# Network

DDNS

DDNS is a system which allows the domain name data held in a name server to be updated in real time. The most common use for DDNS is allowing an internet domain name to be assigned to a computer with a varying / dynamic IP Address. This makes it possible for other sites on the internet to establish connection to the machine without needing to track the IP Address themselves.
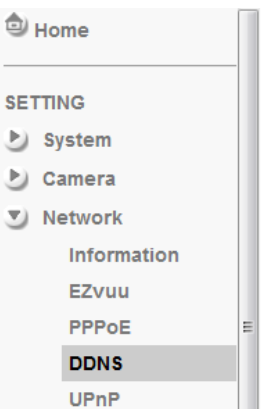
Server name
Choose the DDNS Server from the list.

User ID
Enter the user ID for authentication necessary for DDNS connections. Type it up to 64 characters.

Password
Enter the password for authentication necessary for DDNS connections. Type it up to 32 characters.

Re-type password
Re-type the password to confirm.

Host name
Enter the host name that is registered to the DDNS server.
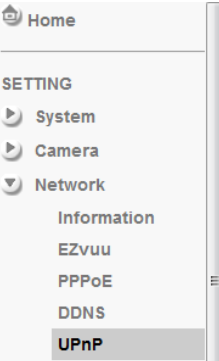
Network
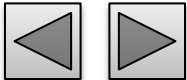
UPnP

You can select UPnP function "On" or "Off". If a ROUTER is used to access to internet and it supports UPnP IGD function, please turn on the UPnP Port Forwarding function.

HTTP port

The default HTTP port is 80. Or the port number can be entered, ranged from 1024 to 65535.

SSL port

The default SSL port is 443. Or the port number can be entered, ranged from 1024 to 65535.

MPEG4 RTSP port

The default MPEG-4 RTSP Port is 554. Or the port number can be entered, ranged from 1024 to 65535.
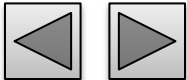
Network

IP Notification

When network notify type is set to "ON", you can send an e-mail notification of the completion of the network setting.

IP Notification

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IP Notification

☐ IP Notification ◉ On ○ Off

Notify type	☑ DHCP ☑ Static IP ☑ PPPoE
SMTP server name	
SMTP server port	25 (1 ~ 65535) ☑ SSL
Authentication	◉ On ○ Off
	☑ SMTP ☑ POP before SMTP
POP server name	
User name	
Password	
Recipient e-Mail address	
Administrator e-Mail address	
Subject	IP Notify
Message	Product Name : <product> Web Version : <vweb> APP Version : <vfirm> http://<ip>:<port> MAC Address : <mac> Help

OK   Cancel   Test

Notify Type
Select the notify type

SMTP Server Name
Type the SMTP server name or the IP address

SMTP Server Port
Set port number of your mail server. The default value is 25. Tick SSL box if the mail server you use has security restriction.

Authentication
Required when you send an email.

SMTP
Select if SMTP authentication is necessary when an e-mail is sent.

POP before SMTP
Select if POP before SMTP authentication is necessary when an e-mail is sent.

POP server name
Type the POP server name of the user.

User name, Password
Type the user name and Password of the user.

Recipient e-mail address
Type up to 3 recipient e-Mail addresses.

Administrator e-mail address
This address is used for reply mail and sending system messages from the SMTP server.

Subject
Type the subject/title of the e-Mail.

Message
Type the text of the E-mail. Default provides network information including IP, Port, MAC, Model, Firmware Version and Web Version.

Note

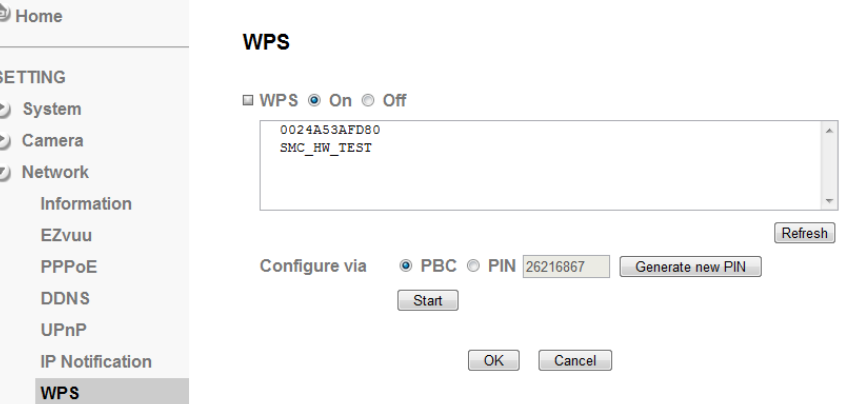If you use g-mail as your mail server, you should set 587 as your port number and tick SSL box.

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Network

WPS

WPS (Wi-Fi Protected Setup) also known as a standard for easy and secure establishment of a wireless home network.

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WPS

☐ WPS ◉ On ○ Off

```
0024A53AFD80
SMC_HW_TEST
```

Refresh

Configure via ◉ PBC ○ PIN 26216867 Generate new PIN

Start

OK   Cancel

WPS
Enable/disable the WPS function.
Configure via Push button
Click "Start"
Configure via Pin code
password for this msn account.
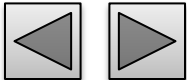
Network
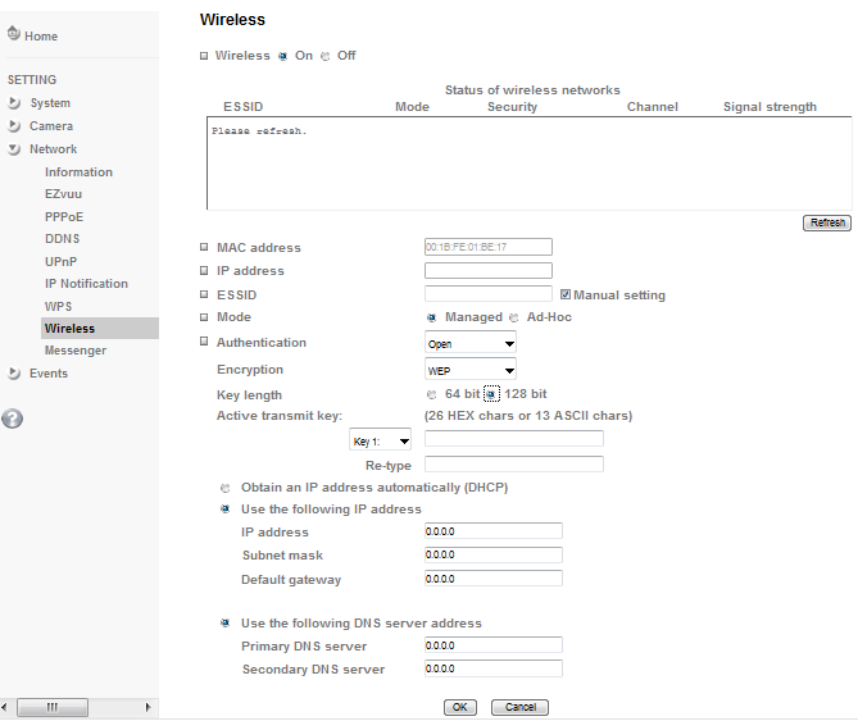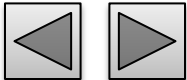
Wireless

The wireless network has to be set up by using cable network connection. After setting the camera correctly, the wireless function can work without cable network connection. Please follow the setting process below step by step:

1. **See the wireless setting page. Then click "Refresh". All access points (AP) around you will show up.**
2. **Select the AP you wish to connect.**

3. **Enter password at active transmit key if you need. If you don't know the setting of the wireless AP, please ask your network administrator.**
4. **Choose the option of Obtain an IP address automatically (DHCP).**
5. **Choose the option of Obtain DNS server address automatically.**

Use the following IP address
Select this when the fixed IP address is set.
IP address: Enter the IP address of the device.
Subnet mask: Enter the subnet mask.
Default gateway: Enter the default gateway.
Use the following DNS server address
Select this when you set the fixed address as the IP address of DNS server.
Primary DNS server: Enter the IP address of the primary DNS server.
Secondary DNS server: Enter the IP address of the secondary DNS server, if necessary.

6. **Connect to the IP camera with wireless IP address, then you can remove the Ethernet connection.**
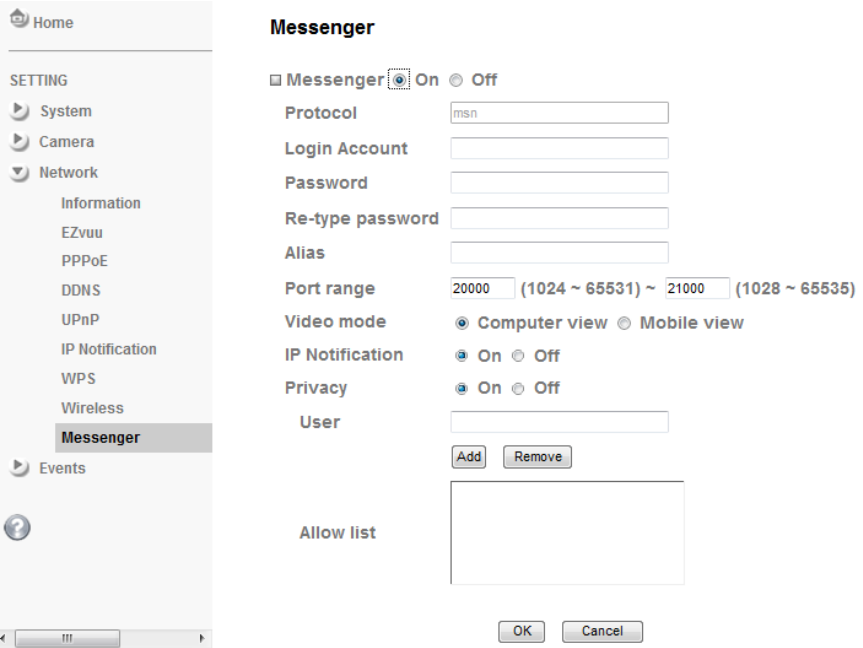
Messenger

If Messenger option is selected On, you can set out the setting of MSN account. Messenger function provide an easy-connect feature. User can easy to know what camera's private and public IP address is.

Protocol
support MSN only.

Login Account
Camera will use this account to login MSN server.

Password
password for this msn account.

Re-type password
re-type password to double confirm.

Alias
This alias will display on MSN nickname.

Port range
Select one port range for video transmission.

IP Notification
Switch the IP notification On / Off. **If this feature switches On**, camera will send IP notification to the users who are allowed.

Privacy
Switch privacy On / Off. **When privacy turns on**, only those users in allowed list can access the camera.

User
Input to this blank to edit allow list.

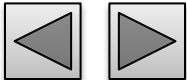**Allow list**
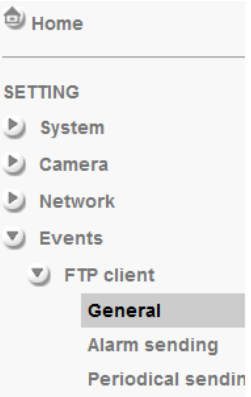When privacy turns on, only those users in allow list can access the camera.

Events

FTP Client – general

Use this menu to set up for capturing and sending images to an FTP server. By using FTP client function, you can send the **image file** which has been shot and recorded linked with the built-in motion detection function to FTP server. FTP client setting menu is composed of two tabs, **General**, **Alarm sending** and **Periodical sending**.

FTP server name
Type the FTP server name to upload still images up to 64 characters, or the IP address of the FTP server.

User name
Type the user name for the FTP server.

Password
Type the password for the FTP server.

Retype password
To confirm the password, type the same characters as you typed in the Password box.

Passive mode
Set whether you use the passive mode of FTP server or not when connecting to FTP server. Select **On** to connect to FTP server using the passive mode.
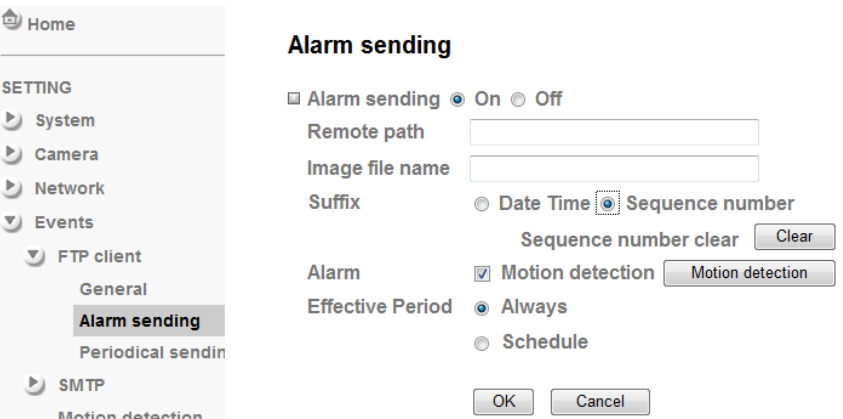
| Note |

The frame rate and operability on the main viewer may decrease while a file is being transmitted by the FTP client function.

Events
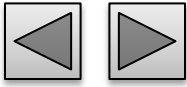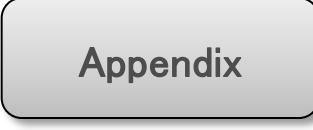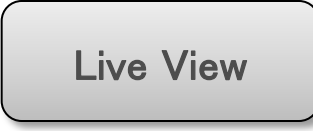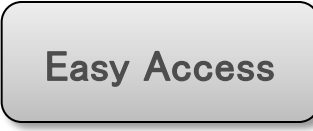
FTP Client – alarm sending

Set to forward th**e image file** to the specified FTP server linked with the alarm detection by the built-in motion detection function. Select **On** to send the image file to FTP server linked with the alarm detection.

Alarm sending

☐ Alarm sending ⦿ On ⦾ Off
Remote path [   ]
Image file name [   ]
Suffix   ⦾ Date Time ⦿ Sequence number
          Sequence number clear [Clear]
Alarm   ☑ Motion detection [Motion detection]
Effective Period ⦿ Always
          ⦾ Schedule

[OK] [Cancel]

Remote Path
Type the path to the destination in FTP.

Image File Name
Type the file name you want to assign to the images when sending to the FTP server.

Note

1. You can set motion detection at motion detection page.
2. You can set schedule function at schedule page.

Suffix
Select a suffix to add to the file name.
Date & time
The date & time suffix is added to the Image file name.
Sequence number
The sequence number is added to the Image file name.
Sequence number clear
Click **Clear** and the suffix of the sequence number returns to 1.

Alarm
Motion Detection
Click it on for using **Motion Detection** function as a sensor.

Effective period
Set the period when the periodical sending is effective.
Always
The periodical sending is always effective.
Schedule
You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Events

FTP Client – periodical sending

You can set to send an image file to FTP server periodically by selecting **On** to send the image file to FTP server linked with setting period.

Remote Path

Type the path to the destination in FTP.

Image File Name

Type the file name you want to assign to the images when sending to the FTP server.

> **Note**
>
> You can set schedule function at schedule page.

Suffix

Select a suffix to be added to the file name sent by SMTP.

None

The name of the sent file will be the Image file name.

Date & time

The date & time suffix is added to the Image file name.

Sequence number

The sequence number is added to the Image file name.

Sequence number clear

Click **Clear** and the suffix of the sequence number returns to 1.

Interval

Set the periodical sending is effective interval.

Effective period

Set the period when the periodical sending is effective.

Always

The periodical sending is always effective.

Schedule

You can specify the period when the periodical sending is effective in the Schedule setting in the other section.
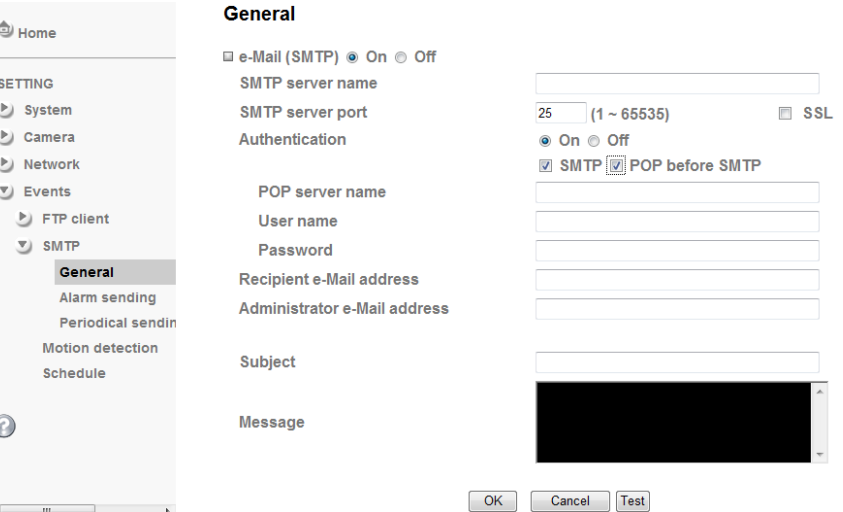
Events

SMTP – general

You can send a mail with attached **image file** which shot by external sensor input and motion detections or shot periodically.

SMTP Server Name
Type the SMTP server name or the IP address

SMTP Server Port
Set port number of your mail server. The default value is 25. Tick SSL box if the mail server you use has security restriction.

Authentication
Required when you send an email.

SMTP
Select if SMTP authentication is necessary when an e-mail is sent.

POP before SMTP
Select if POP before SMTP authentication is necessary when an e-mail is sent.

POP server name
Type the POP server name of the user.

User name, Password
Type the user name and Password of the user.

Recipient e-mail address
Type up to 3 recipient e-Mail addresses.

Administrator e-mail address
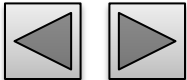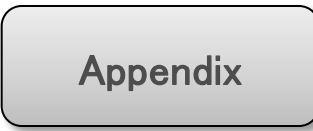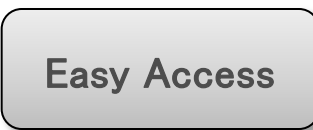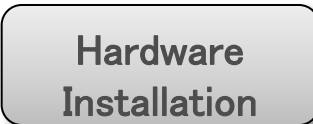This address is used for reply mail and sending system messages from the SMTP server.

Subject
Type the subject/title of the e-Mail.

Message
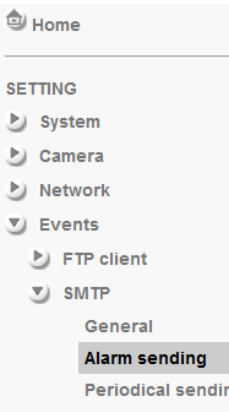Type the text of the E-mail.

Note

If you use g-mail as your mail server, you should set 587 as your port number and tick SSL box.

Events

SMTP – alarm sending

Set to send the mail with connection to the alarm detection by the built-in motion detection function. Select On to send the image file to SMTP server linked with the alarm detection.

Alarm sending

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    - Periodical sendin
    - Motion detection

☐ Alarm sending ⦿ On ○ Off
File attachment ⦿ On ○ Off
Image file name [_____]
Suffix ○ None ○ Date Time ⦿ Sequence number
Sequence number clear [Clear]
Alarm ☑ Motion detection [Motion detection]
Effective Period ○ Always
⦿ Schedule [Schedule]

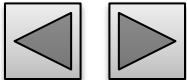[OK] [Cancel]

File attachment

Set whether an image file is attached to the mail sent or not.

Image File Name

Type the file name you want to assign to the images when sending to the FTP server.

[Note]

1. You can set motion detection at motion detection page.
2. You can set schedule function at schedule page.

Suffix

Select a suffix to add to the file name.

Date & time

The date & time suffix is added to the Image file name.

Sequence number

The sequence number is added to the Image file name.

Sequence number clear

Click **Clear** and the suffix of the sequence number returns to 1.

Alarm

Motion Detection

Click it on for using **Motion Detection** function as a sensor.

Effective period

Set the period when the periodical sending is effective.

Always

The periodical sending is always effective.

Schedule

You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

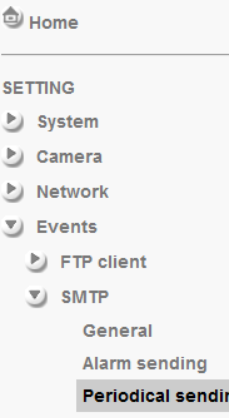# Events

SMTP – periodical sending

You can set to send an image file by SMTP server periodically by selecting **On** to send the image file by SMTP server linked with setting period.

Periodical sending

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Periodical sending ⦿ On ○ Off
Image file name [   ]
Suffix   ○ None ○ Date Time ⦿ Sequence number
                    Sequence number clear [Clear]
Interval   [00] H [30] M
            (MIN : 30min. MAX : 24-hour interval)
Effective Period ○ Always
                  ⦿ Schedule   [Schedule]

[OK] [Cancel]

Image file name
Type the file name of the image sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).

[Note]
You can set schedule function at schedule page.

Suffix
Select a suffix to be added to the file name sent by SMTP.

None
The name of the sent file will be the Image file name.

Date & time
The date & time suffix is added to the Image file name.

Sequence number
The sequence number is added to the Image file name.

Sequence number clear
Click **Clear** and the suffix of the sequence number returns to 1.

Interval
Set the periodical sending is effective interval.

Effective period
Set the period when the periodical sending is effective.

Always
The periodical sending is always effective.

Schedule
You can specify the period when the periodical sending is effective in the Schedule setting in the other section.
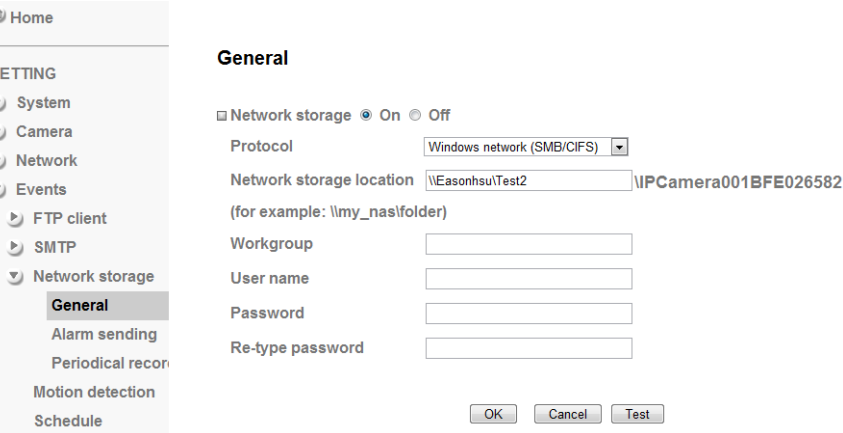
Events

Network Storage – general

Select On if you would like to use the network storage function. Then choose one protocol between Windows network (SMB/CIFS) and Unix network (NFS).

Protocol - Windows Network (SMB/CIFS):

Network Storage Location
Type the IP or name of specified computer and folder. For example, //IP/folder name or // my_nas/folder name.

Workgroup
Type the name of workgroup which the operating computer belongs.

User Name & Password
Type the name and password for workgroup.

Attached File Type
You can choose snapshot or video clip for alarm sending. Select "Snapshot," one snapshot will be transmitted to the specified network storage location while motion detection / audio detection / alarm input triggered. Select "Video clip," one video clip which can be selected from 5 seconds to 60 seconds will be transmitted.

Test
After setting the network storage location information, you can tick the test key to test if the connection between IP CAM and network storage location works.

Protocol- Unix network (NFS):

Network Storage Location
Type the IP or name of specified computer and folder. For example, //IP/folder name or my_nas:/folder name.

Test
After setting the network storage location information, you can tick the test key to test if the connection between IP CAM and network storage location works.

Events
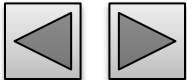
Network Storage – alarm sending

Set to transmit the snapshot or video clip file with connection to the alarm detection. Select On to send the file to network storage location linked with the alarm detection.

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  - Schedule

Alarm sending ● On ○ Off
Image file name   Alarm
Suffix   ○ Date Time ● Sequence number
                   Sequence number clear   [Clear]
Alarm   ☑ Motion detection [Motion detection]

Recording time   5 ▾ Sec (5 - 60)
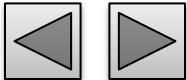Effective Period   ○ Always
                   ● Schedule   [Schedule]

[OK] [Cancel]

Image File Name
Type the file name you want to assign to the images when sending to the FTP server.

[Note]

1. You can set motion detection at motion detection page.
2. You can set schedule function at schedule page.

Suffix
Select a suffix to add to the file name.
Date & time
The date & time suffix is added to the Image file name.
Sequence number
The sequence number is added to the Image file name.
Sequence number clear
Click **Clear** and the suffix of the sequence number returns to 1.

Alarm
Motion Detection
Click for using **Motion Detection** function as a sensor.

Recording Time
Select recording time from 5 to 60 minutes.

Effective period
Set the period when the periodical sending is effective.
Always
The periodical sending is always effective.
Schedule
You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

Events

Network Storage – periodical sending

You can set to send an image file by SMTP server periodically by selecting **On** to send the image file by SMTP server linked with setting period.

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  - Schedule

Periodical recording

☐ Periodical recording ⦿ On ○ Off

Image file name   Record

Suffix   ○ Date Time ⦿ Sequence number

Sequence number clear [Clear]

File size   10   (1~50 MB)

Cyclic size   1024   (100~1024000 MB)

Recording time   ○ Always

⦿ Schedule [Schedule]

[OK] [Cancel]

Image file name

Type the file name of the image sent by SMTP up to 10 alphanumeric characters, - (hyphen) and _ (under score).

Suffix

Select a suffix to be added to the file name sent by SMTP.

Date & time

The date & time suffix is added to the Image file name.

Sequence number

The sequence number is added to the Image file name.

Sequence number clear

Click **Clear** and the suffix of the sequence number returns to 1.

File Size

The file size of image or video clip transmitted to the network storage location can't over 50MB.

Cyclic Time

The total amount of files transmitted to the network storage location has to be in the range from 100 to 1024000MB.

Recording Time

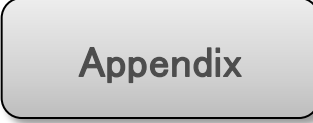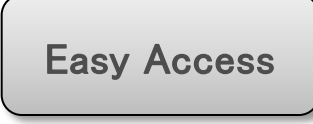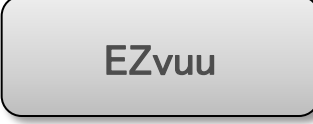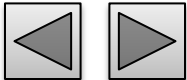Set the period when the periodical sending is effective.

Always

The periodical sending is always effective.

Schedule

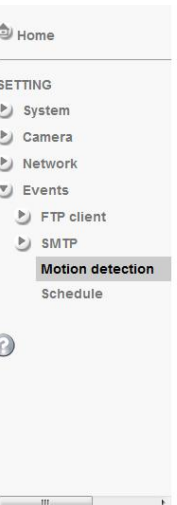You can specify the period when the periodical sending is effective in the Schedule setting in the other section.

[Note]

You can set schedule function at schedule page.

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Motion Detection

There are three Motion Detection functions as sensors to set for different detecting zones. Each one has Threshold and Sensitivity inputs which you can adjust to specific zone sequentially. Motion Detection function can support to FTP, SMTP and HTTP for capturing and sending images.

Threshold

It means the extent which the alarm will be triggered

Sensitivity

It means that how often the sensor will scan the image different. The higher sensitivity it is and the more frequently it scans.

Motion Detection 1, 2 and 3

Click it on for using **Motion Detection 1,2 and 3** function as a sensor. You can adjust and move the detecting zone by using mouse.
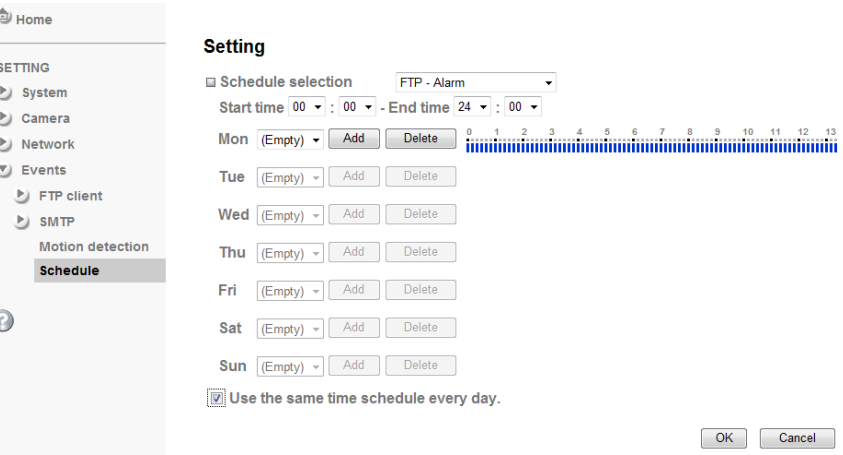
Events
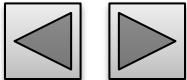
Schedule

This is the same menu as the setting menu which is displayed when you click **Schedule** to set Effective period and Schedule in **FTP** client setting menu and e-Mail (**SMTP**) setting menu.

Schedule Selection

Select the list box to specify the schedule you want to set.

FTP -Alarm

FTP - Periodical

e-Mail (SMTP) -Alarm

e-Mail (SMTP) -Periodical

Mon (Monday) to Sun (Sunday)

The time period on the right of the checked day is the effective period of the schedule.

Start time, End time

Specify the **Start time** and the **End time**.

Use the same time schedule every day

When this is checked, the **Start time** and **End time** set to **Mon** (Monday) are applied to all days. In this case, the **Start time** and **End time** of the other days than **Mon** (Monday) cannot be input.
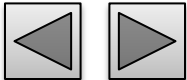
Help

Help

HELP is an online help and support. It provide solutions immediately.

HELP

System

Information
Day/Time
Account
System Log
Initialize

Camera

General
MPEG4 – Computer View
MPEG4 – Mobile View
MJPEG

Network

Information
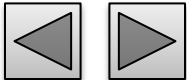
Appendix

Frame Rate and Bitrate Table

MPEG4 @ 30fps / Kbps

MPEG4 / Kbps, fps

MJPEG @ 15fps / Kbps

MJPEG / Kbps, fps

Storage Requirement Table

MPEG4 Storage Requirement GB / channel / day @ 30fps

MPEG4 Storage Requirement GB / channel / day @ 15fps

MPEG4 Storage Requirement GB / channel / day

MJPEG Storage Requirement GB / channel / day @ 15fps

MJPEG Storage Requirement GB / channel / day
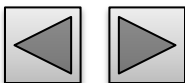
Frame Rate and Bitrate Table

MPEG4 @ 30fps / Kbps

Quality	640*480	320*240	160*120
Excellent	1000	300	90
Detailed	400	150	50
Good	300	100	30
Standard	250	70	25
Medium	250	55	20
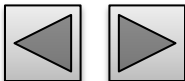
Frame Rate and Bitrate Table

MPEG4 / Kbps, fps

Image-Size	Bitrate Setting	Frame-Rate Setting	Current Bitrate	Current Frame-Rate
640*480	2048	30	1800	26
640*480	2048	15	2200	16
640*480	1536	30	1500	30
640*480	1536	15	1700	16
640*480	1024	30	1000	30
640*480	1024	15	1000	16
640*480	512	30	500	30
640*480	512	15	600	16
320*240	1536	30	1500	30
320*240	1536	15	1600	16
320*240	1024	30	1000	30
320*240	1024	15	1000	16
320*240	512	30	550	30
320*240	512	15	600	16
160*120	1024	30	950	30
160*120	1024	15	750	16
160*120	512	30	500	30
160*120	512	15	50	16
160*120	128	30	130	30
160*120	128	15	140	16
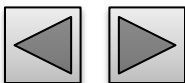
Frame Rate and Bitrate Table

MJPEG @ 15fps / Kbps

Quality	640*480	320*240	160*120
Excellent	4000	1500	600
Detailed	2400	900	400
Good	1600	650	300
Standard	1300	500	240
Medium	900	350	170
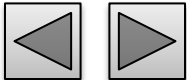
Frame Rate and Bitrate Table

MJPEG / Kbps, fps

Image-Size	Quality Setting	Frame-Rate Setting	Current Bitrate	Current Frame-Rate
640*480	Excellent	15	4000	13
640*480	Excellent	5	1600	5
640*480	Good	15	1600	13
640*480	Good	5	650	5
640*480	Medium	15	900	14
640*480	Medium	5	360	5
320*240	Excellent	15	1500	13
320*240	Excellent	5	550	5
320*240	Good	15	650	13
320*240	Good	5	260	5
320*240	Medium	15	350	13
160*120	Medium	5	130	5
160*120	Excellent	15	600	13
160*120	Excellent	5	230	5
160*120	Good	15	300	13
160*120	Good	5	115	5
160*120	Medium	15	170	13
160*120	Medium	5	65	5

Storage Requirement Table

MPEG4 Storage Requirement GB / channel / day @ 30fps

Quality	640*480	320*240	160*120
Excellent	10.5	3.2	0.9
Detailed	4.2	1.6	0.5
Good	3.2	1.1	0.3
Standard	2.6	0.7	0.3
Medium	2.6	0.6	0.2

Table of Contents

Product Overview
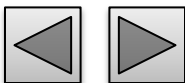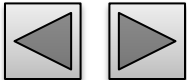
Hardware Installation
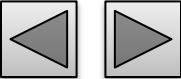
EZvuu

Easy Access

Live View

Setting

Appendix

Storage Requirement Table

MPEG4 Storage Requirement GB / channel / day @ 15fps

Quality	640*480	320*240	160*120
Excellent	5.3	1.6	0.4
Detailed	2.1	0.8	0.3
Good	1.6	0.6	0.2
Standard	1.3	0.4	0.1
Medium	1.3	0.3	0.1

Storage Requirement Table

MPEG4 Storage Requirement GB / channel / day

Image-Size	Bitrate Setting	Frame-Rate Setting	Current Bitrate
640*480	2048	30	23.0
640*480	2048	15	22.2
640*480	1536	30	18.5
640*480	1536	15	17.9
640*480	1024	30	10.5
640*480	1024	15	10.5
640*480	512	30	5.3
640*480	512	15	6.3
320*240	1536	30	15.8
320*240	1536	15	16.9
320*240	1024	30	10.5
320*240	1024	15	10.5
320*240	512	30	5.8
320*240	512	15	6.3
160*120	1024	30	10.0
160*120	1024	15	7.9
160*120	512	30	5.3
160*120	512	15	0.5
160*120	128	30	1.4
160*120	128	15	1.5
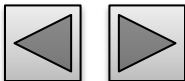
Storage Requirement Table

MJPEG Storage Requirement GB / channel / day @ 15fps

Quality	640*480	320*240	160*120
Excellent	42.2	15.8	6.3
Detailed	25.3	9.5	4.2
Good	16.9	6.9	3.2
Standard	13.7	5.3	2.5
Medium	9.5	3.7	1.8
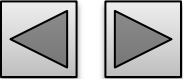
Storage Requirement Table

MJPEG Storage Requirement GB / channel / day

Image-Size	Bitrate Setting	Frame-Rate Setting	Current Bitrate
Image-Size	Quality Setting	Frame-Rate Setting	Current Bitrate
640*480	Excellent	15	42.2
640*480	Excellent	5	16.9
640*480	Good	15	16.9
640*480	Good	5	6.9
640*480	Medium	15	9.5
640*480	Medium	5	3.8
320*240	Excellent	15	15.8
320*240	Excellent	5	5.8
320*240	Good	15	6.9
320*240	Good	5	2.7
320*240	Medium	15	3.7
160*120	Medium	5	1.4
160*120	Excellent	15	6.3
160*120	Excellent	5	2.4
160*120	Good	15	3.2
160*120	Good	5	1.2
160*120	Medium	15	1.8
160*120	Medium	5	0.7