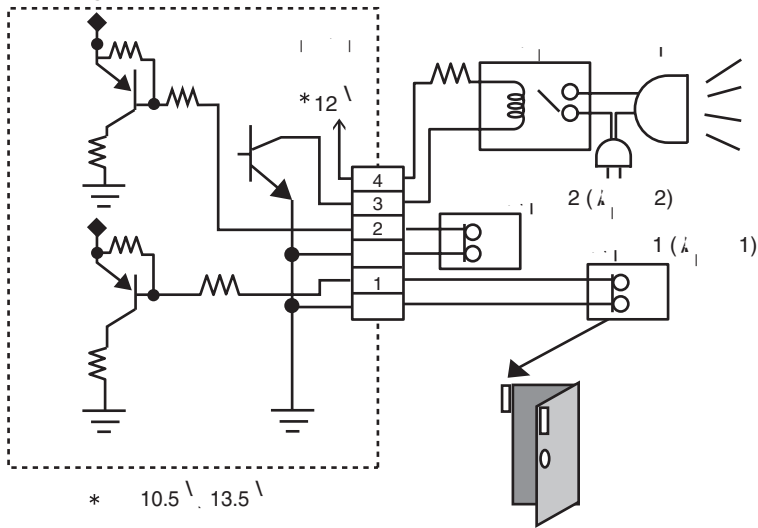
Explanation of the External I/O

Pin	Features
1	1
2	2
3	3
4	4

Note

- (/) 152.

Circuit Diagram Example

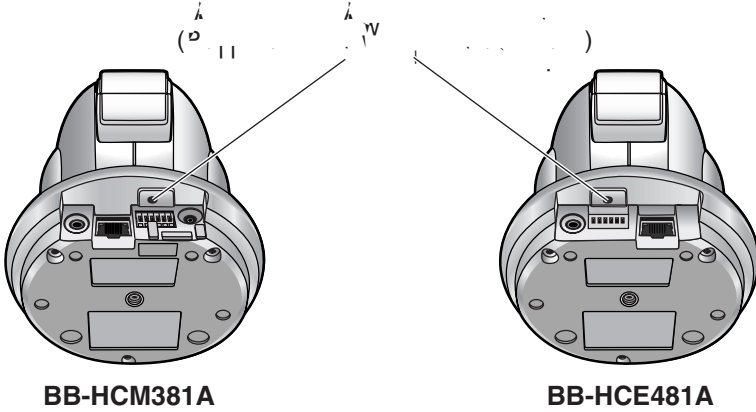


CAUTION

- 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 164).
- 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

7.2 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	(6)		-	
			-	
		80	-	20, 21, 25 110*2
				*1
				*1
				*1
				0.1, 0.2, 0.3, 0.5, 1
				100 100 10 10
D			-	-
		(3)	-	
			-	-
			-	-
D D			-	-
			-	-

	Items	Default	Required	Note
N			-	
				1 255 *8
		10		/10, 30(), 1, 3, 6, 12, 24()
				0 63
				0 63
I		k /p	-	k /p /24
				-
				1 255 *4
		-05:00	-	-
			-	-
		k , 2 k	-	-
		k , 2 k	-	-

Items	Default	Required	Note
			1 15 *6
		-	() /
	60 >	-	50 >, 60 >
		-	
		-	
	-175	-	-175 +175
	0	-	-175 +175
	+175	-	-175 +175
		-	
	-120	-	-120 0
	-90	-	-120 0
	0	-	-120 0

Items		Default	Required	Note
1	()	0	-	0 +90
	()	+90	-	0 +90
	()	+90	-	0 +90
	()		-	10, 20, 30 (), 1, 5, 10, 30 (), 1
	()		-	1, 2/
	()		-	
	()	480	-	480, 240
2	()		-	
	()		-	
	()	1	-	1, 2, 3, 5, 10, 20, 30, 60 ()
	()		-	
	()		-	
	()		-	

Buffer/Transfer

	Items	Default	Required	Note
Buffer	Buffer		-	-
	Buffer		-	1/2/1
	Buffer		-	-
	(Buffer)	320 240	-	160 120, 320 240, 640 480
	Buffer		-	
	Buffer		-	30
	Buffer		-	-
	Buffer			1, 2
Transfer	Transfer		-	-
	Transfer		-	-

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

Items	Default	Required	Note
	.1	-	-
			-
			*1 *5 1 255
	--		20, 21, 25 110 *2
	- 381 - 481		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
 (. . . 2001:2:3:4::5)

*2 1 65535.

*3 (190).

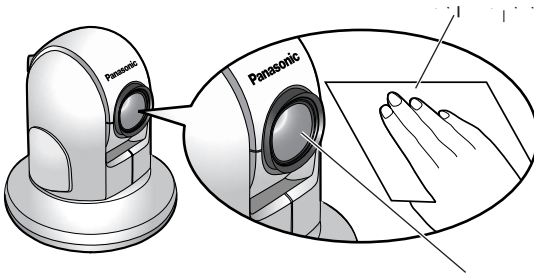
*4 (190).

*5 (190).

*6 (190) (1 15
 1- 1 7 2-)
 &, <, >

*7 ... k ... (... 190) ... (1 15 ...
1- ... 1 7 ... 2- ...) ...
#, &, %, =, +, ~, <, > ...
*8 " ... :

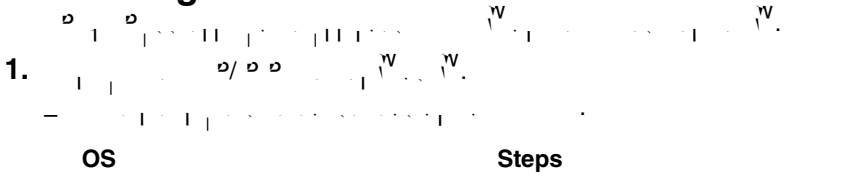


7.3 Cleaning



Note

- Do not use alcohol, benzene, or other solvents to clean the lens. These substances can damage the lens coating.
- Do not use a hard brush or cloth to clean the lens. This can scratch the lens surface.

7.4 Setting an IP Address on Your PC

1.  OS Steps
A screenshot of the Windows 'Network and Sharing Center' window. The 'Change adapter settings' link is highlighted. Below it, the 'Local Area Network' section is expanded, showing the 'Ethernet 2' adapter. The 'Status' bar indicates 'Not connected'. The 'Properties' button is visible.
2.  2000,
A screenshot of the 'Internet Protocol Version 4 (TCP/IPv4) Properties' dialog box. The 'Use the following IP address' radio button is selected. The IP address field contains '192.168.1.100', the subnet mask is '255.255.255.0', and the default gateway is '192.168.1.1'. The 'Advanced' button is visible.
3.  98
A screenshot of the 'Internet Protocol Version 4 (TCP/IPv4) Properties' dialog box with the 'Advanced' tab selected. The 'Advanced' section is expanded, showing the 'Add the following IP addresses' list. The list contains one entry: '192.168.1.98' with a subnet mask of '255.255.255.0'. The 'OK' button is highlighted.

Local IP Address

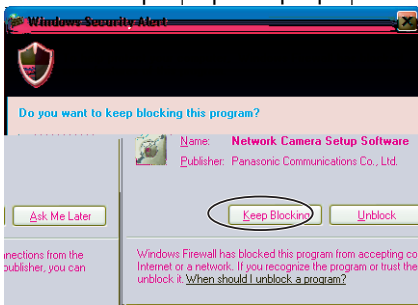
1.  A screenshot of the Windows 'Network and Sharing Center' window. The 'Change adapter settings' link is highlighted. Below it, the 'Local Area Network' section is expanded, showing the 'Ethernet 2' adapter. The 'Status' bar indicates 'Not connected'. The 'Properties' button is visible.

7.5 Using Setup Program

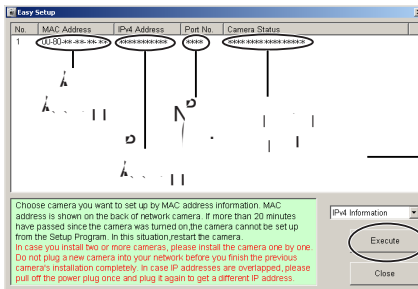
Finding the camera

1. Open the Network Camera software.
2. Click on the Camera Setup button.

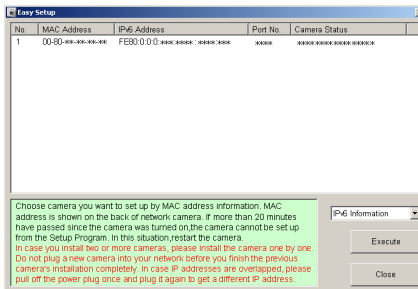




IPv4 Information



IPv6 Information



Note

3.

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

1.

Note

The 'Easy Setup' dialog box contains the following information:

No.	MAC Address	IPv4 Address	Port No.	Camera Status
<p>If no camera appears on, please confirm the following items.</p> <ul style="list-style-type: none">- Your camera must be turned on and connected to the same network as your PC.- If your PC is enabling network firewalls, temporarily disable them during the camera installation. <p>*When no camera appears even if you confirmed the items above, you can set up the camera using the camera MAC address. Enter the MAC address (e.g., 0080F0xxxxxx) labeled near the Ethernet (LAN) port of the camera. Then click "Set up camera" button. *This program cannot set up the camera over 20 minutes after restart.</p>				
MAC Address				Set up camera

Choose camera you want to set up by MAC address information. MAC address is shown on the back of network camera. If more than 20 minutes have passed since the camera was turned on, the camera cannot be set up from the Setup Program. In this situation, restart the camera.
In case you install two or more cameras, please install the camera one by one. Do not plug a new camera into your network before you finish the previous camera's installation completely. In case IP addresses are overlapped, please pull off the power plug once and plug it again to get a different IP address.

IPv4 Information: [Dropdown menu]
Execute
Close

2.

The 'Automatic Setup' dialog box contains the following information:

The camera's network settings will be configured based on this computer's network settings.

Confirm the network settings for the camera below and make necessary changes. After that, click "OK" to proceed.
*Network settings may be shown incorrectly depends on computer model or other conditions.

The following network settings will be assigned to the camera.

IP Address	*** . *** . *** . ***
Subnet Mask	255 . 255 . 255 . 0

OK Cancel

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: *:*:*:*:*:*:*:*:*:*

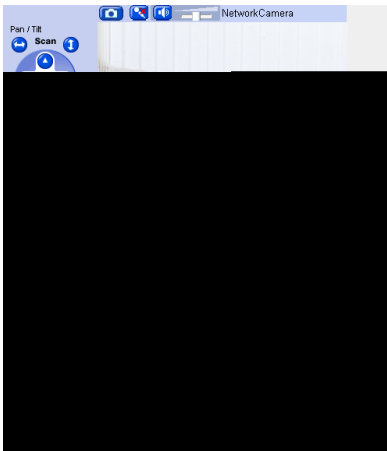
Realm: *:*:*:*:*

User Name:

Password:

Save this password in your password list

5.



Note

- **When you are using a router that supports UPnP™**

1. **1.** (67)
2. **2.** (70)
3. **3.** (13), (10)

- **When you are using a router that does not support UPnP™**

(68).

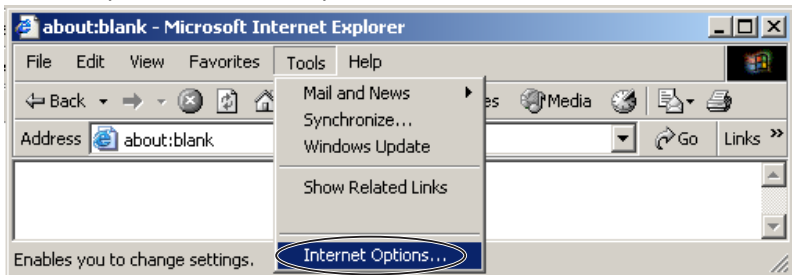
7.6 Setting Your PC

7.6.1 Setting Proxy Server Settings on a Web Browser

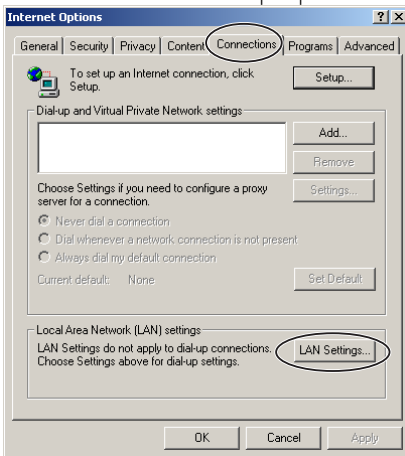
Note

How to Set Proxy Server Settings

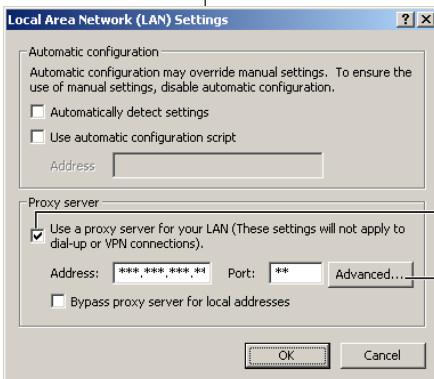
1. Open Internet Explorer (version 6.0 or later).
2. Click on Tools → Internet Options.



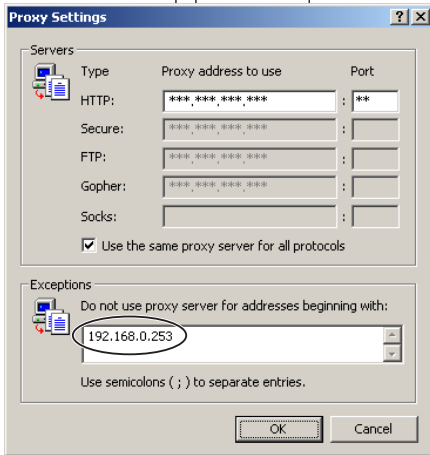
3.



4.



5.



6.

Note

7.6.2 Setting UPnP™ to Display Camera Shortcut in My

7.7 ASCII Character Table

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

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
	()	370,000	180,000	94,000
120	()	260,000	130,000	67,000
	()	230,000	110,000	58,000
320	()	115,000	58,000	29,000
	()	70,000	37,000	18,000
640	()	90,000	47,000	23,000
	()	55,000	28,000	14,000
480	()	35,000	18,000	9,000
	()			

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

7.10 Specifications

Network Camera

Items	Specifications
1. / 2.	12, 42 (21, 2)
3.	$\theta: -175^\circ \sim +175^\circ$ $\phi: -120^\circ \sim 0^\circ$ ()/ $0^\circ \sim +90^\circ$ ()
4.	$1/4$ - (), 380,000 ()

Other Specifications

Items	Specifications
	BB-HCM381A: 100 240 \ , 50/60 > 12 \ , 1 : 12 BB-HCE481A: : 48 \ 802.3 - : 11
	$\pm 15,$
	: 0, (+32,) +40, (+104,) : 0, (+32,) +50, (+122,)
	: 20% 80% () : 20% 80% ()

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

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