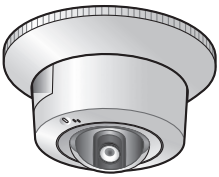


Panasonic®

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]

[illegible]

SD Memory Card Recording

[illegible] (640 480 , 320 240 , 160 120) [illegible]

1- [illegible] / 2 [illegible] . 110,000[*8] (320 240 [illegible]) 80 [illegible]

Multi-Camera Page[*9]

[illegible] 2- [illegible] 4 (-). [illegible] 3 4 [illegible] 12 [illegible]

Other Features

- 320,000- [illegible]
- [illegible]
- 4/ 6 [illegible]

Abbreviations

- [illegible]
- [illegible]
- [illegible]

Trademarks

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

Table of Contents

1 Camera Monitoring 8

1.1 8
1.1.1 8
1.1.2 9
1.1.3 9
1.2 10
1.3 11
1.3.1 6 13
1.4 15
1.4.1 18
1.4.2 19
1.4.3 ( ) 20
1.4.4 21
1.4.5 22
1.4.6 23
1.4.7 ( ) 24
1.5 25
1.6 27
1.7 29
1.7.1 31
1.8 32
1.8.1 / 34

2 Using the Camera's Basic Features 35

2.1 35
2.2 4 38
2.3 6 43
2.4 47
2.5 50
2.6 53
2.7 ( ) 57
2.7.1 (4) 58
2.7.2 (4) 58
2.8 60

2.8.1 (4/ 6) 65
2.9 67
2.10 70
2.11 73

3 Registering Users 75

3.1 75
3.2 79
3.3 80

4 Buffering or Transferring Images 83

4.1 83
4.2 84
4.3 94
4.4 106
4.5 118
4.6 119
4.7 120
4.8 124
4.9 127
4.9.1 129
4.9.2 130
4.9.3 131

5 Using Other Features 132

5.1 132
5.2 135
5.3 137
5.4 139
5.5 140

6 Camera Maintenance 141

6.1 141

6.1.1 142
6.1.2 142
6.1.3 143
6.1.4 144
6.1.5 145
6.1.6 147
6.1.7 148
6.1.8 149
6.2 150
6.2.1 150
6.2.2 150
6.2.3 150
6.3 151

7 Other Information 153

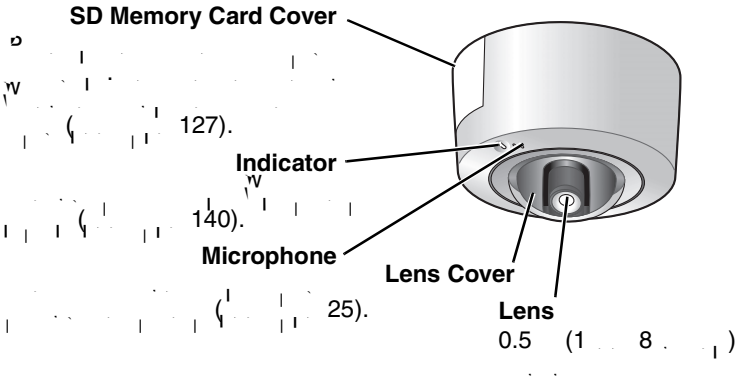
7.1 153
7.2 154
7.3 155
7.4 156
7.5 162
7.5.1 162
7.5.2 165
7.5.3 165
7.6 166
7.7 176
7.8 177
7.9 178
7.10 179

8 Index 182

1 Camera Monitoring

1.1 Feature Locations

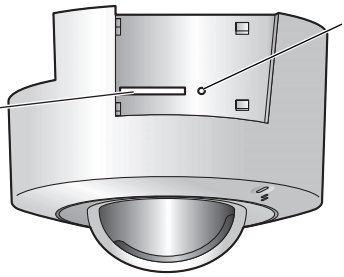
1.1.1 Front View



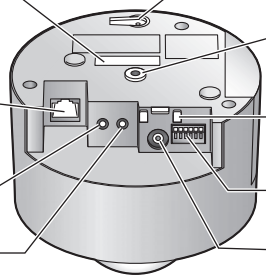
Indicator Display

*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)

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

Note

1.3 Accessing the Camera

1. [illegible]

2. [illegible] "**http://IPv4 Address (or URL):Port Number**" [illegible]

– [illegible] 80 ([illegible]), [illegible] 40 [illegible]

– [illegible] 6 [illegible] 13 [illegible] 14, [illegible]

[illegible] "**http://(IPv6-registered URL):Port Number**" [illegible]

– [illegible] 9 [illegible]

[illegible] ://192.168.0.253:50000 **(in IPv4)**

[illegible] ://✳✳✳✳✳. [illegible] :50000 **(in IPv6)**

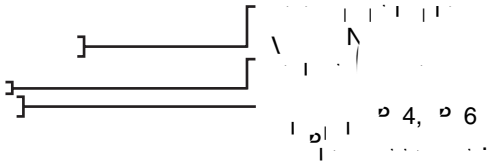
3. [illegible]

Note

– [illegible] :

4. [illegible]

A **B** **C** **D** **E** **F** **G**



A	[illegible] (15)	**B**	- [illegible] (27)
C	[illegible] (29)	**D**	[illegible] (35)
E	[illegible] (141)	**F**	[illegible] (150)
G	[illegible] (79)		

Note

– [illegible] ( )

– [illegible]

5. [illegible]

1.3.1 To Access the Camera in IPv6

[illegible] 6.

- **PC Requirements**
  Operating System: [illegible] 1
  Web Browser: [illegible] 6.0
- **An IPv6 Router**
- **An IPv6 Connection Service**
  [illegible] 6, [illegible] 4/ 6 [illegible] 4 [illegible] 6- [illegible]

IPv6 Domain Name Service

[illegible] 6 [illegible] 60) [illegible] 6 [illegible]

What is IPv6?

- 6 [illegible] 6".
- 6 [illegible]
- 6 [illegible] 4, [illegible] 2 [illegible]
- [illegible] ([illegible]) [illegible] 6, [illegible] 6, [illegible] !
- [illegible] **http://www.ipv6.org/**.

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

Setting up the IPv6 Router

[illegible] 6 [illegible]
http://panasonic.co.jp/pcc/products/en/netwkcam/ [illegible]

Setting up your PC

1. [illegible]

– [illegible]

2. [illegible] 6 [illegible].

– [illegible]

Note

– [illegible] 1 [illegible]

– [illegible] 2, [illegible]

3. [illegible].

– [illegible] 6 [illegible] 6 [illegible]

Setting up the Camera

[illegible] 6 [illegible] 43. [illegible] 6, [illegible] 6 [illegible]

Confirming that You Can Access the Camera

[illegible] (11).

1.4 Viewing the Single Camera page

1. [illegible] ([illegible] 11).

– [illegible]

2. [illegible]

– [illegible] ([illegible] 17).

– [illegible] 18 [illegible] 2.

Capture Image Button ([illegible] 22)

Operation Bar ([illegible] 23)

Audio Control Bar (Talk Button, Listen Button and Adjustment Bar) ([illegible] 25)

Click to Center ([illegible] 20, [illegible])

Click the URL in case of no audio.

Displaying to operate with IPv4, IPv6, or IPsec.

Banner (optional) ([illegible] 18)

3. [illegible]

Note

– [illegible]

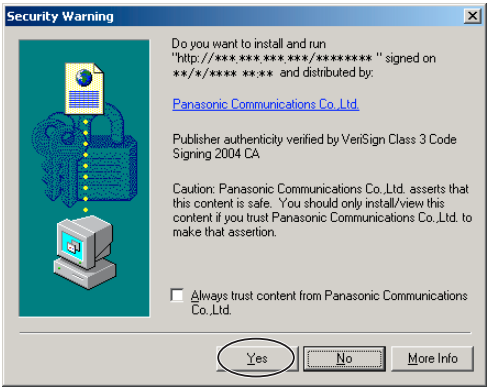
– [illegible] ([illegible] 23).

- [illegible]
- [illegible] ([illegible]), [illegible] 30 [illegible] 31 [illegible] 30 [illegible]
- [illegible] ([illegible] 80).
- [illegible]
- [illegible] ([illegible] 70). [illegible] (1 [illegible]) [illegible] . ([illegible] 70). [illegible]
- [illegible]

Error Message	Cause and Remedy
[illegible]	[illegible] ([illegible] 137).
[illegible]	[illegible] 30 [illegible]

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)

– **http://panasonic.co.jp/pcc/products/en/netwkcam/**.

Note

–

–

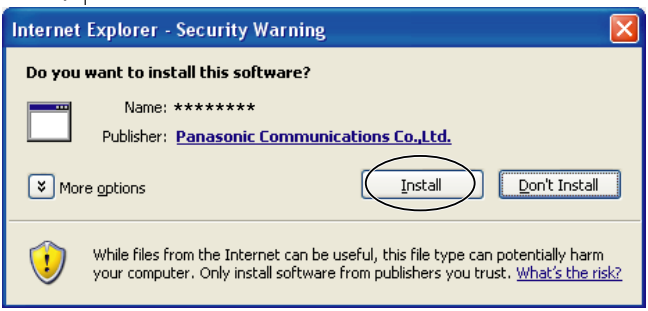
– 162).

–

Security Warning window on Microsoft Windows XP Service Pack 2

1.

2.



1.4.1 Displaying the Banner

132).

1.4.2 Zooming In and Out

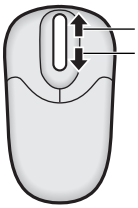
10

Note

- 1.
-
-
-

Clicking the right mouse button (For Only Video)

Rotating the mouse wheel (For Only Video)



Note

-

1.4.3 Auto Centering the Image (Click to Center)

1.

2.

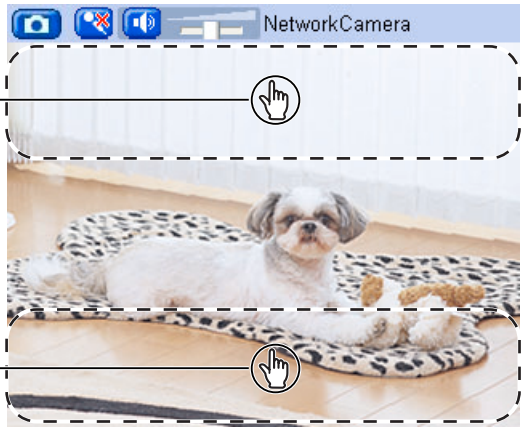
– 21

Note

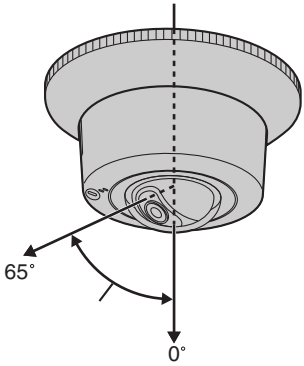
– 1 ( ).

– (23).

1.4.4 Tilt Operation



Tilt range



Note

–

–

1.4.5 Capturing a Still Image

1.

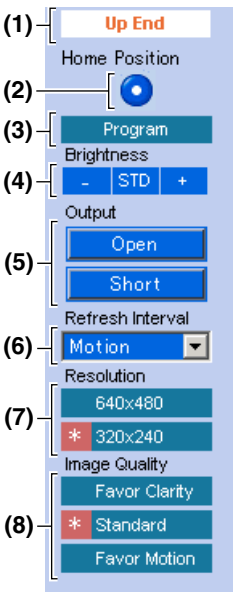
2.

3.

4.

5.

1.4.6 Using the Operation Bar



(1) End Display:

(2) Home Position (the administrator only):

(3) Program (the administrator only):

(4) Brightness: 9

(5) Output Control:

(6) Refresh Interval:

(7) Resolution: 640 480 320 240

(8) Image Quality:

1.4.7 Setting the Home Position (the administrator only)

Registering the Home Position

1.
2.
3.
4.

Viewing the Home Position

1.

Note

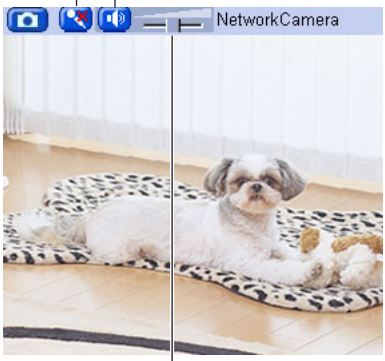
1.5 Listening to Camera Audio and Talking through the Camera

1. [illegible] ([illegible] 11).
2. [illegible]
3. [illegible] ([illegible]) [illegible]

Audio Feature

Listen Button

Talk Button



: [illegible]

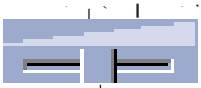
: [illegible]

: [illegible]

: [illegible]

Adjustment Bar

([illegible])



[illegible]

Note

- [illegible] 10 [illegible] 41 46). [illegible]
- [illegible] 73).
- [illegible]
- [illegible] ( ) [illegible]
- [illegible] (41 46).
- [illegible]
- [illegible]
- [illegible] 16 [illegible]
- [illegible] 7 (23).
- [illegible]

1.6 Viewing the Multi-Camera page

(135).

1. (11).

2.

12

Capture Image Button (22)

( )

320 240
( ) 160 120

(60
).

. 1.

Audio Control Bar (Talk button, Listen button and Adjustment Bar)
(25)

3.

Note

- 160 120
- 640 480-
- ( ),
- (41 46).
- (80).
- 4 - 3 4

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

- (. 192.168.0.253) (11 -).
- - (135).
- (162).

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

- .
- -

Using the digital zoom feature on the Multi-Camera page

- 10 (19).
- (1.0 10.0)
- .

1.7 Viewing the Buffered Image page

(84, 94, 106).

Note

–

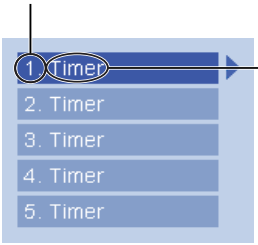
1. (11).

–

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

- 10 [illegible] (19).
- (1.0 10.0) [illegible]
- [illegible]

Note

- [illegible]
- [illegible]
- [illegible]
- ( ) [illegible]
- [illegible] 320 240 125 (3 5 3 40) 177 178 [illegible]

1.7.1 Deleting Buffered Images

[illegible] (84, 94, 106).

Note

- [illegible]
- [illegible] / / (84, 94, 106).

1.8 Viewing Still Images on Your Cell Phone

"http://IP address (or URL):Port Number/Mobile"

– 80 ( ),

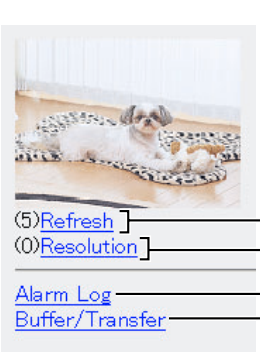
://✱✱✱.✱✱✱.✱✱✱.✱✱✱:50000/

(✱✱✱✱✱. :50000/)

–

–

– ( )

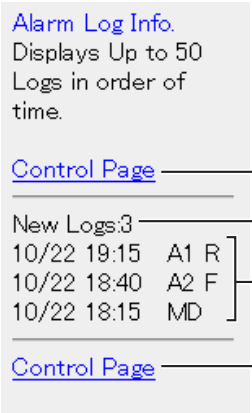


(1) 5

(2) 160 120 0 320 240.

(3) 50 ( ).

(4) / / 34).



(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

- [illegible]
- [illegible] (80), [illegible]
- [illegible] 2 [illegible]

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

- [illegible] 80, [illegible] **http://panasonic.co.jp/pcc/products/en/netwkcam/** [illegible]
- [illegible]
- [illegible] ( ) [illegible] (75).
- [illegible]

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

1. [illegible]
2. [illegible]
3. [illegible]

   [illegible] (1).

   Buffer/Transfer

   No.Status Trigger

   (1) OFF Timer
   (2) OFF Timer
   (3) OFF Timer
   (4) OFF Timer
   (5) OFF Timer

   Control Page

   – [illegible]

4. [illegible]

   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 :-

   – [illegible]

   – [illegible]

2 Using the Camera's Basic Features

2.1 Setup Page of the Camera

1. [illegible] ([illegible] 11).

– [illegible]

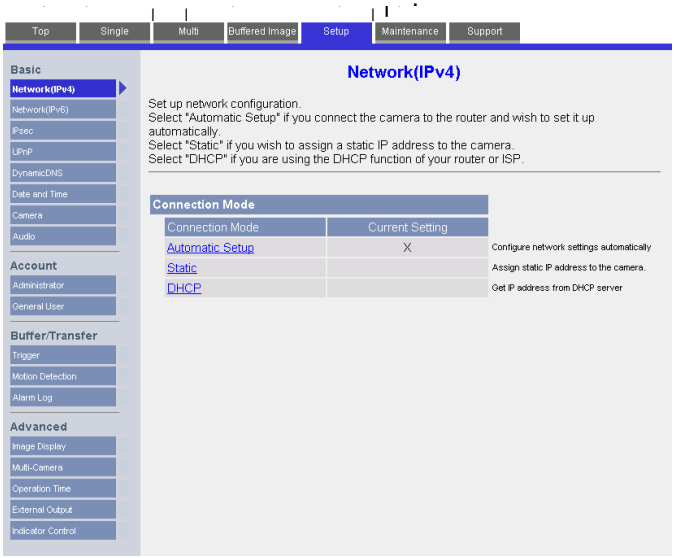
Note

– [illegible]

– [illegible]

– [illegible]

2. [illegible]



(1) [illegible]
(2) [illegible]
(3) [illegible]
(4) [illegible]
(5) [illegible]
(6) [illegible]
(7) [illegible]
(8) [illegible]
(9) [illegible]
(10) [illegible]
(11) [illegible]
(12) [illegible]
(13) [illegible]
(14) [illegible]
(15) [illegible]
(16) [illegible]
(17) [illegible]
(18) [illegible]

Basic		
(1)	**Network (IPv4)**	[illegible] 4 [illegible] (38).
(2)	**Network (IPv6)**	[illegible] 6 [illegible] (43).
(3)	**IPsec**	[illegible] ([illegible]) ([illegible] 47).
(4)	**UPnP**	[illegible] (57).
(5)	**DynamicDNS**	[illegible] (60).
(6)	**Date and Time**	[illegible] (67).
(7)	**Camera**	[illegible] (70).
(8)	**Audio**	[illegible] (73).
Account		
(9)	**Administrator** *1	[illegible]) ([illegible] 75).
(10)	**General User**[*1]	[illegible] ([illegible] 80).
Buffer/Transfer		
(11)	**Trigger**	[illegible] (84, [illegible] 94, [illegible] 106).
(12)	**Motion Detection**	[illegible] (120).
(13)	**Alarm Log**	[illegible] - [illegible] (124).
Advanced		
(14)	**Image Display**	[illegible] (132).
(15)	**Multi-Camera**[*1]	[illegible] - [illegible] 12 [illegible]) ([illegible] 135).

(16) Operation Time [illegible] 137).

(17) External Output [illegible] / [illegible] 139).

(18) Indicator Control [illegible] 140).

*1 [illegible]

2.2 Connecting the Camera to Your IPv4 Network

4.

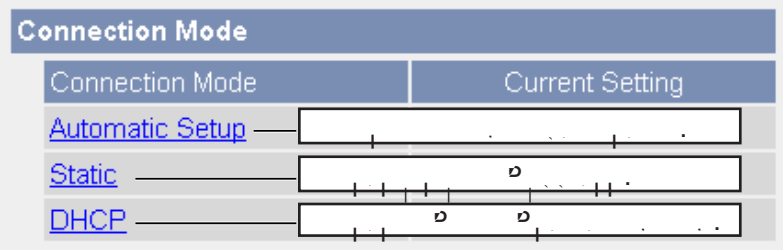
–

–

–

1. (4)

2.

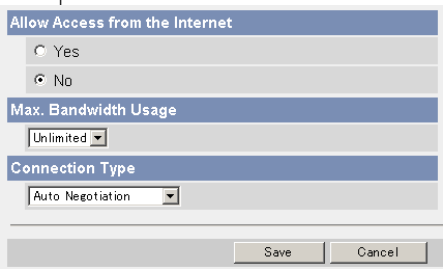


–

3.

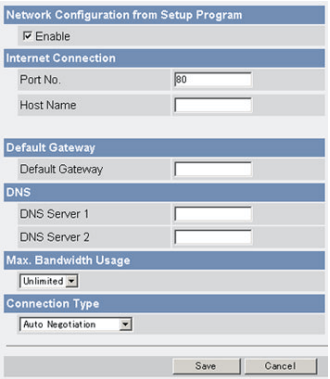
Automatic Setup

80 50000 50050.

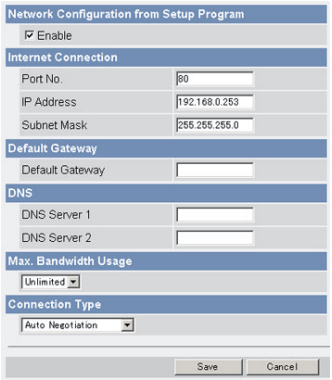


–

DHCP Setup



Static Setup



–

4.

–

–

Automatic Setup or DHCP Setup

Static Setup

Note

–

(142).

5.

–

–

Note

– [illegible] 156).

– [illegible]

Setting	Description
[illegible] ([illegible])	[illegible] 80 [illegible] 50000 [illegible] 50050. [illegible]
[illegible] ([illegible])	[illegible]
[illegible] ([illegible])	[illegible] 80. [illegible] 58 "2.7.2 [illegible] 4 [illegible]"). [illegible] : 20 [illegible] 21, [illegible] : 23, [illegible] : 25, [illegible] : 53, [illegible] 3: 110, [illegible] : 443, [illegible] : 4000 [illegible] : 6661 6667. [illegible] 1 65535. [illegible] 80. [illegible]
[illegible] ([illegible])	[illegible] 155). [illegible] 4 [illegible] (0 255) [illegible] 3 "192.168.0.253". [illegible] "0.0.0.0" [illegible] "255.255.255.255" [illegible]

Setting	Description
( )	176). , " , , & , < >
*1 (/)	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255"
*1 (/)	4 (0 255) 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
[illegible]	[illegible] 9 [illegible] 4 [illegible] 6.

*1 [illegible]

2.3 Connecting the Camera to Your IPv6 Network

[illegible] 6.

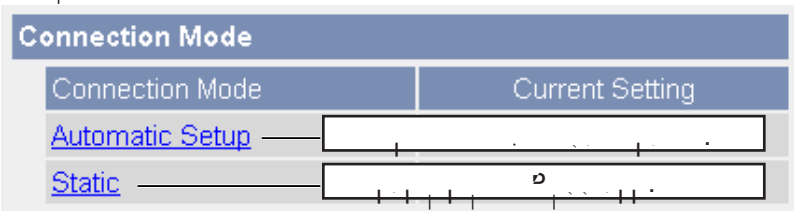
– [illegible] 6 [illegible]

– [illegible] 6 [illegible]

Note

– 6 [illegible] 6 [illegible]

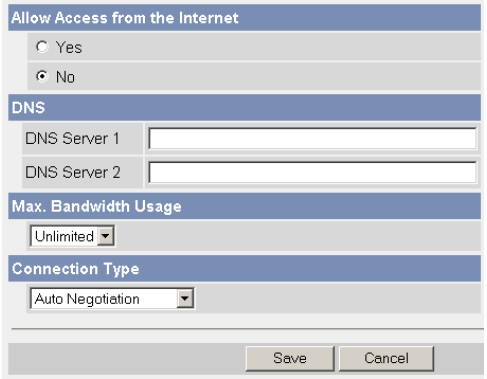
1. [illegible] (6) [illegible]
2. [illegible]



3. [illegible]

Automatic Setup

[illegible] 6 [illegible] 6 [illegible] 6 [illegible] 6 [illegible] 6 [illegible]



– [illegible]

Static Setup

6

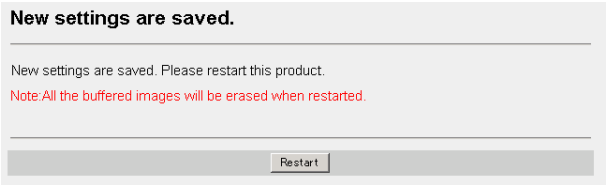
6

–

4.

–

–



Note

–

(142).

5.

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Note

–

(156).

(142)

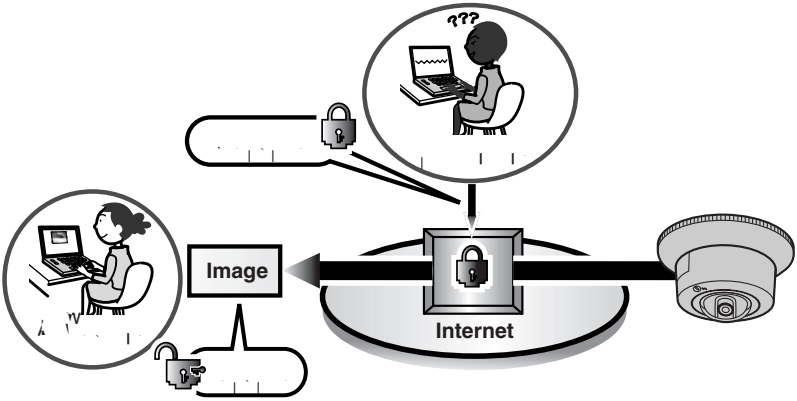
4.

–

Setting	Description
[illegible]	[illegible] 6
[illegible] ([illegible])	[illegible] 80. [illegible] [illegible]: 20 21, [illegible]: 23, [illegible]: 25, [illegible] : 53, [illegible]3: 110, [illegible] : 443, [illegible] : 4000 [illegible] : 6661 6667. [illegible] 1 65535. [illegible] 80. [illegible]
[illegible] ([illegible])	[illegible] 6 [illegible] 8 [illegible] ":." [illegible] 0 [illegible] "::". ([illegible] . 2001:2:3:4::5)
[illegible] ([illegible])	[illegible] 6 [illegible] 6 [illegible] 8 [illegible] ":." [illegible] 0 [illegible] "::". ([illegible] . 2001:2:3:4::5)
[illegible]	[illegible] 6 [illegible] 8 [illegible] ":." [illegible] 0 [illegible] "::". ([illegible] . 2001:2:3:4::5)

Setting	Description
[illegible]	[illegible] 0.1 [illegible] 4 [illegible] 6. **Note** [illegible] 160 120 : [illegible] 3.5[illegible] (28[illegible]) 320 240 : [illegible] 10[illegible] (80[illegible]) 640 480 : [illegible] 18[illegible] (144[illegible])
[illegible]	[illegible] 9 [illegible] 4 [illegible] 6.

2.4 What is IPsec?



Camera's IPsec Features

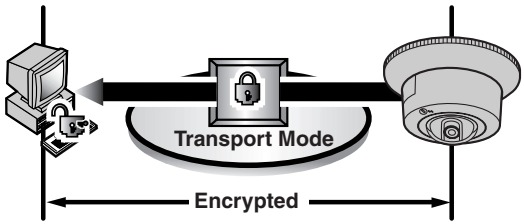
4 6.

Item	Supported Feature
1	1 : *1 2 : : - , 3 - , - (128, 192, 256) - : - 5, - -1
	( )*2 : - , 3 - , - (128, 192, 256) - : - 5-96, - -1-96

*1
*2 ( ).

IPsec Mode Selection

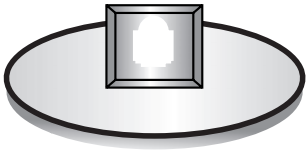
Transport Mode (IPv4 Only)



Item	Supported Feature
	6.0 **Note** **http://panasonic.co.jp/pcc/products/en/netwkcam/**

Tunnel Mode (IPv4/IPv6)

Note



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

2.5 Encrypting the Camera Image in Transport Mode

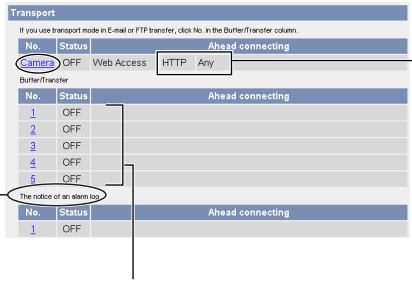
Note

– [illegible]

1. [illegible]

2. **Camera** [illegible]

– [illegible] **No.** [illegible] /

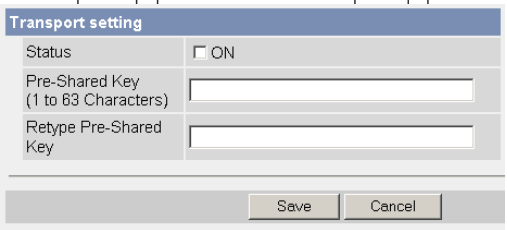


[illegible] (124) [illegible] (118).

Note

– [illegible] 1, [illegible] 2 [illegible]

3. [illegible]

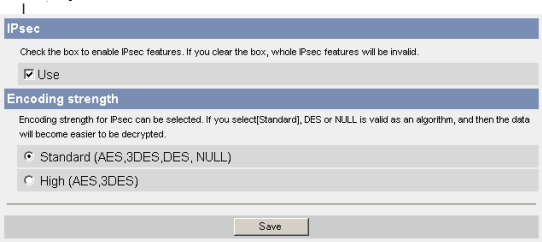


Setting	Description
[illegible]	[illegible]
[illegible]	[illegible] 176). [illegible] , " , , & , < > [illegible] **Note** [illegible]

4. [illegible]

5. [illegible]

6. [illegible]



Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]

7.

8. 48.

–

9. (11).

–

Note

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23

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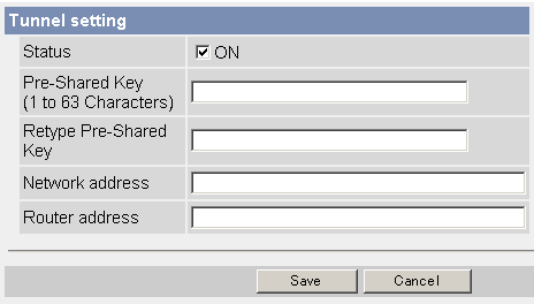
http://panasonic.co.jp/pcc/products/en/netwkcam/

2.6 Encrypting the Camera Image in Tunnel Mode

Note

1.
2. **Add**

3.



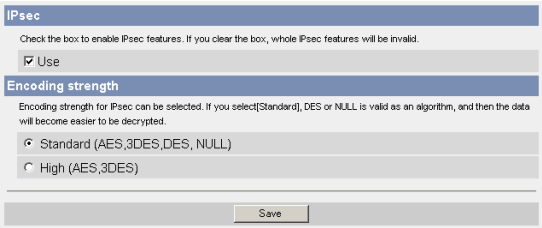
Setting	Description

Setting	Description
[illegible]	[illegible] 176). [illegible] , " , , & , < > [illegible] **Note** [illegible]
[illegible]	[illegible] " [illegible] / [illegible] " [illegible]
[illegible]	[illegible] **Note** – [illegible] 6 [illegible] – [illegible]

4. [illegible]

5. [illegible]

6. [illegible]



Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]

7. [illegible]

8. [illegible]

IKE Items		Settings
[illegible] 1	[illegible]	[illegible]
		[illegible]
		[illegible] *1 [illegible]
	[illegible]	[illegible] 1 2.
	[illegible]	[illegible] - , 3 - [illegible] - (128, 192, 256 [illegible]). ([illegible].)
	[illegible]	[illegible] - 5, [illegible] - [illegible]-1
		[illegible] 28800 [illegible] ([illegible].)
[illegible] 2	[illegible]	[illegible]
	[illegible]	[illegible] , - 1 - 2.
	[illegible]	[illegible] - , 3 - , [illegible] - (128, 192, 256 [illegible]) [illegible]. ([illegible].)
	[illegible]	[illegible] - 5-96, [illegible] - [illegible]-1-96
		[illegible] 28800 [illegible] ([illegible].)

*1 [illegible]

–

Items	Settings

9. (11).

–

Note

–

– 23

–

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

2.7 Using UPnP™ (Universal Plug and Play)

[illegible]

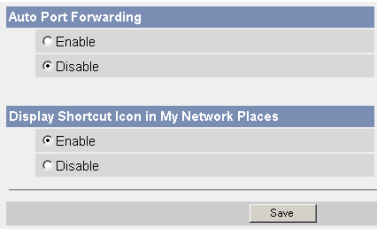
http://panasonic.co.jp/pcc/products/en/netwkcam/ [illegible]

Note

– [illegible] 6. [illegible] 4.

1. [illegible]

2. [illegible]



Setting	Description
[illegible]	– [illegible] **Note** – [illegible] (40).
[illegible]	– [illegible] **Note** – [illegible] (165).

3. [illegible]

– [illegible]

– [illegible]

4.

–

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

Note

–

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

–

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

1. (4)

(1) (11).

(2)

(3)

–

Note

–

(4)

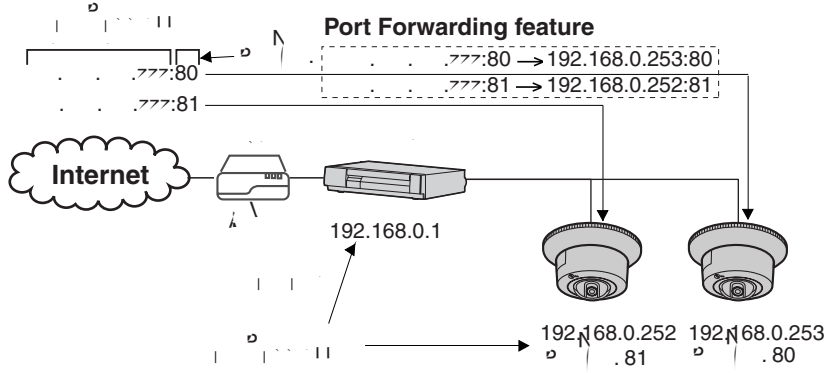
(5)

2. *1

1-(3),

3.

Port Forwarding feature[*1] (IPv4 Only)



Note

–

*1

2.8 Registering with the DynamicDNS Service

http://www.viewnetcam.com

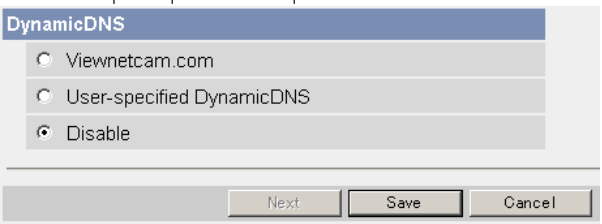
1.

– ( )

– (62)

When you select [Disable]

2.

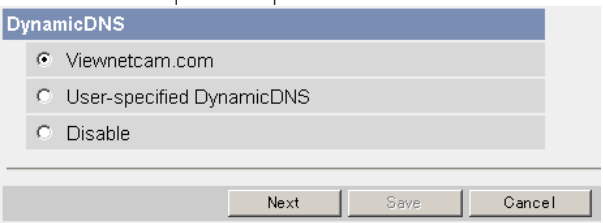


– " !"

–

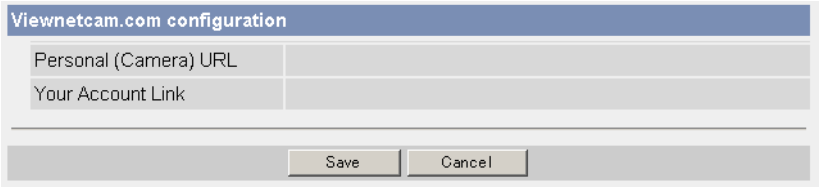
When you select [Viewnetcam.com]

2.



–

3.



–

Setting	Description
	–
	–

4.

–

–

5.

–

6. **Your Account Link**.

–

Note

–

(1)

(2)

–

–

7.

8. (11).

Note

– 30

– ( )

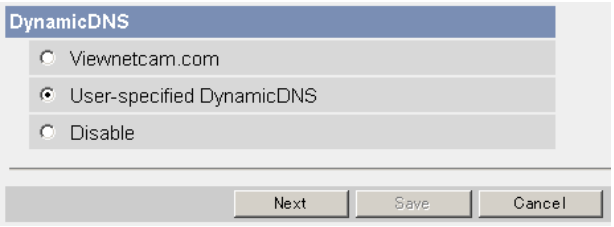
Confirming Internet access

– (11)

– (32)

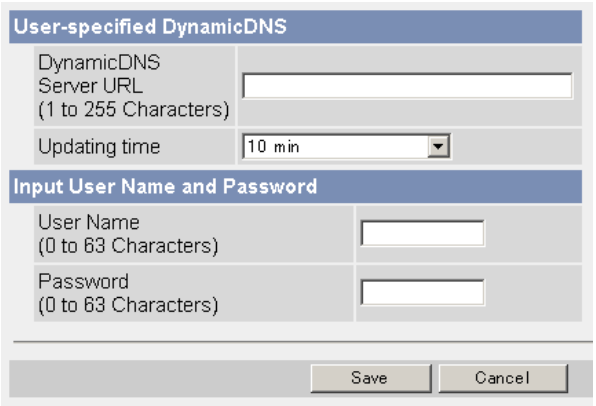
When you select [User-specified DynamicDNS]

2.



–

3.



Setting	Description
*1	255 ://".
*2	63
*2	63

*1
*2

4.

5.

Note

Confirming Internet access

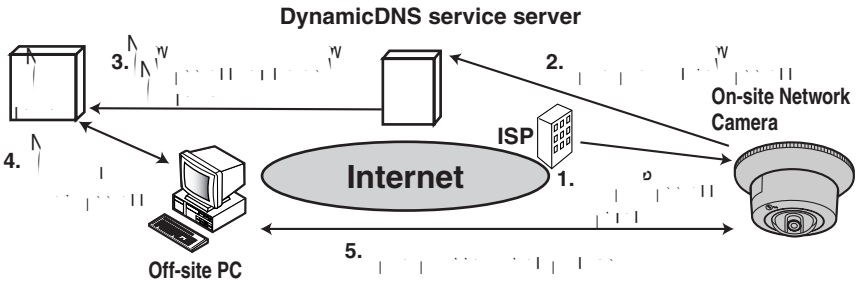
[illegible] :

- [illegible] (11)
- [illegible] (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,

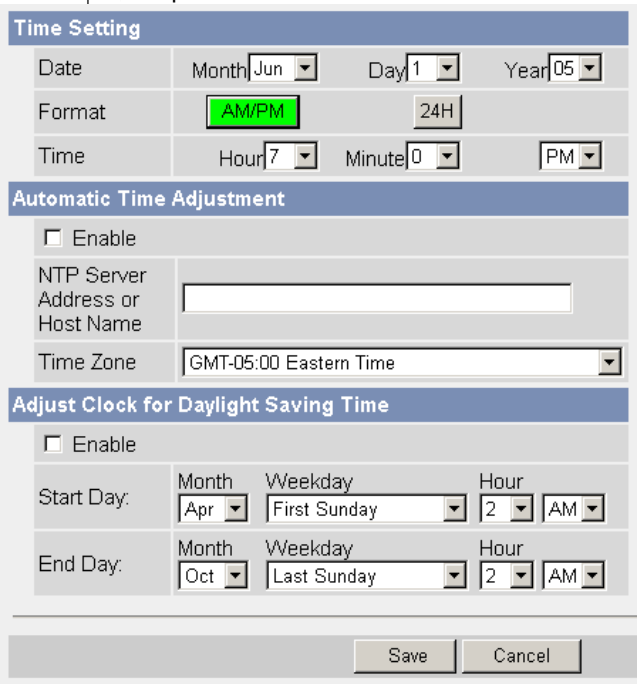
80: **http://(Cameraname).viewnetcam.com**

: **http://(Cameraname).viewnetcam.com:Port Number**

2.9 Setting the Date and Time

Note

1.
2.



Setting	Description
[illegible]	[illegible] (/ 24). [illegible] 24 .
[illegible]	[illegible] ( ) [illegible] 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) (1 255). [illegible] **Note** [illegible] 1 [illegible]
[illegible]	[illegible] **Note** [illegible]

3. [illegible]

– [illegible]

– [illegible]

4.

–

Note

–

2.10 Changing Camera Settings

1.
2.

–

Setting	Description
	(176) (1 15 1- 1 7 2-). , " , , & , < , >
	"( )" ( ) (2800) ( ) (3600) ( ) (4000) (6000) **Note**
	: (1). **Note**

3. [illegible]
   - [illegible]
   - [illegible]
4. [illegible]
   - [illegible]

2.11 Adjusting Audio

1.
2.

Setting	Description
	. (1 60)
	( )

3. [illegible]
   - [illegible]
   - [illegible]
4. [illegible]
   - [illegible]

3 Registering Users

3.1 Changing the Authentication Setting and Administrator User Name and Password

[illegible]

Note

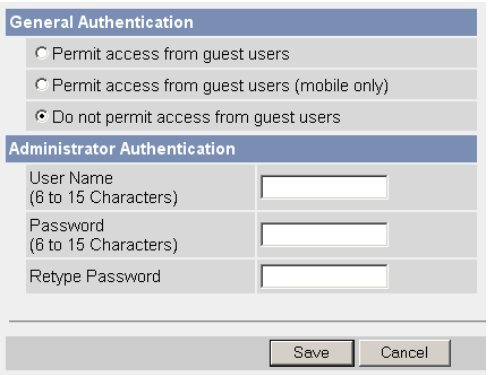
- [illegible]
- [illegible]
- [illegible]

IMPORTANT

- [illegible]

1.

2.



Setting	Description
	3 ( ), **Note** 79), 

Setting	Description
[illegible]	[illegible] (6 15 [illegible]): [illegible] (6 15 [illegible]): [illegible] **Note** [illegible] [illegible] : [illegible] ([illegible] 176). ", , & , < , > [illegible]

Note

- [illegible]
- [illegible]
- [illegible]

3. [illegible]

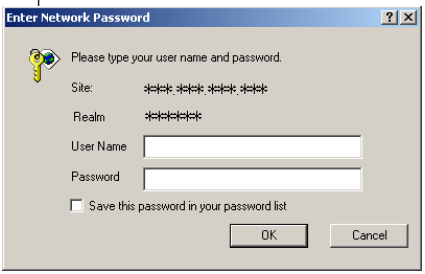
- [illegible]
- [illegible]

4. [illegible]

- [illegible]

Note

- [illegible]



Administrator/General Users/Guest Users

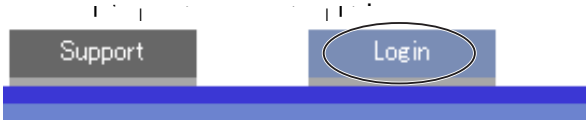
Items	Administrator	General Users	Guest Users	Guest Users (mobile only)
	1	50		
		(80).	(80).	

Note

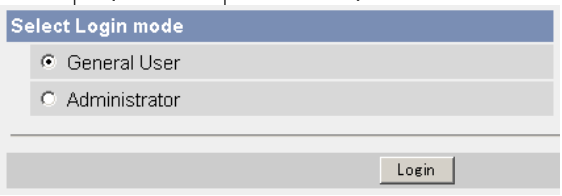
– ( ) : (75)

3.2 Logging in to the Camera

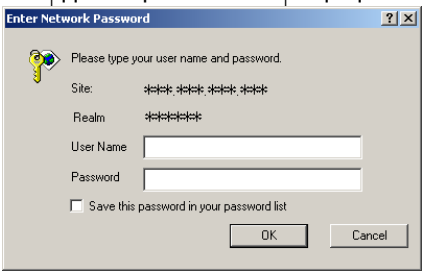
1.



2.



Note



3.

3.3 Creating, Modifying or Deleting General Users

50

( )

Note

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1.

2.

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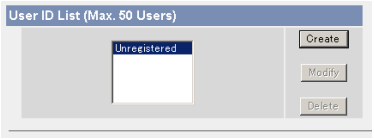
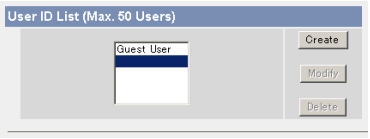
–

( )





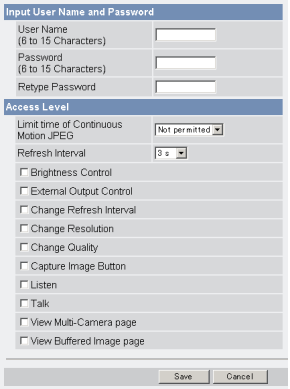
–

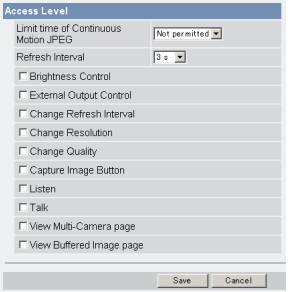
–

3.

–

–





–

Setting	Description
	– 50 –
/	– (6 15): – (6 15): **Note** – – : – (176). , ", , &, <, > :

Setting	Description
[illegible]	[illegible] 10 60 (3 60 23) 23) 23) 23) 23) 22) 25) 25) 27) 29)

4. [illegible]

– [illegible]

– [illegible]

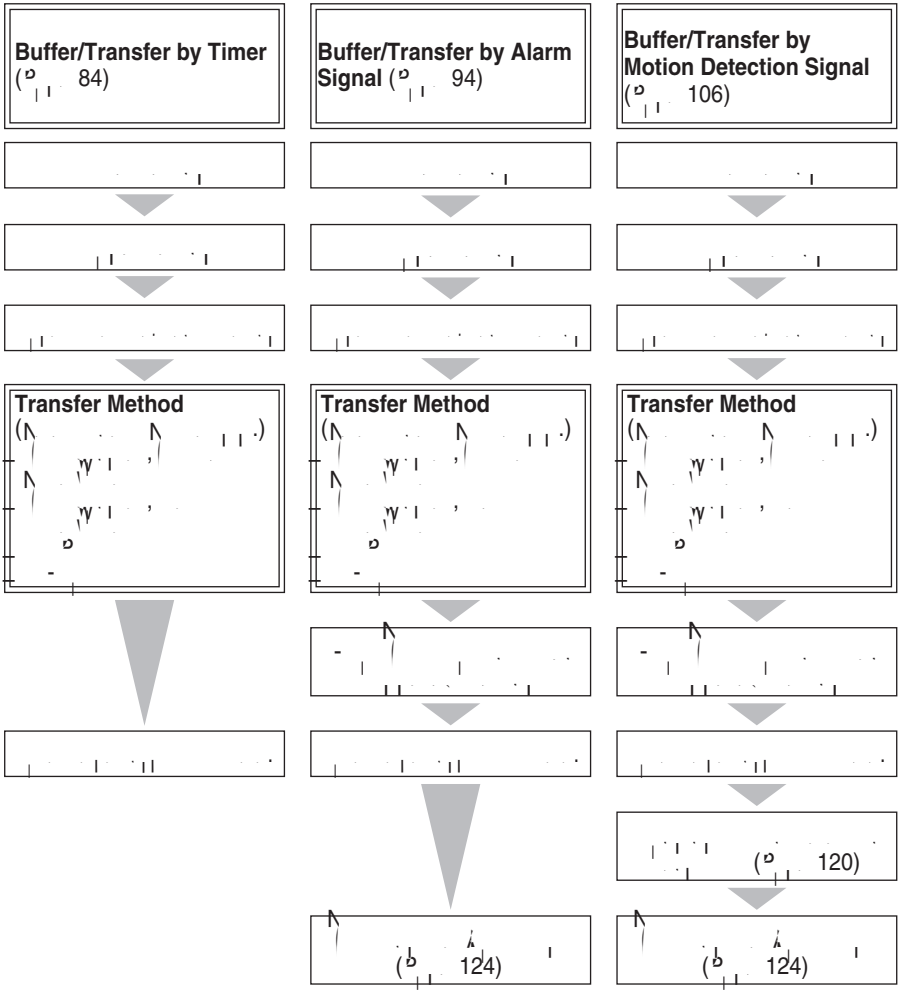
5. [illegible]

– [illegible]

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												
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. > .

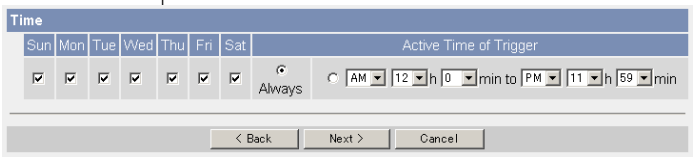
Trigger Setting
☑ Enable Image Buffer/Transfer
Trigger Timer
Delete Buffered Images
Next > Save Cancel

Note

Setting	Description

Setting	Description
[illegible]	[illegible] 1 2 [illegible]

4. [illegible] >.



Note

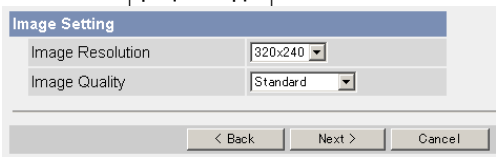
[illegible] (67).

– [illegible]

– [illegible]

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]

5. [illegible] >.

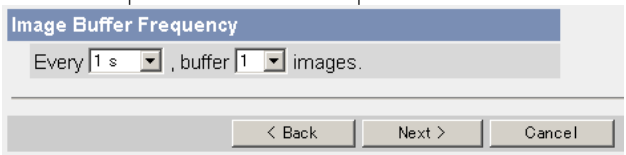


– [illegible]

– [illegible]

Setting	Description
[illegible]	[illegible] (640 480, 320 240 ( ) 160 120) / [illegible]
[illegible]	[illegible] **Note** 640 480 [illegible]

6. [illegible] >.



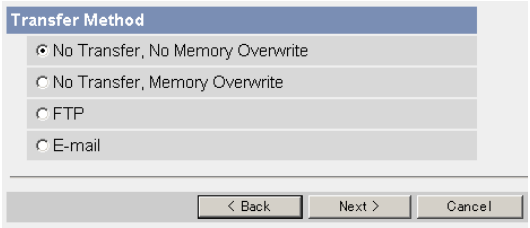
– [illegible] <
– [illegible]

Note

– [illegible]
– 1 , 1 [illegible]

Setting	Description
[illegible]	[illegible] (1 30 [illegible])

7. [illegible] > .



– [illegible] <

– [illegible]

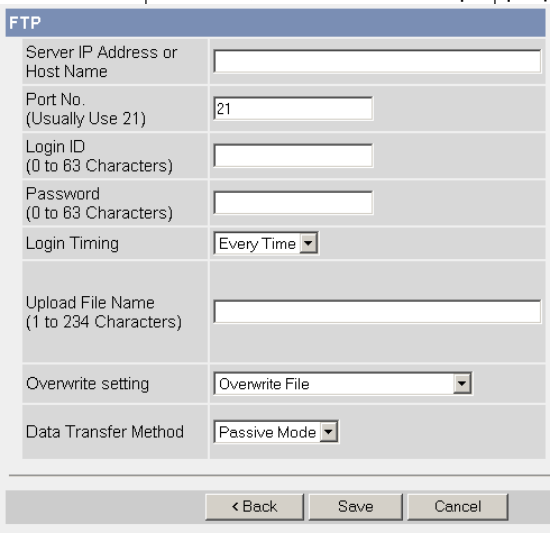
Note

– [illegible] (41 45).

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible] (88).
- [illegible]	[illegible] - [illegible] (90).

When you set [FTP] for Transfer Method

[illegible] > [illegible]



– [illegible] <

– [illegible]

Setting	Description
[illegible] *1	[illegible] 4 [illegible] (0 255) [illegible] 3 [illegible] "192.168.0.253". [illegible] "0.0.0.0" [illegible] "255.255.255.255" [illegible] (1 255 [illegible]). [illegible] 6 [illegible]
[illegible]	[illegible] (1 65535). [illegible] 21.
[illegible] *2	[illegible] (0 63 [illegible]).
[illegible] *2	[illegible] (0 63 [illegible]).
[illegible]	[illegible] 1 [illegible]
[illegible] *1	[illegible] 1 234 [illegible] ([illegible])

Setting	Description
[illegible]	[illegible] 20060101093020500. "9 30 20 500 1, 2006". [illegible]
[illegible]	[illegible]

*1 [illegible] , " , , & , < [illegible] > [illegible]
*2 [illegible] " [illegible]

When you set [E-mail] for Transfer Method

[illegible]

E-mail Transfer	
SMTP Server IP Address or Host Name	
Port No. (Usually Use 25)	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)	
Text (Up to 63 Characters)	
How to authenticate	
◉ No authentication	
○ POP before SMTP authentication	
POP3 Server IP Address or Host Name	
Port No. (Usually Use 110)	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)	

< Back | Save | Cancel

– [illegible]

– [illegible]

Note

– [illegible] ([illegible])

– [illegible] (24- [illegible])

[illegible] :20060101093020500". [illegible] "9 30 20 500 [illegible] 1, 2006". [illegible]

Setting	Description
*1	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255). 6
	(1 65535). 25.
*2	
*2 1 3	(3).
*2	(176) (0 44 1- 0 22 2-).
*2	(176) (0 63 1- 0 31 2-).

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

*1 , " , , & , < > .
*2 " .

8.

- [illegible]
- [illegible]

9.

- [illegible]

Note

- [illegible]
- [illegible]

4.3 Buffering or Transferring Images by Alarm Signal

Note

-
- 151).

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. 1 2 ( ). ( ) >.

Trigger Setting

- [x] Enable Image Buffer/Transfer
- Trigger: Alarm1
- Alarm enable condition: Rising: GND to Open (High).
- Delete Buffered Images

Next > | Save | Cancel

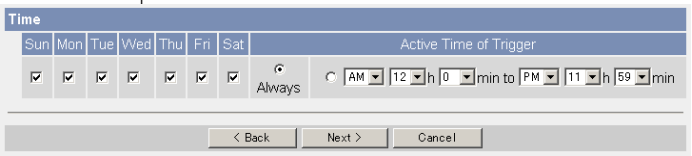
-
-
-

Note

-

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible] 1 2 [illegible]
[illegible]	[illegible] 1 2 [illegible] 1 2 [illegible] 151)

4. [illegible] >.



– [illegible] <

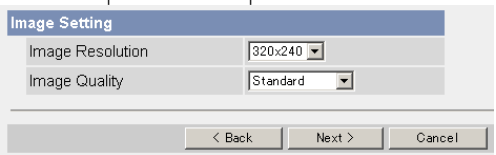
– [illegible]

Note

– [illegible] (67).

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]

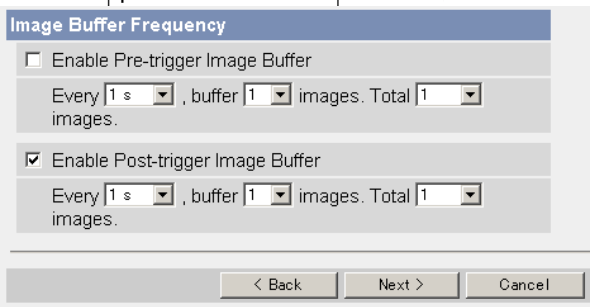
5. [illegible] >.



– [illegible] <
– [illegible]

Setting	Description
[illegible]	[illegible] (640 480, 320 240 ( ) 160 120) [illegible] / [illegible]
[illegible]	[illegible] **Note** 640 480 [illegible]

6. [illegible] >.



– [illegible] <
– [illegible]

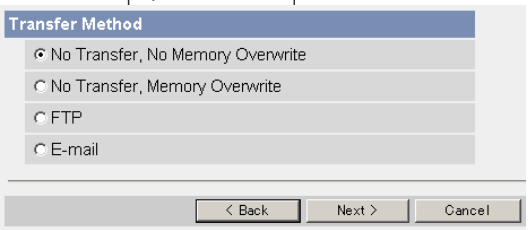
Note

– [illegible]

– [illegible] 1 [illegible] 1 [illegible]

Setting	Description
[illegible]	[illegible] 177) [illegible]
[illegible]	[illegible] 177) [illegible]

7. [illegible] > .



– [illegible] <

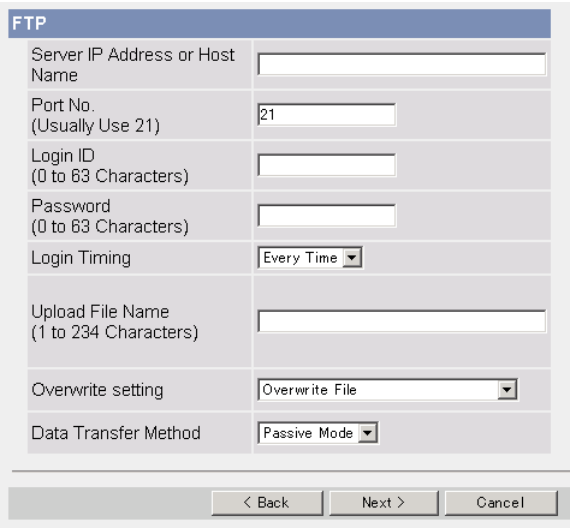
– [illegible]

Note

– [illegible] 41 [illegible] 45).

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible] (99).
[illegible]	[illegible] (101).

When you set [FTP] for Transfer Method

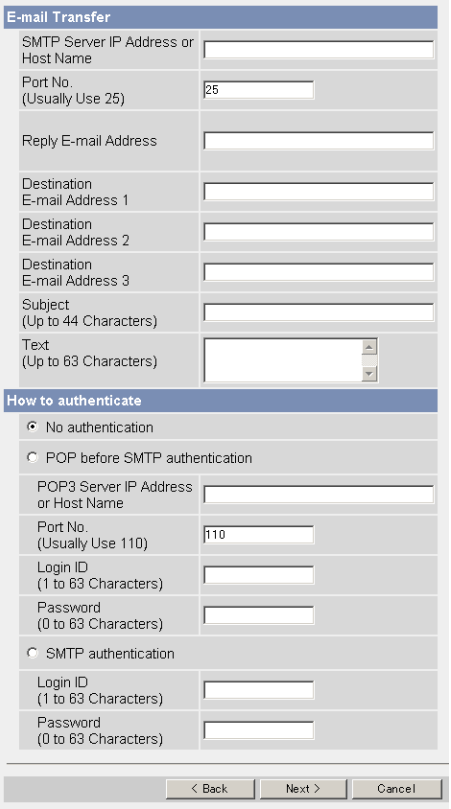


Setting	Description
*1	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255). 6
	(1 65535). 21.
*2	(0 63).
*2	(0 63).
	1
*1	1 234 ( )

Setting	Description
[illegible]	[illegible] 20060101093020500. [illegible] 9 30 20 500 [illegible] 1, 2006 . [illegible]
[illegible]	[illegible]

*1 [illegible] , " , , & , < [illegible] > [illegible]
*2 [illegible] " [illegible]

When you set [E-mail] for Transfer Method



E-mail Transfer

SMTP Server IP Address or Host Name	
Port No. (Usually Use 25)	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)	
Text (Up to 63 Characters)	

How to authenticate

● No authentication

○ POP before SMTP authentication

POP3 Server IP Address or Host Name	
Port No. (Usually Use 110)	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)	

Note

- (24-)

  :20060101093020500".

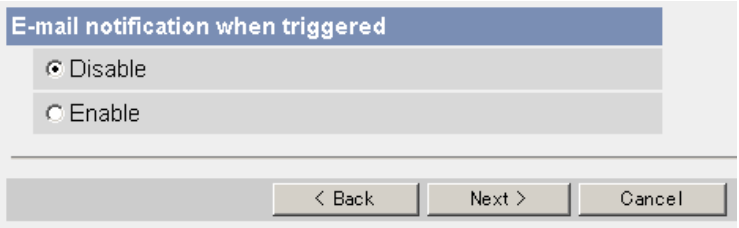
  "9 30 . 20 500 1, 2006".

Setting	Description
*1	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255). 6
	(1 65535). 25.
*2	
*2 1 3	(3).
*2	(176) (0 44 1- 0 22 2-).
*2	(176) (0 63 1- 0 31 2-).

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

*1 , " , , & , < > .
*2 " .

8. [illegible]



– [illegible] 102 103.

Setting	Description
[illegible]	– [illegible]
[illegible]	– [illegible] (3 [illegible]) [illegible]

9. [illegible]

– [illegible]

– [illegible]

Note

– [illegible]

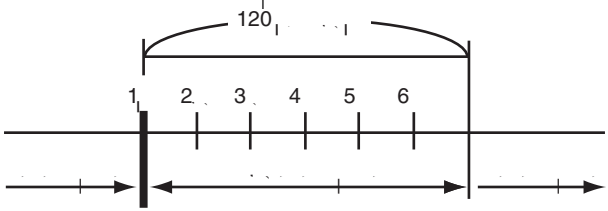
10. [illegible]

– [illegible]

Note

– [illegible] 1 [illegible]

– [illegible] 3 [illegible] 6 [illegible]



[illegible]

4.4 Buffering or Transferring Images by Motion Detection Signal

Note

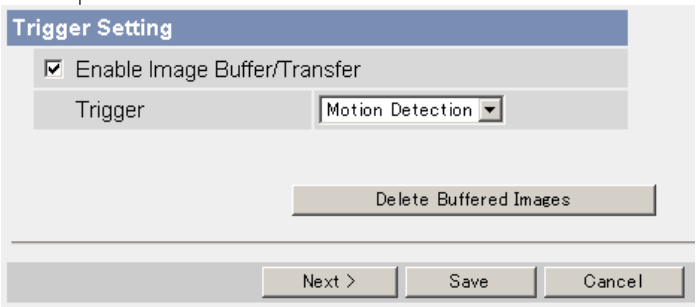
– 120).

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. >.



–

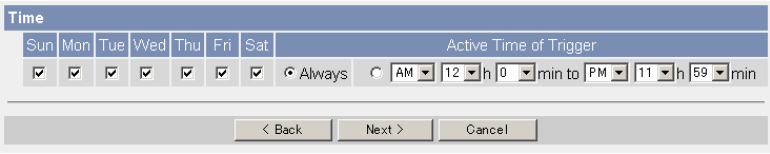
–
–

Note

–

Setting	Description
	–
	– 1 2 / –

4. >.



–
–

Note

– (67).

Setting	Description
	–
	–

5. [illegible] > .

– [illegible] <[illegible]

– [illegible]

Setting	Description
[illegible] – [illegible]	(640 480, 320 240

6. [illegible] > .

– [illegible] <[illegible]

– [illegible]

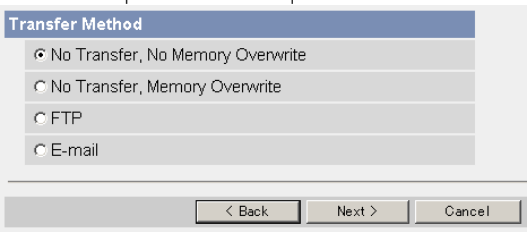
Note

–

–

Setting	Description
	– – (177)
	– – (177)

7. >.



–

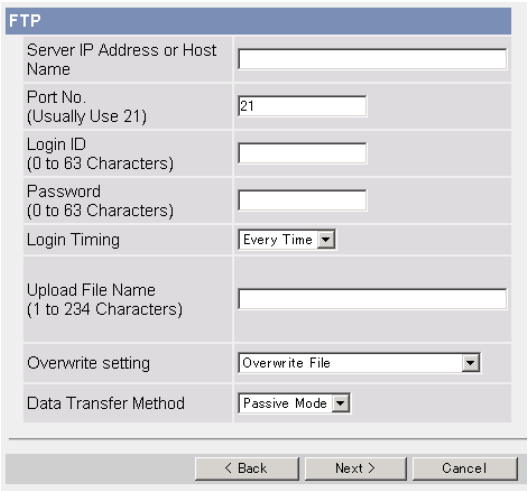
–

Note

– (41 45).

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible] 111).
[illegible]	[illegible] 113).

When you set [FTP] for Transfer Method



Setting	Description
*1	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255). 6
	(1 65535). 21.
*2	(0 63).
*2	(0 63).
	1
*1	1 234 ( )

20060101093020500

When you set [E-mail] for Transfer Method

[illegible]

E-mail Transfer	
SMTP Server IP Address or Host Name	
Port No. (Usually Use 25)	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)	
Text (Up to 63 Characters)	
How to authenticate	
◉ No authentication	
○ POP before SMTP authentication	
POP3 Server IP Address or Host Name	
Port No. (Usually Use 110)	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)	

< Back | Next > | Cancel

– [illegible]

– [illegible]

Note

– [illegible] ([illegible])

– [illegible] (24- [illegible]) [illegible] :

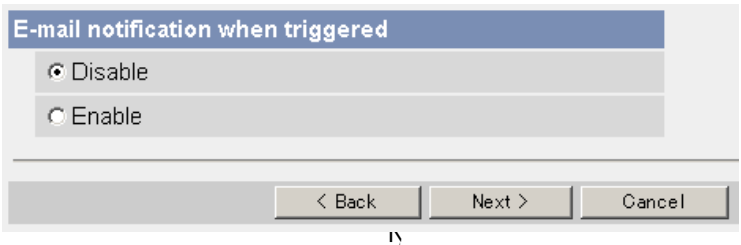
" [illegible] :20060101093020500". [illegible] "9 30 20 500 [illegible] 1, 2006".

Setting	Description
*1	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255). 6
	(1 65535). 25.
*2	
*2 1 3	(3).
*2	(176) (0 44 1- 0 22 2-).
*2	(176) (0 63 1- 0 31 2-).

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

*1 , " , , & , < > .
*2 " .

8.



114, 115.

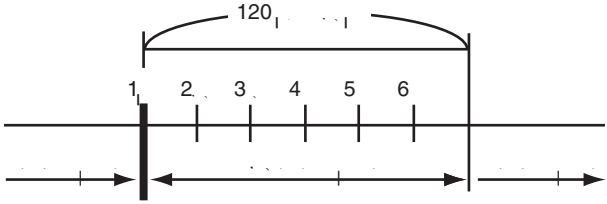
Setting	Description
	(3)

9.

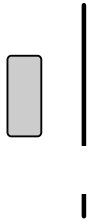
Note

10.

Note



4.5 Transferring Camera Images in Transport Mode

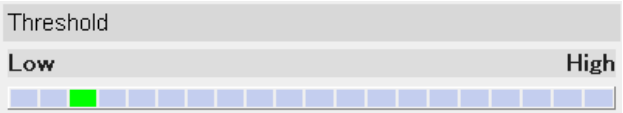


Item	Supported Feature
[illegible]	[illegible]
[illegible]	[illegible]

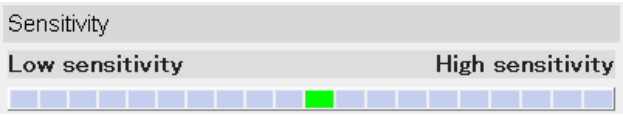
50 [illegible]

4.7 Setting the Motion Detection

1.
2.



3.

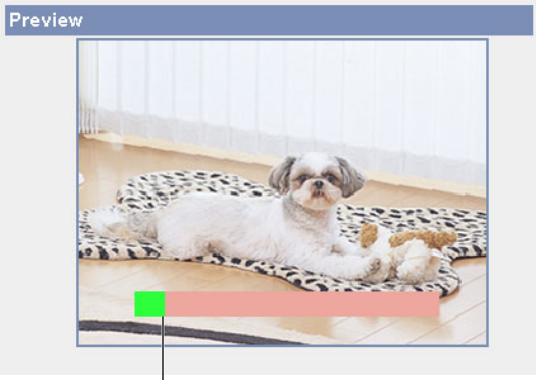


4.
5.

Setting	Description

Note

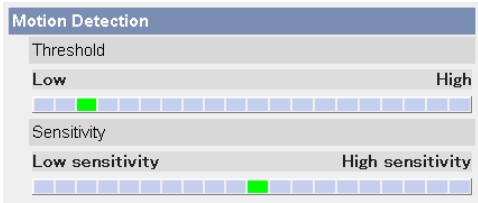
Preview

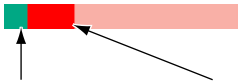


Note

What is “threshold”?

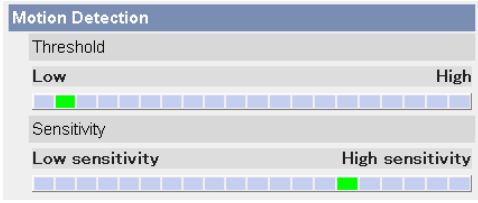
What is “sensitivity”?





Note

–



Note

–

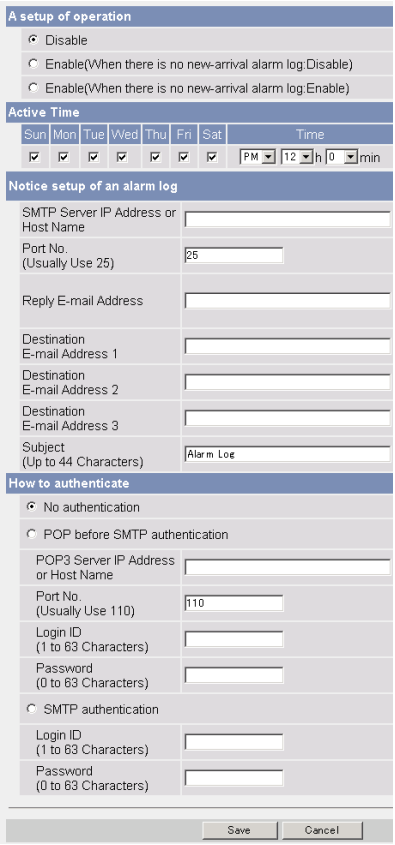
4.8 Setting Alarm Log Notification

1, 2

1.

– 1, 2

2.



3.

–

4.

Note

- 0.
- ( )

Setting	Description
*1	4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255). 6
	(1 65535). 25.
*2	
*2 1 3	(3).
*2	(176) (0 44 1- 0 22 2-).

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

*1 , " , , & , < > .
*2 " .

4.9 Using the SD Memory Card

(-)

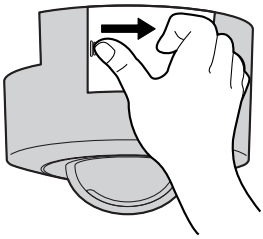
Note

– (129)

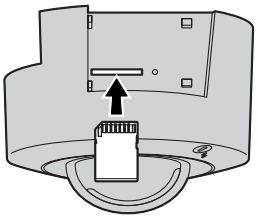
– http://panasonic.co.jp/pcc/products/en/netwkcam/

1.

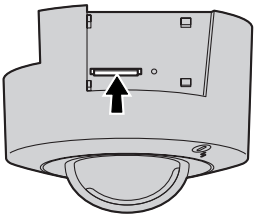
2.



3.



4.



Note

- [illegible]
- [illegible]

5. [illegible]
6. [illegible]

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.

Format | SD video recording stop

4.

5.

4.9.2 Start the SD Memory Recording

Note

- [illegible]
- [illegible]
- [illegible]

1. [illegible]

2. [illegible]

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.

Format | SD video recording start

3. [illegible]

- [illegible]

4. [illegible]

- [illegible]

Note

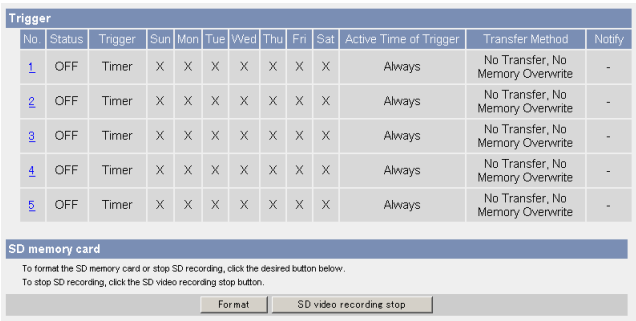
- [illegible]

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.

Format | SD video recording stop

3.

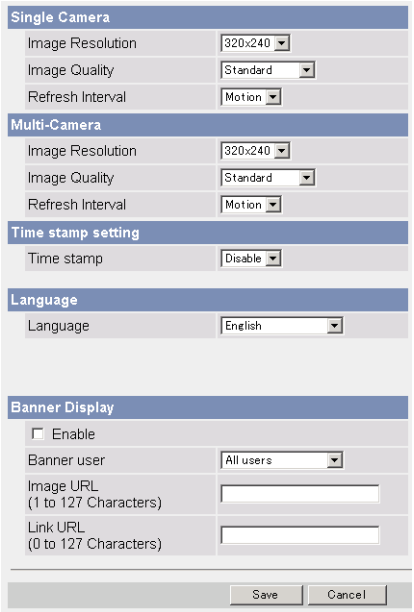
4.

Note

5 Using Other Features

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

1.
2.



–

Setting	Description
[illegible]	[illegible] 640 480 ([illegible]) 320 240 ([illegible]) 160 120 ([illegible])
[illegible]	[illegible] ([illegible]) [illegible]
[illegible]	[illegible] ([illegible]), 3 , 5 , 10 , 30 , [illegible] 60
[illegible]	[illegible] ([illegible]). **Note** – [illegible] – [illegible] 24 [illegible]
[illegible]	[illegible]
[illegible]	[illegible] **Note** – [illegible] – [illegible]

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

*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	--	********
Add				

Note

–

–

Change Camera Order

From No. 1 To No. 1 Move

3.

Add Camera

Display	☑ On
IP Address or Host Name	
Port No. (1 to 65535)	
Camera Name (1 to 15 characters)	
Clicking this link, enters this camera's settings.	

Save Cancel

–

–

Setting	Description
[illegible]	[illegible]
[illegible] *1 [illegible] *2	[illegible]
[illegible]	[illegible] (1 65535).
[illegible] *3 [illegible]	[illegible]

*1 [illegible] 4, 4 [illegible] (0 255) [illegible] 3 [illegible] "192.168.0.253". [illegible] "0.0.0.0" [illegible] "255.255.255.255" [illegible]
[illegible] 6, [illegible]

*2 [illegible] ([illegible] 176). [illegible] , " , , # , & , % , = , + , [illegible] , < [illegible] > [illegible]
[illegible] 1 255 [illegible]

*3 [illegible] ([illegible] 176) [illegible] (1 15 [illegible] 1- [illegible] 1 7 [illegible] 2- [illegible]). [illegible] , " , , # , & , % , = , + , [illegible] , : , < , [illegible] > [illegible]

Note

– [illegible]

– [illegible] ([illegible])

4. [illegible]

– [illegible]

– [illegible]

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

– 1 7

3.

Operation Time

Enable	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Operation Time
☐	☑	☑	☑	☑	☑	☑	☑	◉ Always ○ AM 12 h 0 min to AM 12 h 0 min

Save Cancel

–

Setting	Description
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

4. [illegible]

- [illegible]
- [illegible]

About Operation Time

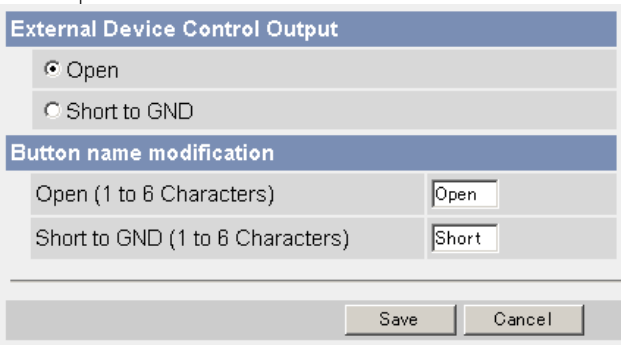
[illegible]

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.

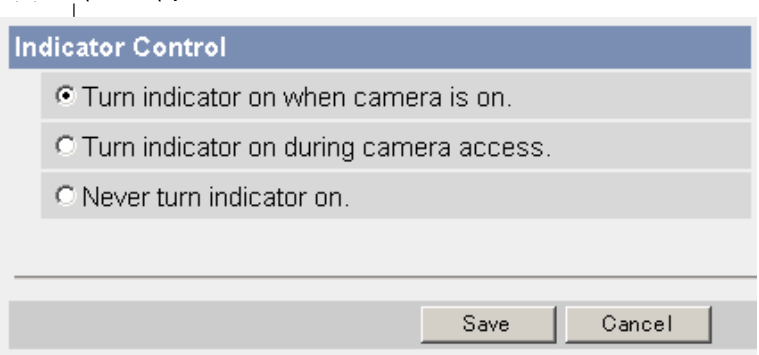


Setting	Description

3.

5.5 Changing the Indicator Display

1.
2.



8).

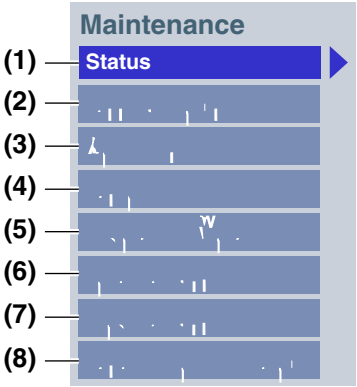
Note

3.

4.

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/netwkcam/

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.

		User

6.1.3 Confirming Alarm Logs

50

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.

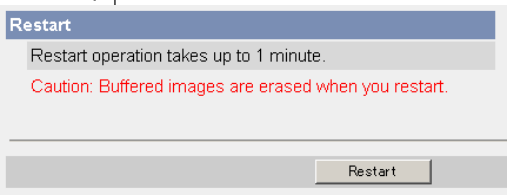
6.1.4 Restarting the Camera

Note

– [illegible]

– [illegible]

1. [illegible]
2. [illegible]



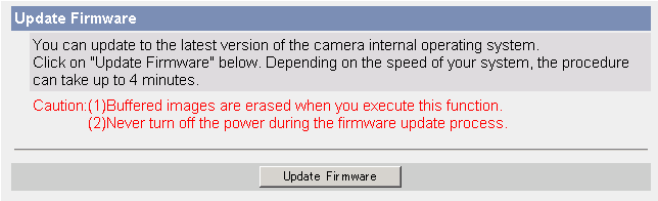
– [illegible] 1 [illegible]

6.1.5 Updating the Camera Firmware

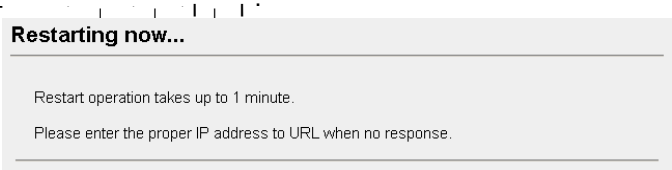
Note

-
-
-
-

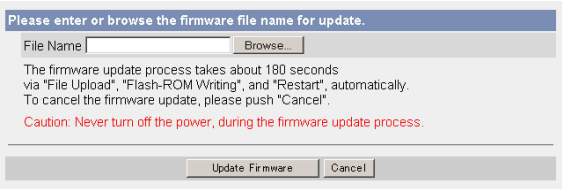
1. http://panasonic.co.jp/pcc/products/en/netwkcam/,
2.
3.



-



- 1



4. [illegible]

– [illegible]

5. [illegible]

– [illegible]

6. [illegible]

– [illegible]

– [illegible]

Updating firmware.

Please wait about 160 seconds.

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

– [illegible]

Restarting now...

Restart operation takes up to 1 minute.

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

– [illegible] 1 [illegible]

7. [illegible]

– [illegible]

6.1.6 Creating the Configuration File

(148).

Note

–

1.
2.

3.
4.

–

Note

–

–

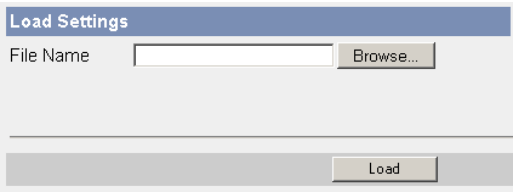
6.1.7 Loading Settings from a Configuration File

Note

–

–

1.
2.



3.

–

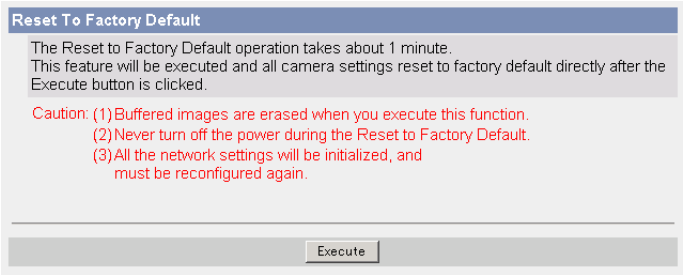
4.
5.

–

6.1.8 Resetting the Camera to Factory Default

1.

2.



– 10

– (.)

–

Note

– 24- 67.

– 166 175

– (153).

–

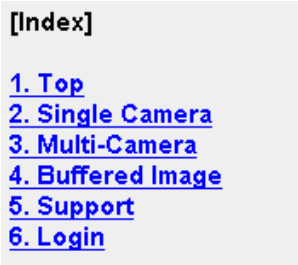
– 1

6.2 Support page

Support		
(1)	Help	[illegible] (☞).
(2)	Product Information	[illegible] ☞ [illegible] (☞).
(3)	Support Information	[illegible] ☞ [illegible] (☞).

6.2.1 The Help page

[illegible] ☞ [illegible] ☞ [illegible]



6.2.2 Product Information

[illegible] ☞ [illegible] ☞ [illegible]

Note

– [illegible] ☞ [illegible]

6.2.3 Support Information

[illegible] ☞ [illegible] ☞ [illegible]

Note

– [illegible] ☞ [illegible]

6.3 External I/O

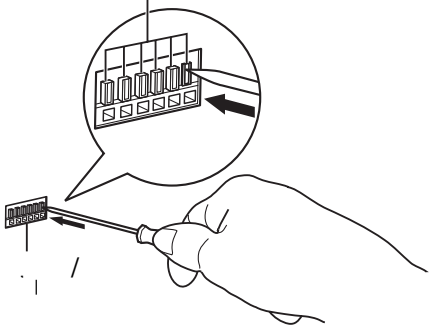
Explanation of the External I/O

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

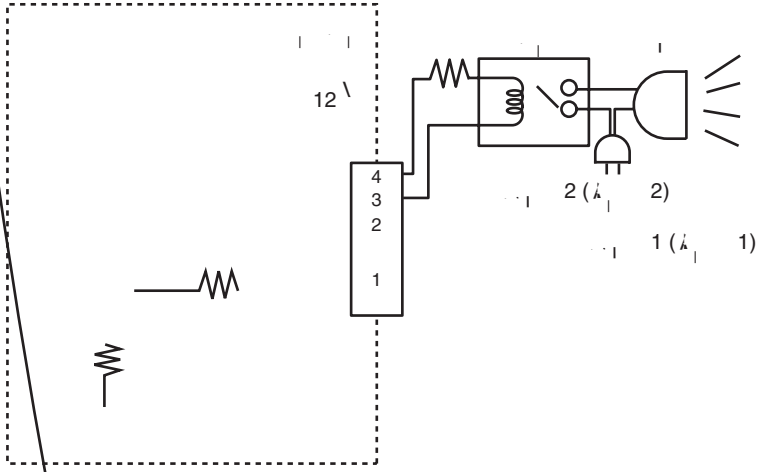
Note

– 139.

–



Circuit Diagram Example

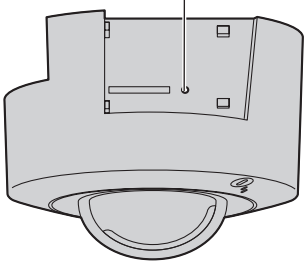


CAUTION

- **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



– 1

– 5

Note

– 24- 67.

– 166

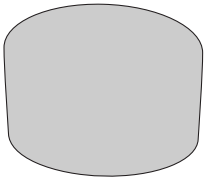
–

–

– 1

7.2 Cleaning

[illegible] (10), [illegible]



Note

- [illegible]
- [illegible]

7.3 Setting an IP Address on Your PC

1.

OS	Steps
2000	
98	

2.

3.

Local IP Address

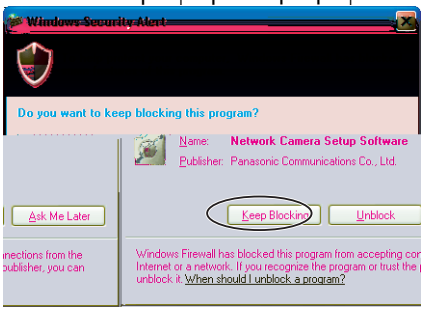
Class	Subnet Mask	Local IP Address	
	255. 0. 0. 0	10. 0. 0. 1	10. 255. 255. 254
	255. 255. 0. 0	172. 16. 0. 1	172. 31. 255. 254
	255. 255. 255. 0	192. 168. 0. 1	192. 168. 0. 254

7.4 Using Setup Program

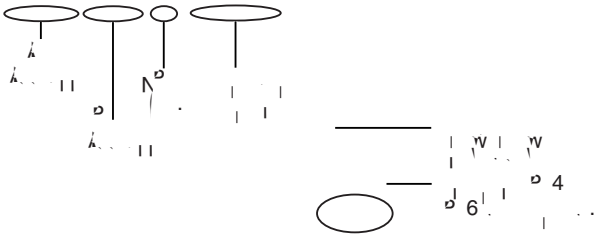
Finding the camera

1.

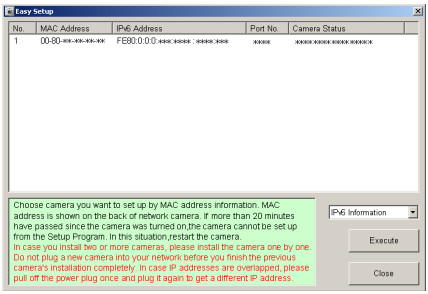
2.



IPv4 Information



IPv6 Information



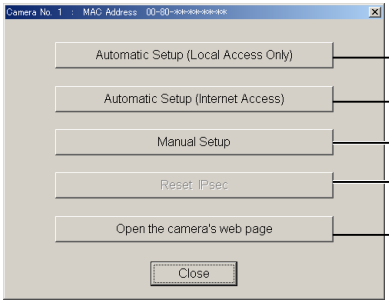
Note

159

Automatic Setup (Local or Internet Access) or Manual Setup

1. 157.

2.



35).

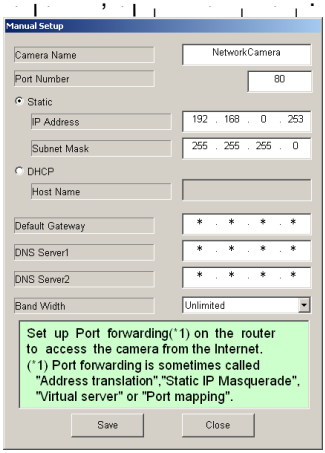
Note

–

Manual Setup window

40 42.

– 20



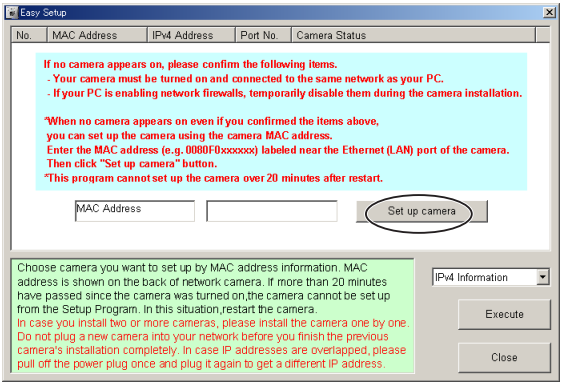
3.

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

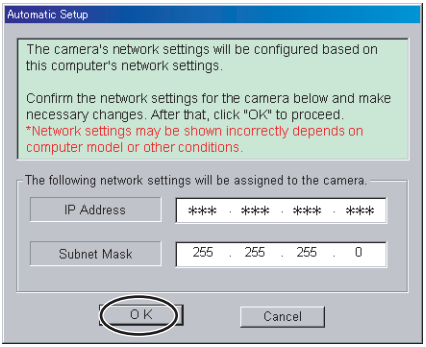
1.

Note

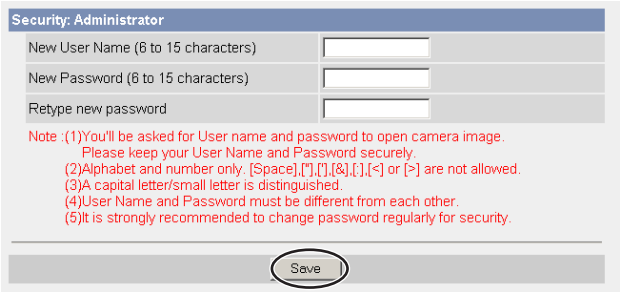
9).



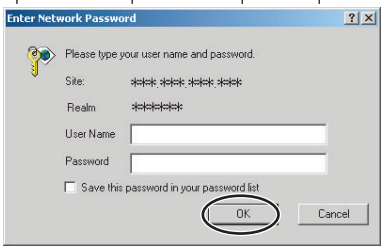
2.



3. [illegible]



4. [illegible]



5. [illegible]

– [illegible] (17).

– [illegible] 18 [illegible] 2.

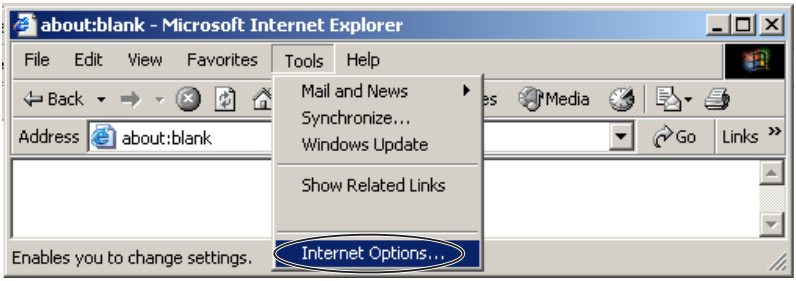
7.5 Setting Your PC

7.5.1 Setting Proxy Server Settings on a Web Browser

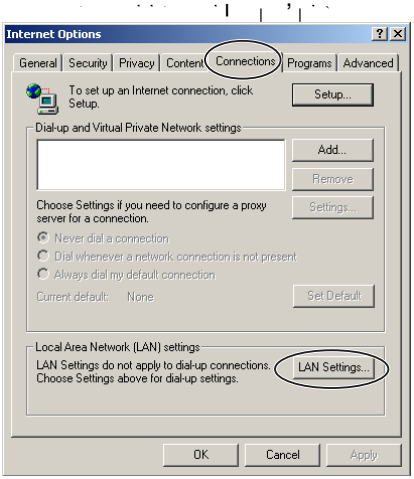
Note

How to Set Proxy Server Settings

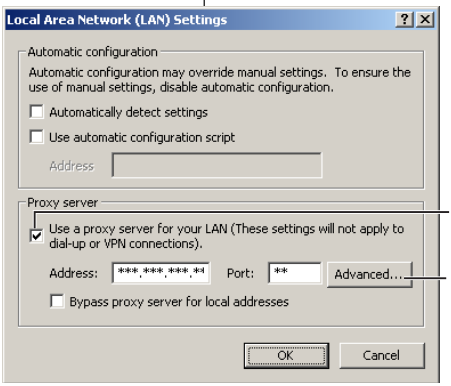
1. . (6.0.)
2. → ...



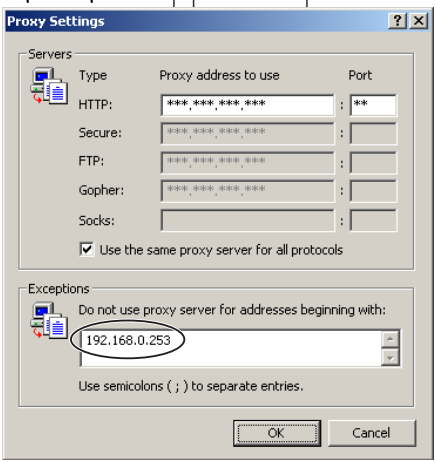
3.



4.



5. [illegible] . (: 192.168.0.253)



6. [illegible]

Note

– [illegible]

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

OS	Steps
2	

Note

–

7.5.3 Setting the Internet Temporary File Setting on the Web Browser

7.6 Default Setting List

Basic

Items		Default	Required	Note
(4)			-	
	( )		-	-
	(/)		-	-
	(/)	80	-	20, 21, 25 110 *2
	( )	192.168.0. 253		*1
	( )	255.255. 255.0		*1
	( )		)	0 63 *4
	(/)			*1
	1 2 (/)			*1
	( )		-	0.1, 0.2, 0.3, 0.5, 1
			-	100 100 10 10

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

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

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

Account

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

Buffer/Transfer

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

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

Advanced

Items		Default	Required	Note
		320 240	-	320 240 640 480
			-	
			-	3, 5, 10, 30, 60 ( )
	-	320 240	-	160 120 320 240
	-		-	
	-			3, 5, 10, 30, 60 ( )
			-	
			-	
				-
			-	
			-	0 127 *4
			-	1 127 *4

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

7.7 ASCII Character Table

ASCII Character Table					
( )	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

*1

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 : 02
- 1 : 01
- 512 : 512
- 256 : 256
- 128 : 128
- 64 : 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
[illegible]	: 0 +65
[illegible]	1/4- ( ), 320,000 ( )
[illegible]	3 100,000 (0.2 100,000)
[illegible]	/ /
[illegible]	0.5 (20)
(.)	3.5
[illegible]	53
[illegible]	40
[illegible]	

Other Specifications

Items	Specifications
[illegible]	(3)
[illegible]	640 480, 320 240 ( ), 160 120
*1	125 (320 240) (.)
[illegible]	2
[illegible]	32
[illegible]	300 3.4
[illegible]	
[illegible]	
[illegible]	-
*2	
*3	. 12 / (640 480) . 30 / (320 240 160 120)

Items	Specifications
Supported Protocols	IPv4/IPv6 Dual-Stack • 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 (5)

Index

A

4
17
/ /
78
/ 94
124, 143
176
73

B

29

C

11
70
22
32, 34
154
20

D

67
166
60, 65

E

/ 151
/ 9, 151
139

F

153

G

80

H

150
9

I

132
140
47
6 13

L

8, 154
25
148
79

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
4
U
145
57
62
V
60
Z
19

For product service

- [illegible]
- 1-800-272-7033
- [illegible]

When you ship the product

- [illegible]
- [illegible]

_____

_____

- [illegible]
- [illegible]

[illegible]

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Puerto Rico, Inc.
San Gabriel Industrial Park, Ave. 65 de Infantería, Km. 9.5,
Carolina, Puerto Rico 00985

PQQX15560ZA [illegible] 0606 0