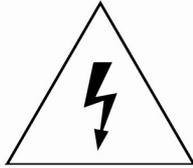


INSTRUCTION MANUAL Ver 1.0

Speed Dome Mini Indoor IP Camera - XNET / ISMC1063 (3810-0208A)





CAUTION

RISK OF ELECTRIC
SHOCK DO NOT OPEN



**CAUTION : TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONAL.**



This lightning flash with arrowhead symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING : TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE
THIS CAMERA TO RAIN OR MOISTURE.**

■ Important Safeguard

1. Read Instructions

Read all of the safety and operating instructions before using the product.

2. Retain Instructions

Save these instructions for future reference.

3. Attachments/Accessories

Do not use attachments or accessories unless recommended by the appliance manufacturer as they may cause hazards, damage product and void warranty.

4. Water and Moisture

Do not use this product near water or moisture.

5. Installation

Do not place or mount this product in or on an unstable or improperly supported location. Improperly installed product may fall, causing serious injury to a child or adult, and damage to the product. Use only with a mounting device recommended by the manufacturer, or sold with the product. To insure proper mounting, follow the manufacturer's instructions and use only mounting accessories recommended by manufacturer.

6. Power source

This product should be operated only from the type of power source indicated on the marking label.

■ Precautions

■ Operating

- Before using, make sure power supply and others are properly connected.
- While operating, if any abnormal condition or malfunction is observed, stop using the camera immediately and then contact your local dealer.

■ Handling

- Do not disassemble or tamper with parts inside the camera.
- Do not drop or subject the camera to shock and vibration as this can damage camera.
- Care must be taken when you clean the clear dome cover. Especially, scratch and dust will ruin your quality of camera.

■ Installation and Storage

- Do not install the camera in areas of extreme temperature, which exceed the allowable range.
- Avoid installing in humid or dusty places.
- Avoid installing in places where radiation is present.
- Avoid installing in places where there are strong magnetic fields and electric signals.
- Avoid installing in places where the camera would be subject to strong vibrations.
- Never expose the camera to rain and water.
- Don't connect the RJ-45 cable to a terminal by constraint.

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■ Features

■ Camera Specifications

- CCD Sensor : 1/4" Interline Transfer CCD (Zoom Lens Model)
- Zoom Magnification: x10 Optical Zoom, x10 Digital Zoom (Max. x100 Zoom)
- Day & Night Function
- Various Focus Mode : Auto-Focus / Manual Focus / Semi-Auto Focus.
- Independent & Simultaneous Camera Characteristic Setup in Preset operation

■ Network Specifications

- Support D1, CIF output resolution.
- MJPEG, MPEG4, H.264 codec selectable,.
- Support Dual Stream.
- Max. 30 frame/sec support.
- Bi-direction audio support(ADPCM, G.726)
- Up to 10 users can be connected.
- Support protocols : IPv4, HTTP, RTSP, UDP, SMTP, FTP, ICMP, DHCP, UPnP, Bonjour, ARP, DNS, DynDNS.
- Support Motion Detection(Up to 3 motion detection area can be defined)
- When event occurred, image save function (JPEG file, internal memory).

■ Powerful Pan/Tilt Functions

- Max. 360°/sec high speed Pan/Tilt Motion
- Using Vector Drive Technology, Pan/Tilt motions are accomplished in a shortest path. As a result, time to target view is reduced dramatically and the video on the monitor is very natural to watch.
- For jog operation using screen jog, since ultra slow speed 0.05°/sec can be reached, it is very easy to locate camera to desired target view. Additionally it is easy to move camera to a desired position with zoom-proportional pan/tilt movement.

■ Preset, Pattern, Swing, Group, Privacy Mask and More...

- Max. 127 Presets are assignable and characteristics of each preset can be set up independently, such as White Balance, Auto Exposure, Label and so on.
- Max. 8 set of Swing action can be stored. This enables to move camera repetitively between two preset positions with designated speed.
- Max. 4 of Patterns can be recorded and played back. This enables to move camera to follow any trajectory operated by screen jog as closely as possible.
- Max. 8 set of Group action can be stored. This enables to move camera repetitively with combination of Preset or Pattern or Swing. A Group is composed of max. 20 entities of Preset/Pattern/Swings.
- Privacy Masks are assignable, not to intrude on other's privacy. (4 Privacy Zones)

■ **OSD(On Screen Display) Menu**

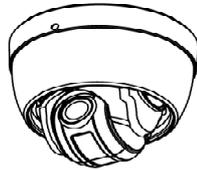
- OSD menu is provided to display the status of camera and to configure the functions interactively.
- The information such as Camera ID, Pan/Tilt Angle, Alarm Input and Preset can be displayed on screen.

■ **Alarm I/O Functions**

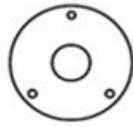
- 4 alarm sensor Inputs are available.
- To reject external electric noise and shock perfectly, alarm sensor Input is decoupled with photo coupler.
- The signal range of sensor input is from DC 5.0 to 12.0 volts to adopt various applications.
- If an external sensor is activated, camera can be set to move to the corresponding Preset position.

■ Product & Accessories

■ Product & Accessories



Main Body
&
Mounting Base



Rubber Gasket



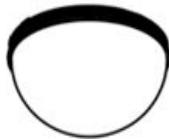
Plastic Anker



TORX Screw



Manual



Bubble



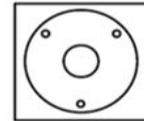
Adaptor(Optional)



Machine Screw



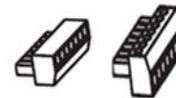
L-Style TORX
Wrench



Guide Pattern



Self-tapping
Screw



Terminal Block

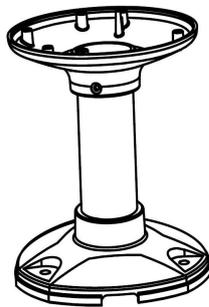


Network Cable

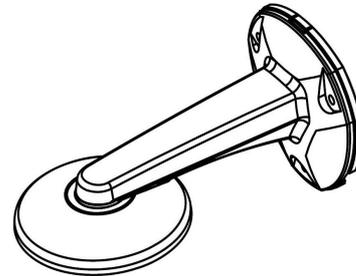


Install CD

■ Options

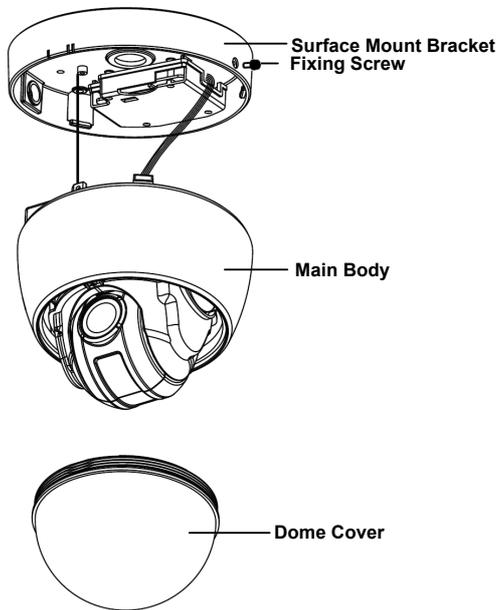


● Pendant Mount Bracket

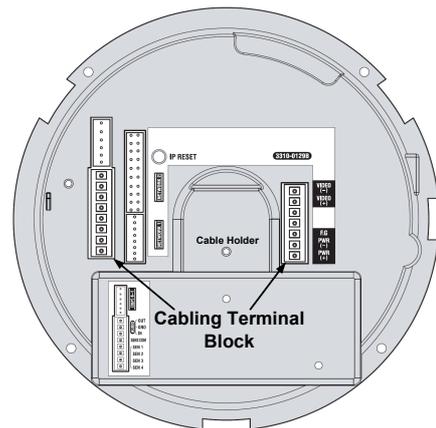


● Wall Mount Bracket

■ Parts Name & Functions



● Main Unit / Surface Mount Bracket



● Back of Main Unit

- Dome Cover (Bubble)

Do not detach protection vinyl from the bubble before finishing all installation process to protect the bubble from scratches or dust.

Selectable clear or smoke types.
- Surface Mount Bracket

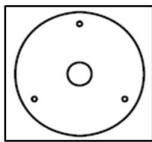
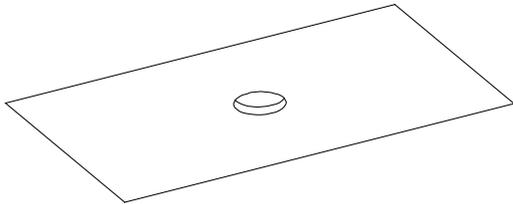
This is used to install the camera directly on the ceiling. After separating this cover first and then attach this directly to ceiling. Camera must be assembled at the last stage.
- Fixing Screw

Fixes main unit to surface mount bracket.
- Cabling Terminal Block

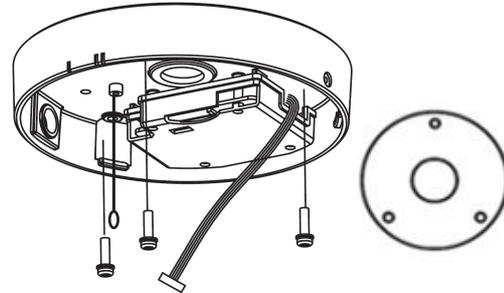
During installation, Power, Video, Audio, Alarm Input, Network cables are connected on to this cabling terminal block.

■ Direct Installation on the Ceiling

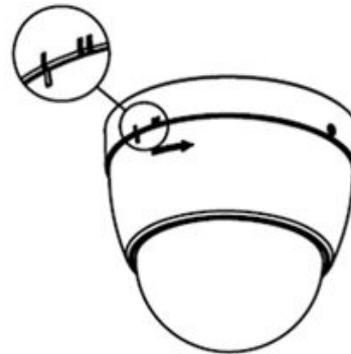
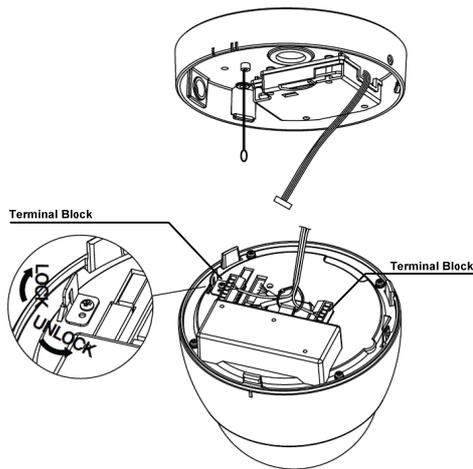
- ① To pass cables to upside of ceiling, please, make about 50~60mm hole on the ceiling panel.
- ② Detach the marked part from the rubber gasket and screw the surface mount bracket to the ceiling with fixing screw



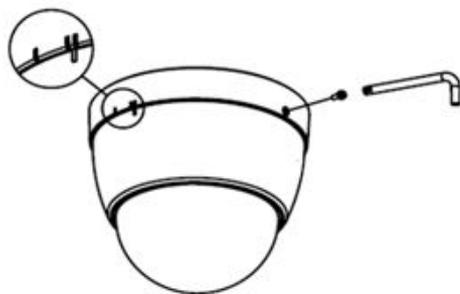
You can use "Guide Pattern" for the making holes.



- ③ Wire cables to terminal block and connect the terminal blocks to main unit.
- ④ Insert the main body into the surface mount bracket with the molding lines on each part being aligned and turning clockwise.

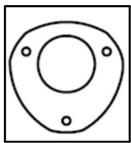
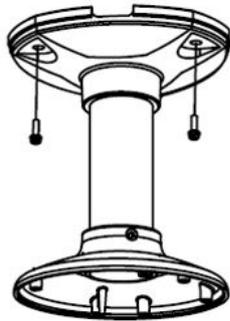


- ⑤ Insert the fixing screw tightly and detach the protection vinyl from dome cover.



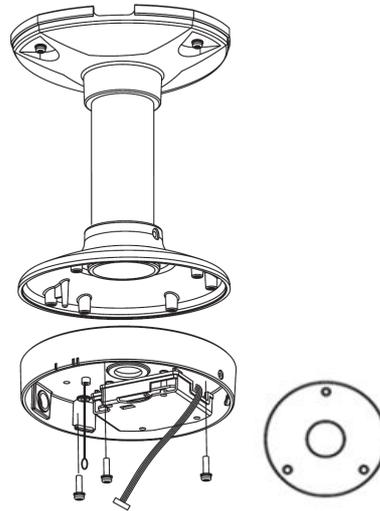
■ Installation using Pendant Mount Bracket.

- ① Screw pendant mount to ceiling with screws.

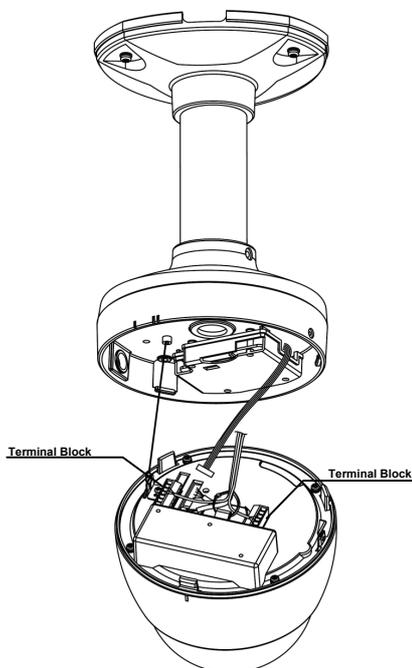


You can use "Guide Pattern" for the making holes.

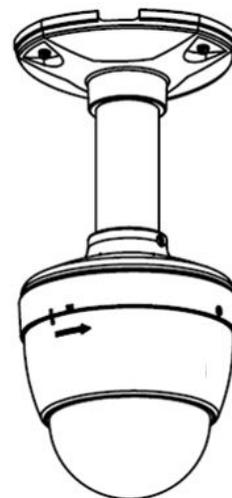
- ② Detach the marked part from the rubber gasket and screw the mounting base to the pendant mount bracket with fixing screws.



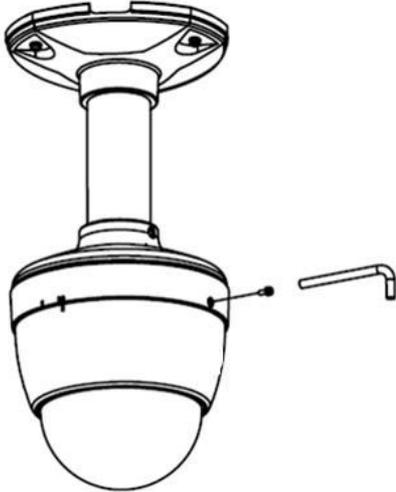
- ③ Wire cables to terminal block and connect the terminal blocks to main unit.



- ④ Insert the main body into the pendant mount bracket with the molding lines on each part being aligned and turning clockwise.

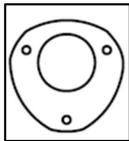
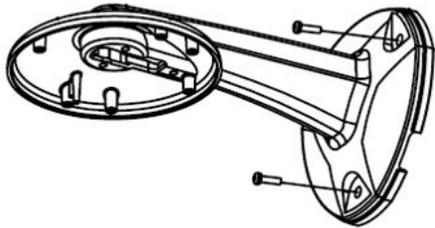


- ⑤ Insert the fixing screw tightly and detach the protection vinyl from dome cover.



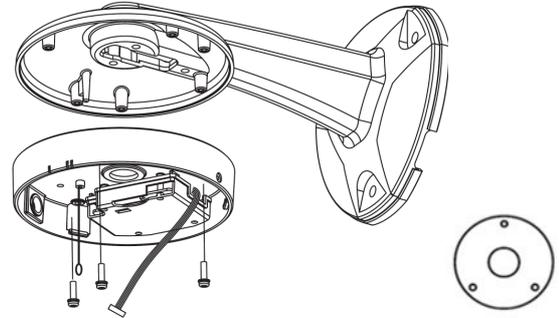
■ Installation using Wall Mount Bracket

- ① Screw wall mount bracket to wall with 3 screws.

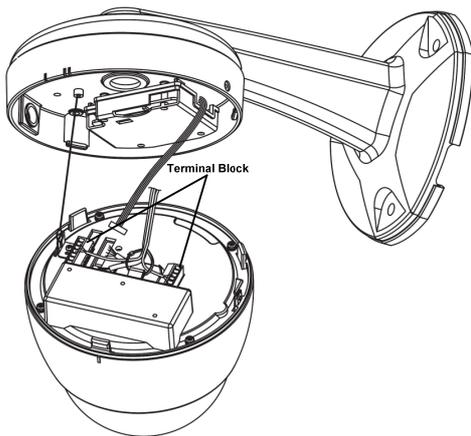


You can use "Guide Pattern" for the making holes.

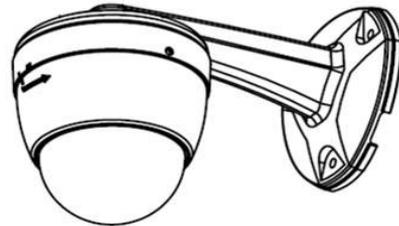
- ② Detach the marked part from the rubber gasket and screw the mounting base to the wall mount bracket with fixing screws.



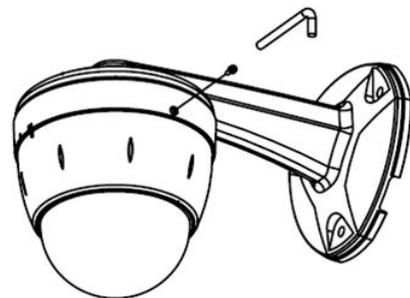
- ③ Wire cables to terminal block and connect the terminal blocks to main unit.



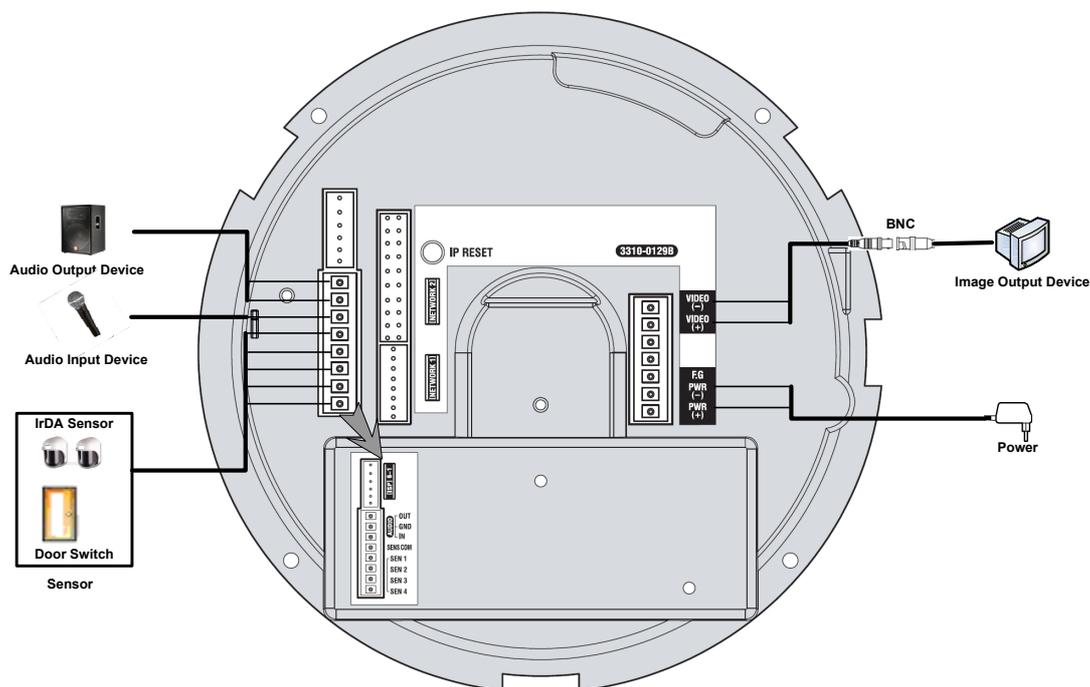
- ④ Insert the main body into the wall mount bracket with the molding lines on each part being aligned and turning clockwise.



- ⑤ Insert the fixing screw tightly and detach the protection vinyl from dome cover.



■ Cabling



Cabling Terminal Block

■ Power Connection

- Please, check the voltage and current capacity of rated power carefully. Rated power is indicated in the back of main unit.

Rated Power	Input Voltage Range	Current Consumption
DC 12V	DC 11V ~ 18V	1.5 A

■ Audio Input/Output Connection

- Connect with audio input/output device.

■ Video Connection

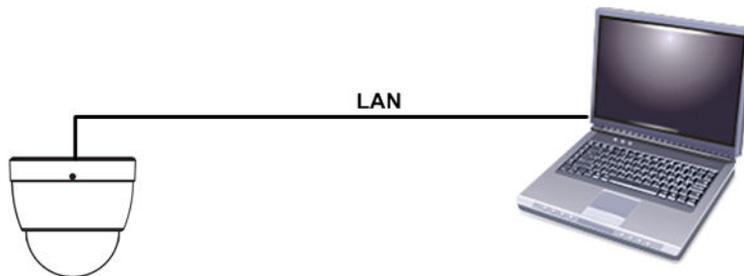
- Connect with BNC coaxial cable.

■ LAN Connection

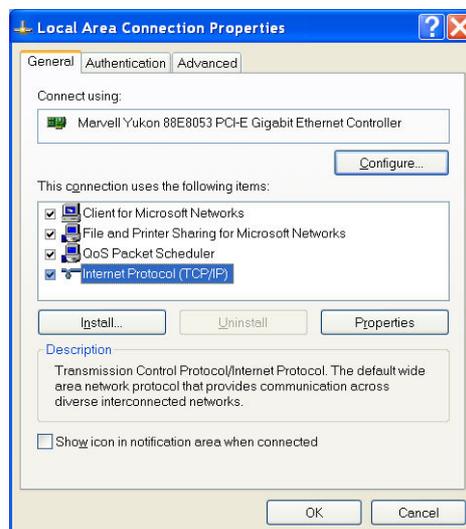
- **NETWORK 1**
 - Connect with 8 pin cable. (RJ-45)
- **NETWORK 2**
 - Connect with 20 pin cable.

■ LAN Connection

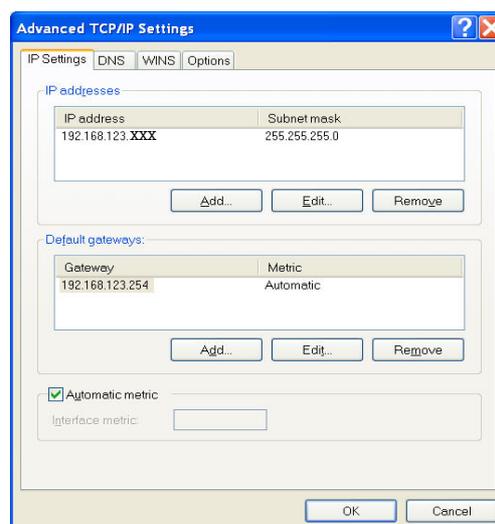
- Single Connection



Notes. If single network connection, you must register the internal IP of your computer. To register the IP, go to My Network environment->Properties-> Local Area Connection -> Properties.

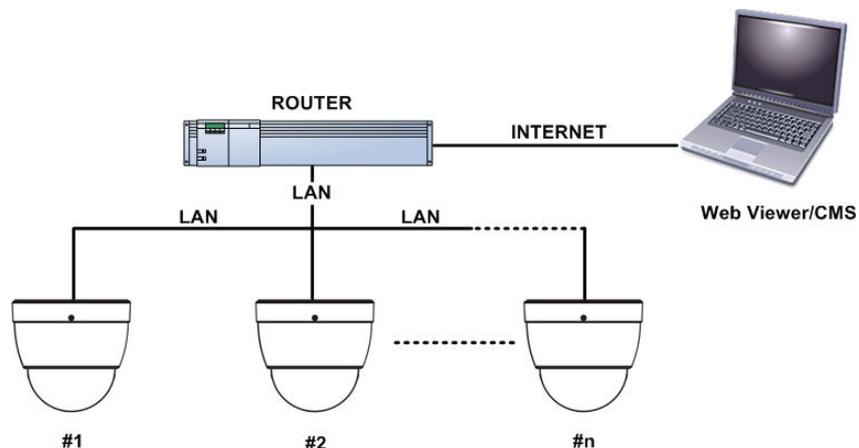


Select Internet Protocol(TCP/IP) and click the “Properties” button below, then press “Advanced...” to set Advanced options for your PC.



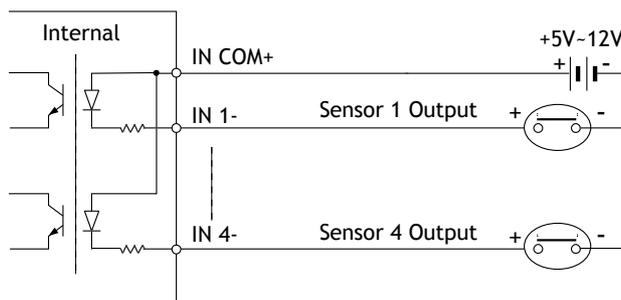
192.168.123.XXX as the internal IP of you computer. 192.168.123.100 is the IP address for the camera and will be unavailable as the internal IP address for your computer.

- Multiple Connection



- Alarm Input Connection

- Sensor Input



Before connecting sensors, check driving voltage and output signal type of the sensor. Since output signal types of the sensors are divided into Open Collector and Voltage Output type in general, the cabling must be done properly after considering these typed.

Signal	Description
IN COM+	Connect (+) cable of electric power source for Sensors to this port as shown in the circuit above.
IN1-, IN2-, IN3-, IN4-	Connect output of sensors for each port as shown in the circuit above.

If you want to use Alarm Input, the types of sensor must be selected in OSD menu. The sensor types are Normal Open and Normal. If sensor type is not selected properly, the alarm can be activated reversely.

Normal Open	Output Voltage is high state when sensor is activated
Normal Close	Output Voltage is high state when sensor is not activated

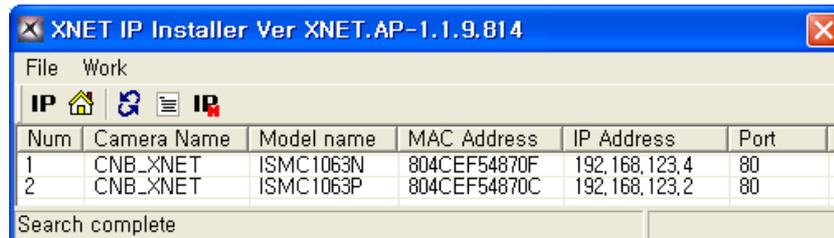
■ System Administration

● Logging On

You can log on as an administrator using either internet browser or 'CMS' software.

(This manual will describe about using internet browser only.)

● Using IP Installer



● Using Internet Explorer

Type the IP Address of the XPEED-XNET product in the address bar and press enter.

Ex) : `http://192.168.123.100`

If the HTTP Port has been changed from the default value, enter the new port as shown below.

IP Address of the XPEED-XNET Port No.

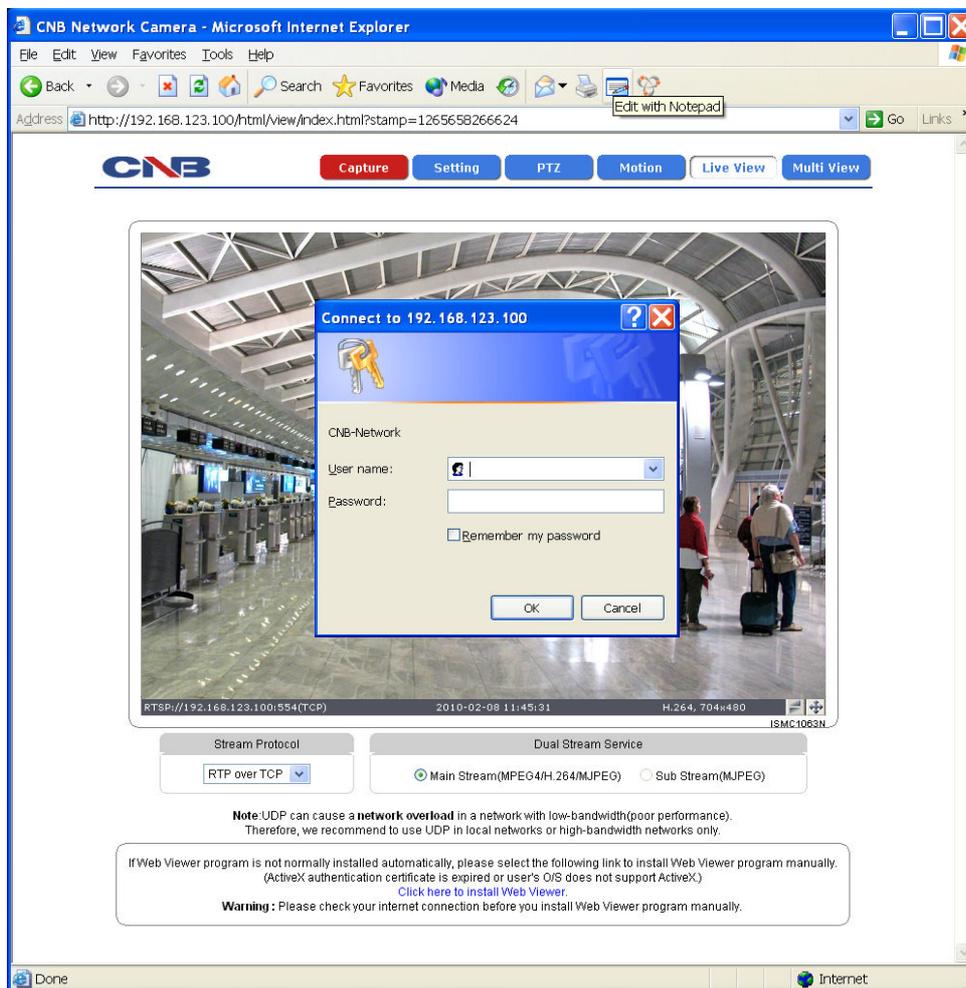
Ex) : `http://192,168.123.100:8080`

● ID and Password

If you are logging in as an administrator, the Log-In box will appear as shown in following figure.

Basic Setup page will appear when you enter id and password.

■ System Administration



- The default user name and password is “root” and “admin” respectively.



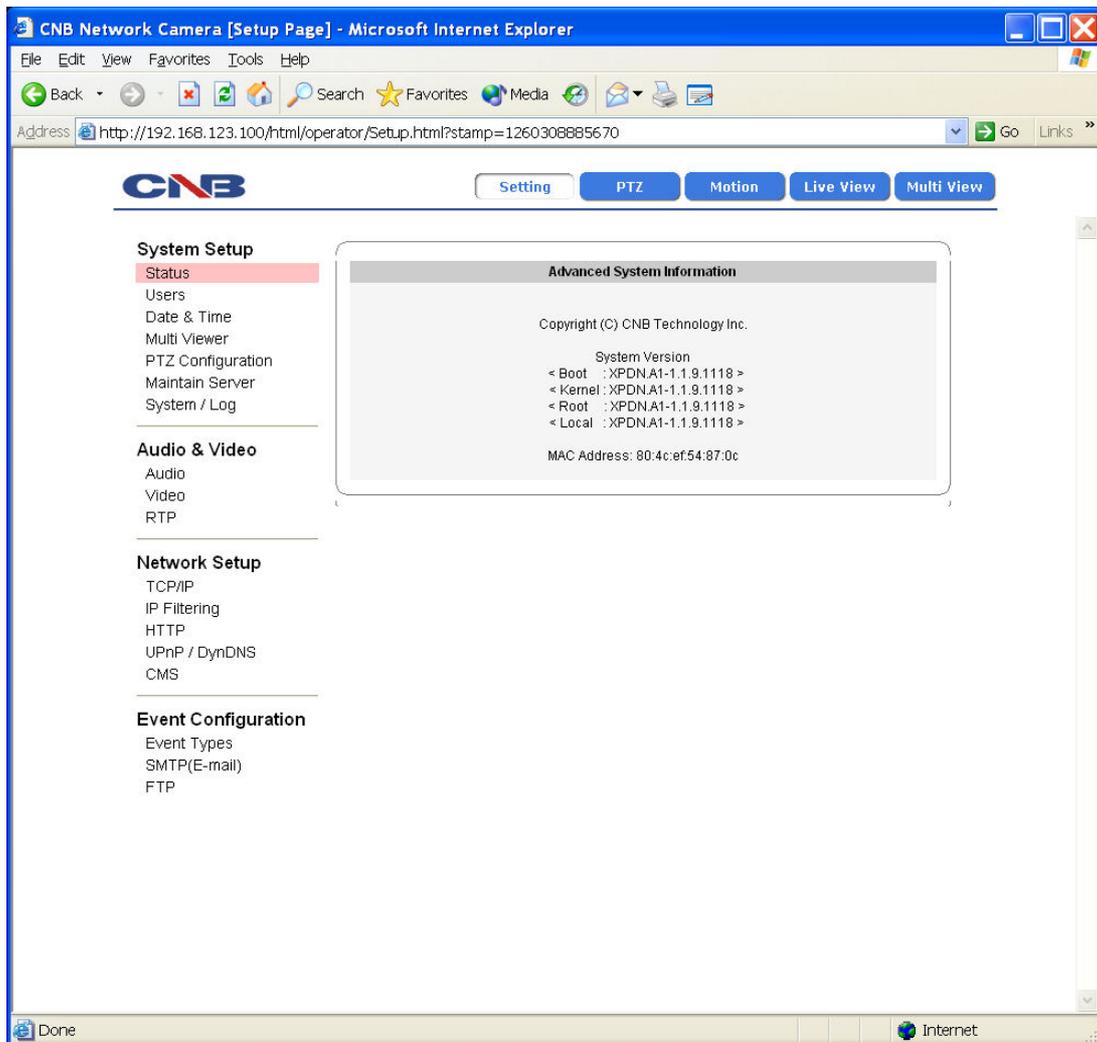
For security purpose, it is recommended to change the administrator’s id and password from their default values. Please be careful not to forget them or expose them to others. Please refer to “User Setting” or detail



If you forget the administrator’s password, “IP Reset” is the only way to regain access. However, since this will retrieve all default settings, you need to configure the network settings using IP installer software again.

■ Configuring Speed Dome

- When you log in as an administrator, XPEED-XNET's Basic Setup page will appear as shown in below figure. Setup pages for different features can be accessed from this page. Access to each feature are controlled by different user groups. (Administrator, Operator and Viewer)



- Basic Setup Page can be accessed from Operator group level and up.
If you want to access Administrator level page in this user level, you need to log in as Administrator.
Please refer to the following table for access authority.

■ **Page Access Authority**

O : Accessible

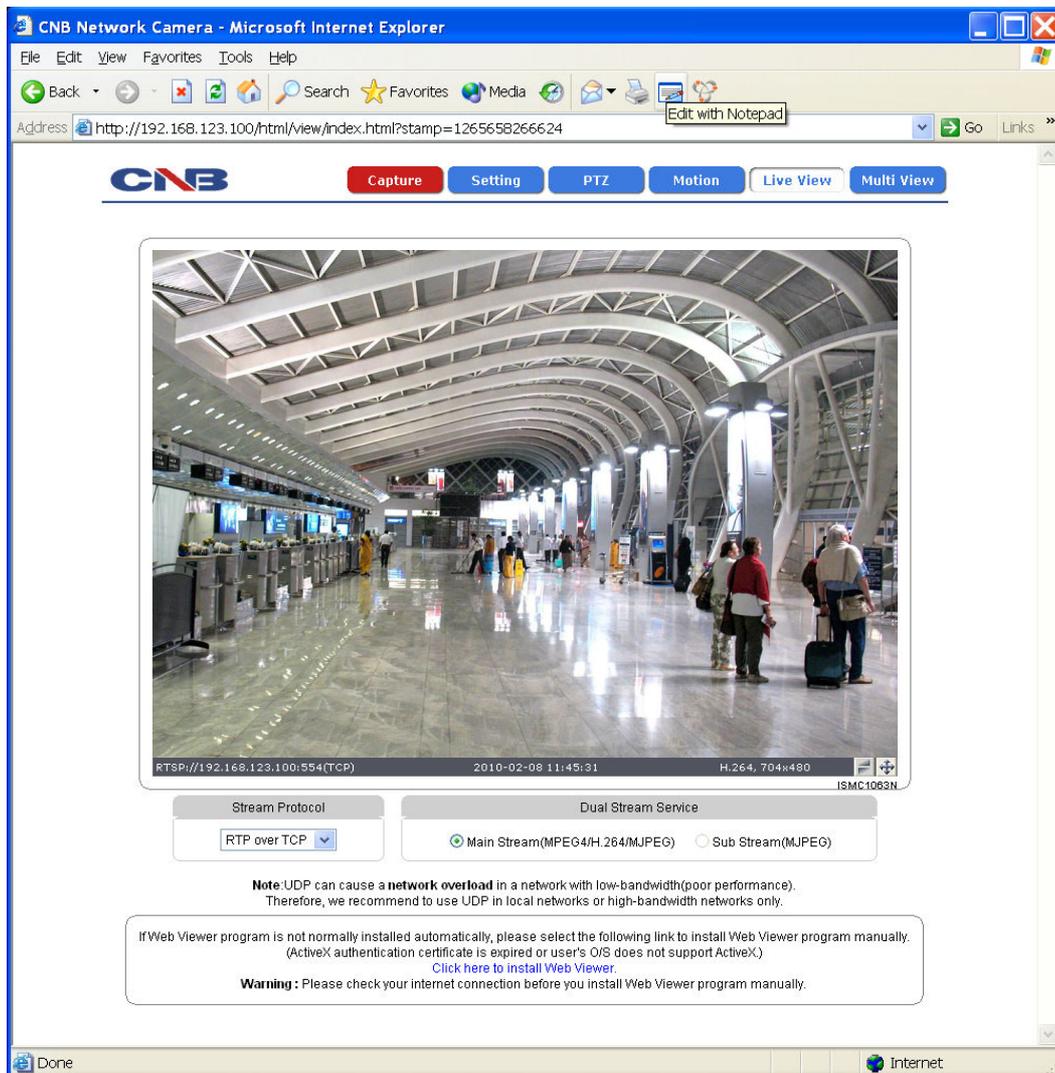
X : Not Accessible

Function(page)	Access		
	Administrator	Operator	Viewer
Index	O	O	O
Multi-Index	O	O	O
PTZ	O	O	X
Motion	O	O	X
Users	O	X	X
Date&Time	O	O	X
Multi-Viewer	O	X	X
Maintain Server	O	X	X
System / Log	O	X	X
Audio	O	O	X
Video	O	O	X
TCP / IP	O	X	X
IP Filtering	O	X	X
SMTP	O	O	X
FTP	O	O	X
HTTP	O	X	X
UPnP / DynDNS	O	X	X
RTP	O	O	X
CMS	O	X	X
Event Type	O	O	X
PTZ Configuration	O	X	X

■ Web Viewer (Index.html)

- When you access an XPEED-XNET product, Web Viewer page will appear automatically.

Viewer area displays the video output from the camera, and menu bar contains taps that lead to each feature setting page.

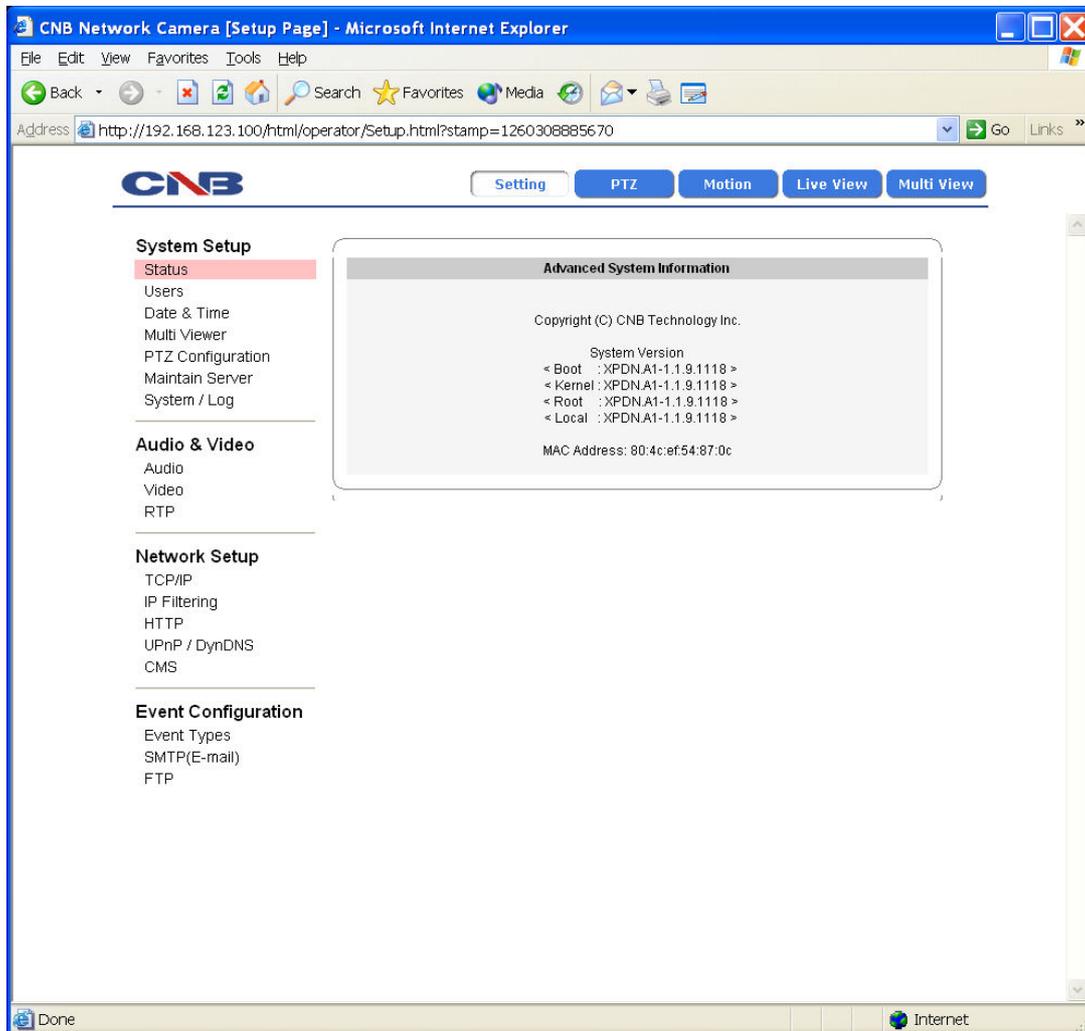


ITEM		DESCRIPTION
Capture	-	Captures the still image and displays on a pop-up window. [Save to] c:\xNetCapture
Setting	-	Opens up Basic Setup Page. Setup page for each XPEED-XNET feature can be opened from this Menu Screen.
PTZ	-	Opens up PTZ page. This page can set up digital PTZ of the network camera and control of PTZ movement.
Motion	-	Opens up Motion Detection page. You can add or delete areas for detecting motion in this page.
Live View	-	Opens up Index View page. Index View Page will display Video as well as setting up Stream Protocol (TCP /UDP) and Codec.(When using Dual Stream).
Multi View	-	Opens up Multi View page. Multi View page will display up to 4 video signals set up in camera's Multi Video Player Setup Page.
Stream Protocol	-	A Stream Protocol can be selected when selecting edit box. (RTP over TCP/RTP over UDP)
Dual Stream Service	Main Stream	When this box is checked, Main Stream Video is displayed. (MPEG4/H.264/MJPEG)
	Sub Stream	When this box is checked, Sub Stream Video is displayed, Dual-Codec needs to be enabled in Video Setup Page in order for Sub Stream Video to be displayed. (MJPEG)

■ Status Window

- Status page displays XPEED-XNET System's Version and its Ethernet address.

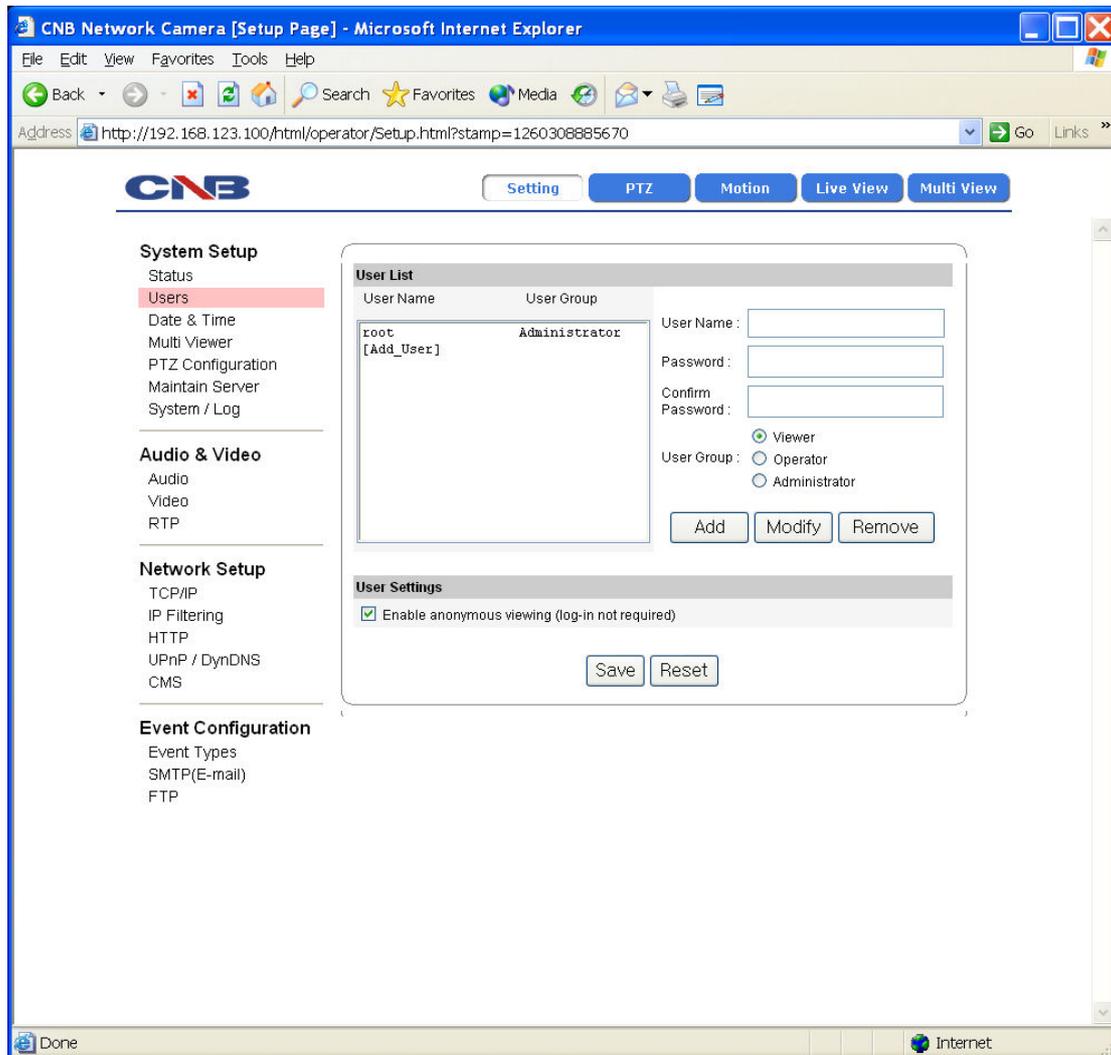
Click [Status] button to open the page shown in below figure.



■ Configuring Users

- This can give or limit authority to users for controlling Video and other features of the XPEED-XNET system.

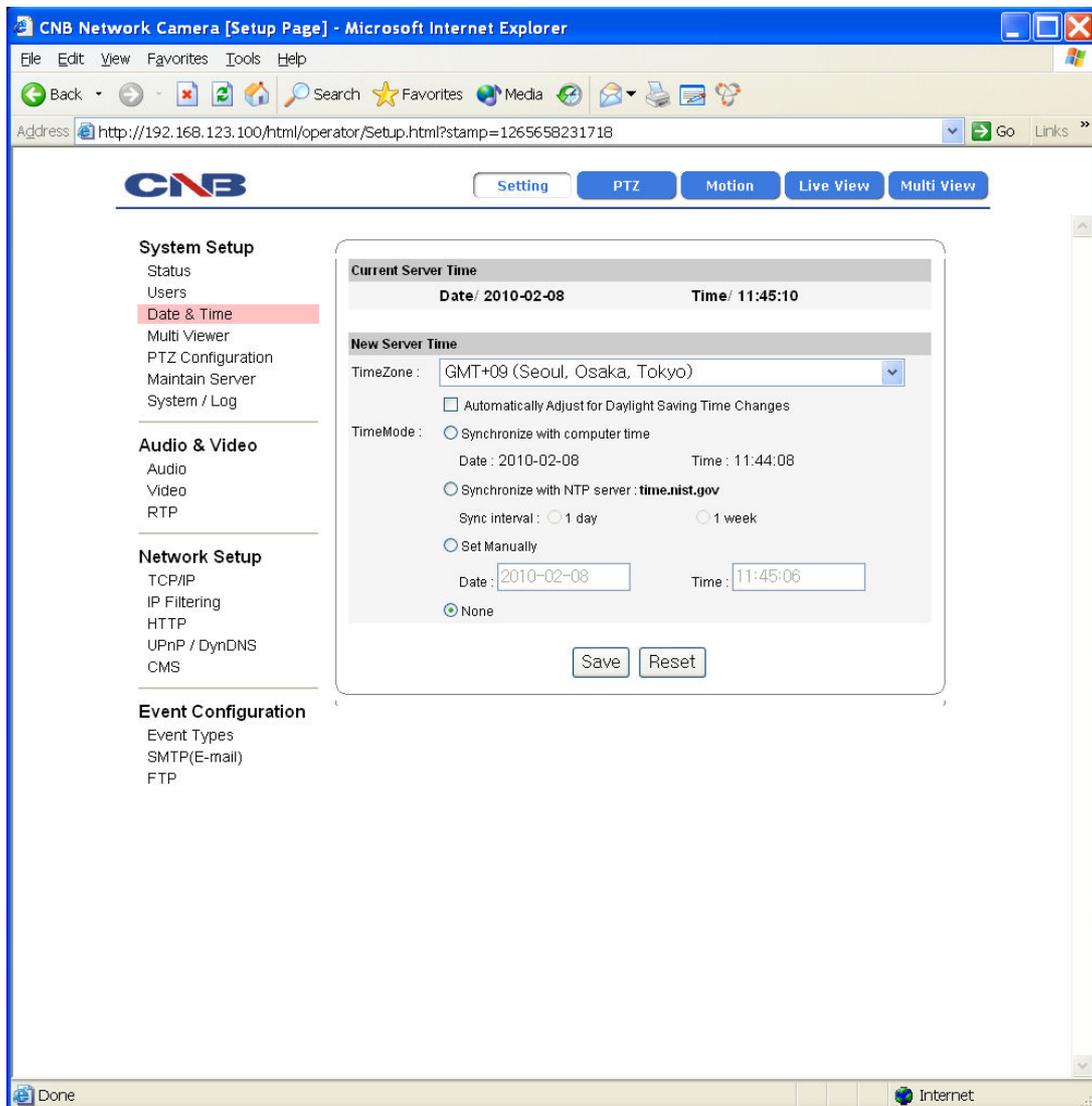
Click [Users] button to open the page shown in below figure.



ITEM		DESCRIPTION
User List		Displays list of registered users. “root” is the system’s administrator. “root” cannot be added or deleted. Only the password for “root” can be changed.
Add	-	This adds a new user. Select “[Add_User]” tap in User List Box. To add a new user, enter User name, Password and User group then click Add button. Updated User list can be viewed in User List Box. <ul style="list-style-type: none"> - Up to 10 users can be added. - Authority of different User Groups. <ul style="list-style-type: none"> · Administrator : Full control of the XPEED-XNET system. · Operator : Control over Viewer, Audio&Video Setup and Event Configuration. · Viewer : View camera’s video signal only.
Modify	-	Modifies information for each user. Select a user in User List box, enter new Password, User Group and click modify button to save the changes. Updated detail can be viewed in user List box.
Remove	-	Removes a user. Select a user in User List box and click remove button to remove. Updated user list can be viewed in User List Box.
User Settings	Enable anonymous viewer login	Turns Anonymous viewer mode on or off. When enabled, Web Viewer can be accessed without a log-in prompt.
Save	-	Applies and saves the configurations.
Reset	-	Recalls previously saved configurations.

■ Setting Date & Time

- This page will change Date and Time of the XPEED-XNET system.
Click [Date & Time] to open the page shown in below figure.

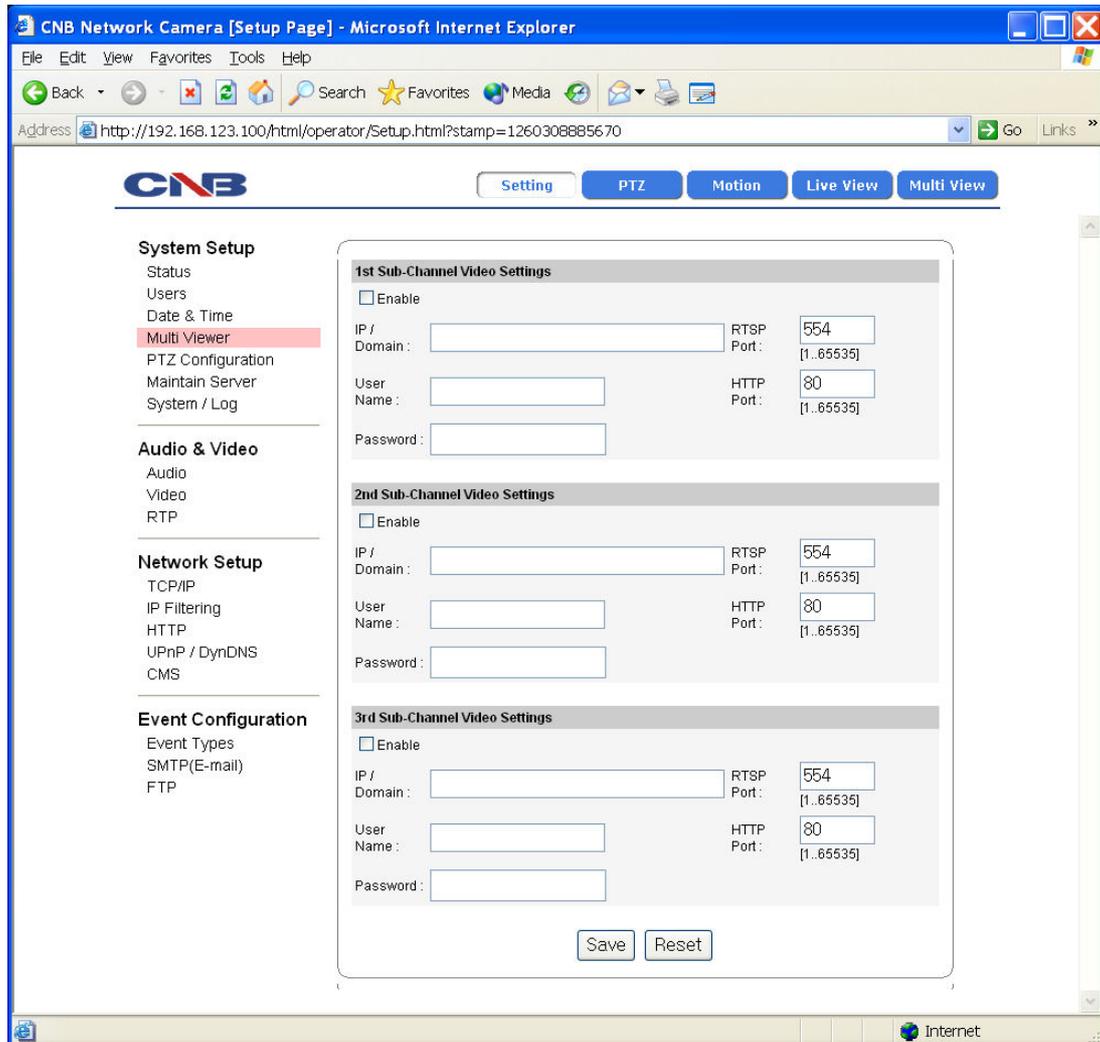


ITEM		DESCRIPTION
Current Server Time	-	Displays time of the XPEED-XNET system.
New Server Time	Time Zone	Selects Time Zone. <Default : GMT+09>
	Automatically Adjust for Daylight Changes	Enables/Disables Daylight Saving time.
	Time Mode	<p>Sets Date and Time of the Server. <Default : None></p> <p>[Synchronize with computer time] - Synchronizes time and date of Client PC to Server.</p> <p>[Synchronize with NTP server] - Synchronizes server's time and date to NTP Server. (Enter NTP server address in Network Setup Page)</p> <p>[Set Manually] - Set date and time of Server manually.</p> <p>[None] - Do not Change the Server Date, Time.</p>
Save	-	Applies and saves the configurations.
Reset	-	Recalls previously saved configurations.

■ Configuring Multi-Viewer

- Up to 3 cameras connected to XPEED-XNET's network can be displayed as sub-cameras simultaneously in Multi-View page.

Click [Multi Viewer] to open the page shown in below figure.

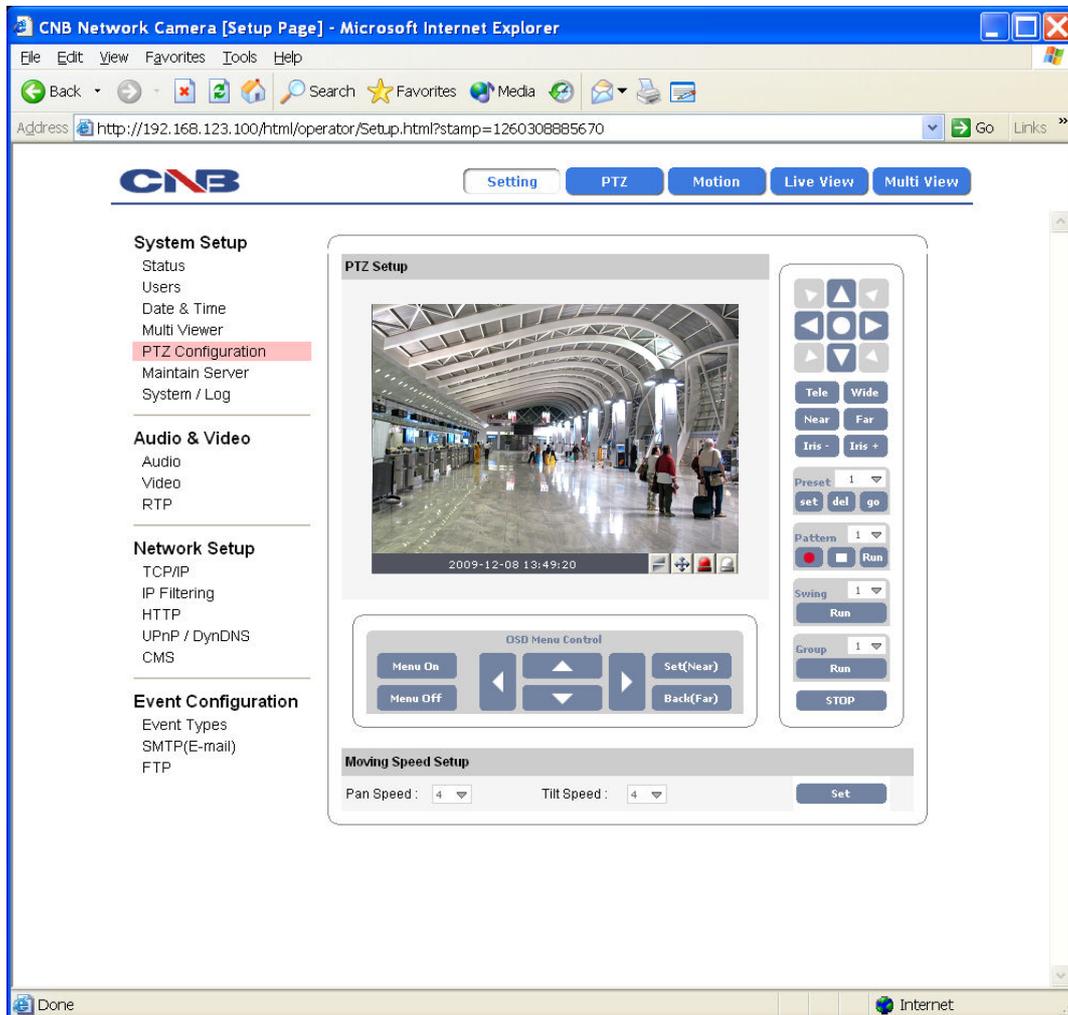


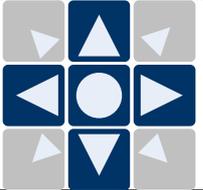
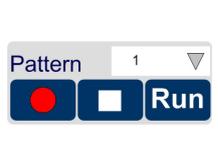
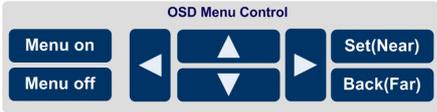
ITEM		DESCRIPTION
1st Sub-Channel Video Settings	Enable 1st Sub Channel Video	Enables viewing of 1st sub Channel Video from the IP address entered. This can only be enabled when IP Address, User Name and password is properly entered. <Default : Disable>
	1st IP Address	Enter 1st Channel's IP Address.
	1st User name	Enter 1st Channel's User name.
	1st Password	Enter 1st Channel's Password.
	1st RTSP Port	Enter 1st Channel's RTSP.
	1st HTTP Port	Enter 1st Channel's HTTP.
2nd Sub-Channel Video Settings	Enable 2nd Sub Channel Video	Enables viewing of 2nd Channel Video from the IP address entered. This can only be enabled when IP Address, User Name and password is properly entered. <Default : Disable>
	2nd IP Address	Enter 2nd Channel's IP Address
	2nd User name	Enter 2nd Channel's User Name.
	2nd Password	Enter 2nd Channel's Password.
	2nd RTSP Port	Enter 2nd Channel's RTSP.
	2nd HTTP Port	Enter 2nd Channel's HTTP.
3rd Sub-Channel Video Settings	Enable 3rd Sub Channel Video	Enables viewing of 3rd sub Channel Video from the IP address entered. This can only be enabled when IP Address, User Name and password is properly entered. <Default : Disable>
	3rd IP Address	Enter 3rd Channel's IP Address.
	3rd User name	Enter 3rd Channel's User Name.
	3rd Password	Enter 3rd Channel's Password.
	3rd RTSP Port	Enter 3rd Channel's RTSP.
	3rd HTTP Port	Enter 3rd Channel's HTTP.
Save	-	Applies and Saves the configurations.
Reset	-	Recalls previously saved configurations.

■ Configuring PTZ

- This configures XPEED-XNET's PTZ server information.

Click [PTZ Configuration] to open the page shown in below figure.

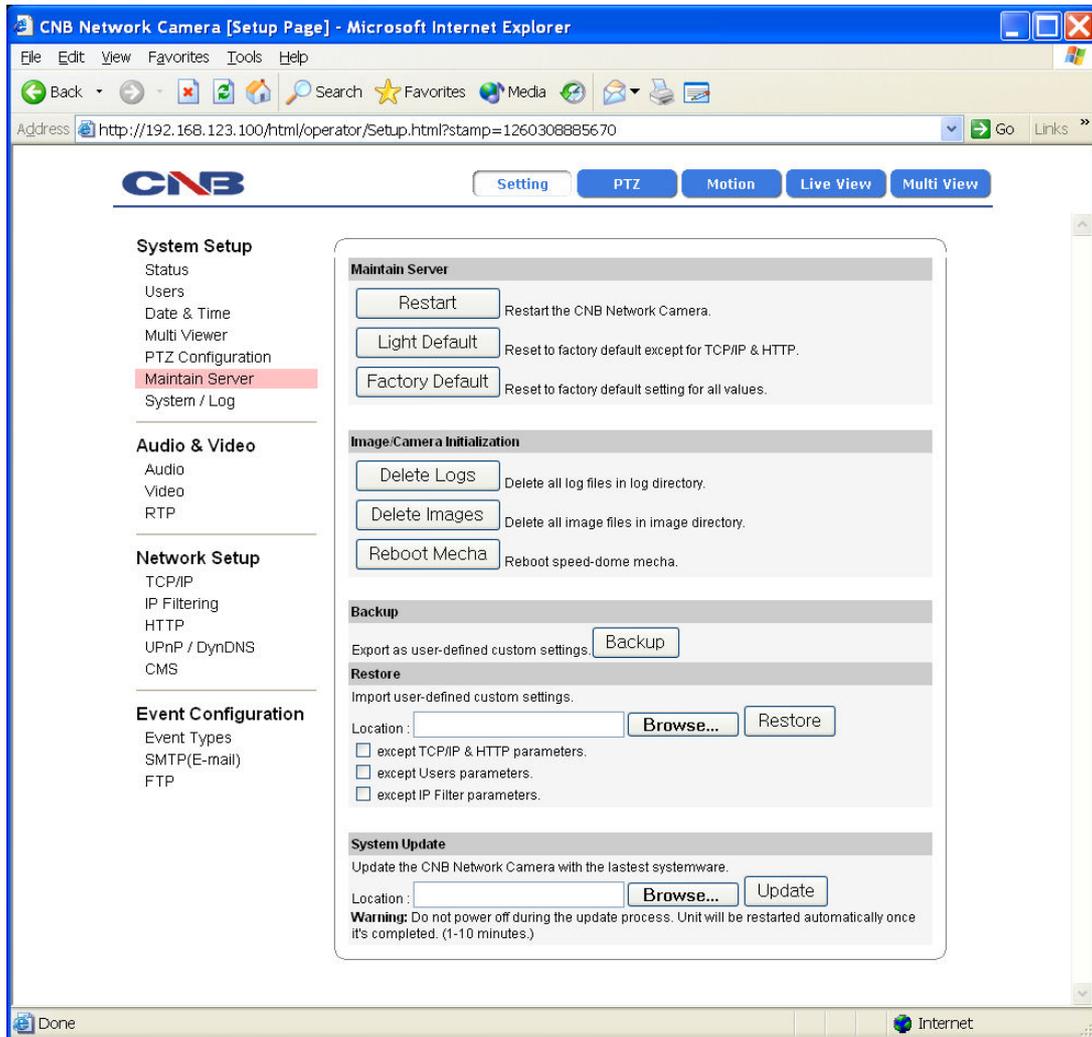


ITEM		DESCRIPTION
	Direction Key	Moves camera up/down/left/right.  Moves Origin.
	Tele/Wide	Tele : Executes Tele zoom. Wide : Executes Wide zoom.
	Near/Far	Near : Executes Focus Near. Far : Executes Focus Far.
	Iris-/Iris+	Iris- : Executes Iris Close. Iris+ : Executes Iris Open.
	set	The current position is set to Preset NO.
	del	Current Preset No. is deleted.
	go	The camera moves to the specified Preset position.
		Start pattern recording.
		Save and stop pattern.
		Run pattern.
	-	Desired Swing is executed.
	-	Desired Group is executed.
		Preset/Pattern/Swing/Group operation is stopped.
		Menu On : Camera OSD Menu Open. Menu Off : Camera OSD Menu Close.  : Move from items to item in OSD Menu. Set(Near) : Save function in OSD Menu. Back(Far) : Cancel function and move to the upper-menu in OSD Menu.
Moving Setup	Pan Speed	Set Pan Speed.
	Tilt Speed	Set Tilt Speed.
	Set	Applies and saves setting value.

■ Maintain Server Configurations

- This page configures system parameters such as system restart, factory default settings, system upgrade saving configurations, saving images and other additional features.

Click [Maintain Server] to open the page shown in below figure.

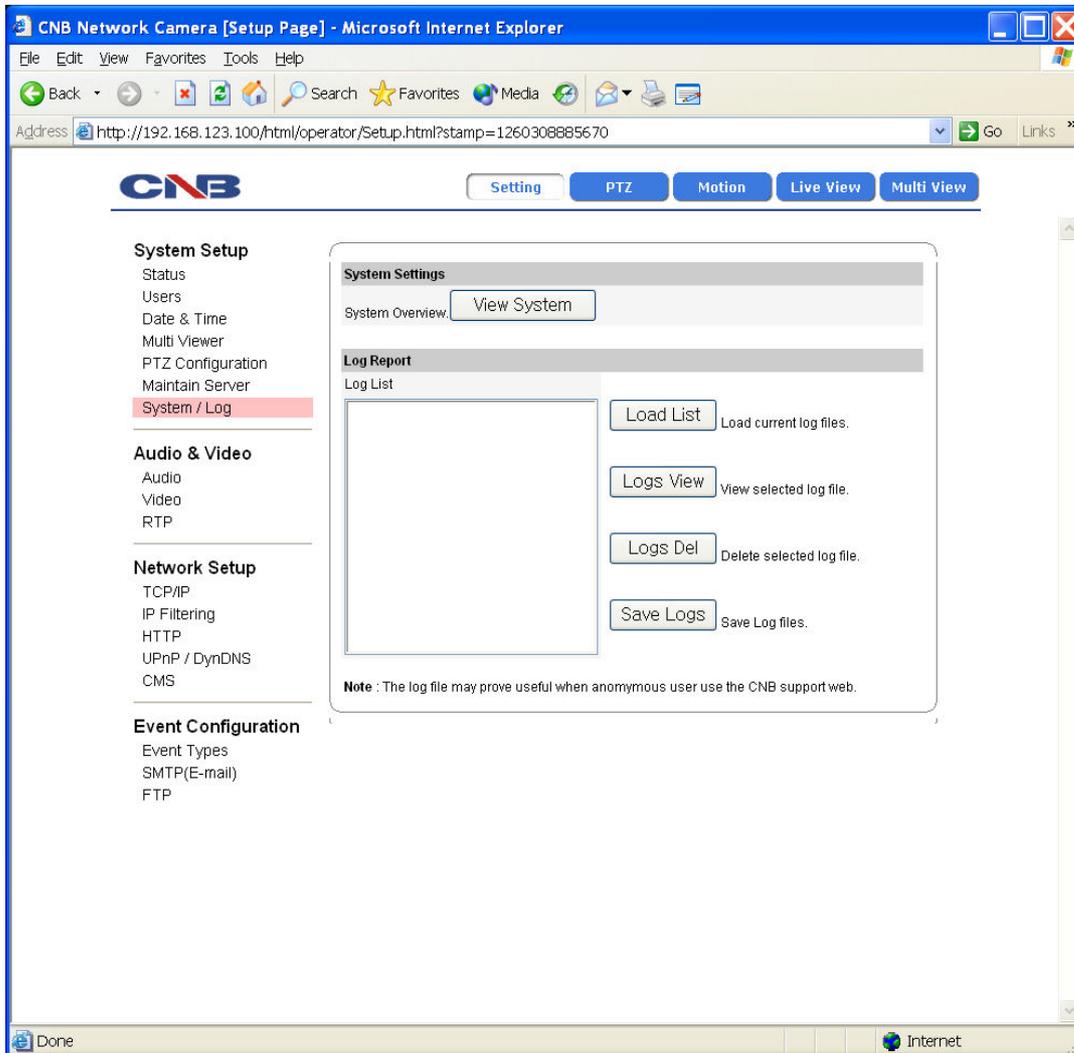


ITEM		DESCRIPTION
Maintain Server	Restart	Restarts the system. It takes about 45 seconds.
	Restore	Resets all parameters except for TCP/IP settings. This restore will be followed by a 45 seconds system reset.
	Default	Resets all parameters to Factory Default setting. This will be follow by a 45 seconds system restart.
Image/Camera Initialization	Reset Log	Deletes all Log Messages.
	Reset Image	Deletes all Alarm Images from the internal Flash Memory.
	Reboot Mecha	Restarts speed dome Mecha.
System Upgrade	Upgrade	Use this to upgrade the system. Select location of Upgrade file in Client PC and click Upgrade button. This will be followed be one-minute system restart. (Note) Please do not disconnect power and LAN cable from the XPEED-XNET while the upgrade is in process. It might cause a system error. Upgrade File can be downloaded from http://www.cnbtec.com
BackUp	Backup	This saves current configurations in Client PC. Back up file can be restored to other XPEED-XNET cameras. This will be followed by a 45 seconds system reset.
Restore	Restore	This loads up settings from a saved Backup file. Click restore button after selecting backup files in Client PC. Optional check boxes can be used to select settings to be excluded from the restore process. - Except TCP/IP box : Exclude TCP/IP settings. - Except Users box : Exclude Users setting. - Except IP Filter box : exclude UP Filter settings. This will be followed by a one-minute system reset.

■ Generating Log Report

- Log report contains detailed information about XPEED-XNET's image, setup and error.

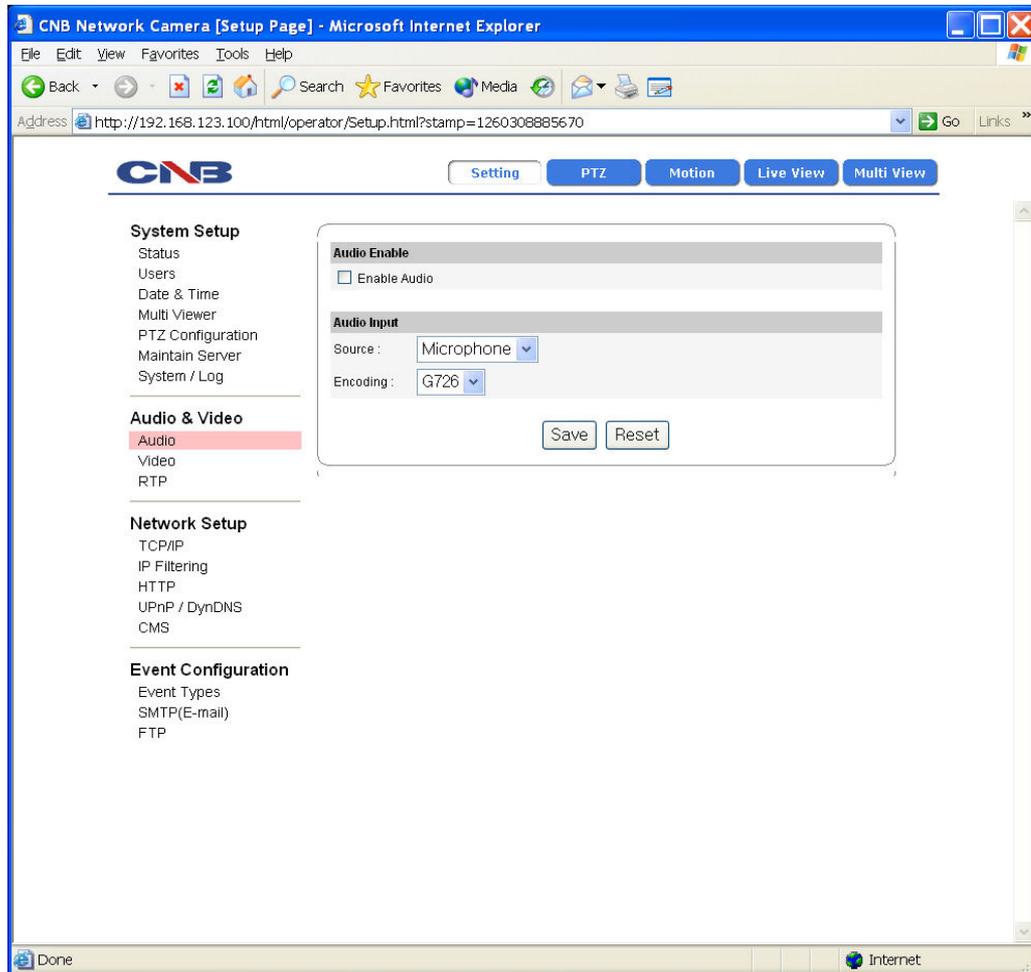
Click [Log Report] button to open the page shown in below figure.



ITEM		DESCRIPTION
System Settings	System Overview	Displays current configurations for the XPEED-XNET option pages.
Log Report	Load List	Loads up Log message file stored in the XPEED-XNET product. Log Message file can be sorted with date and index. Click Load List button to view message list in the List box.
	Logs View	Select a file from the Log List and click Logs view button to view.
	Logs Del	Select a file from the Log List and click Delete button to delete.
	Save Logs	Select a file from the Log List and click Save Logs button to save the file to PC.

■ Configuring Audio

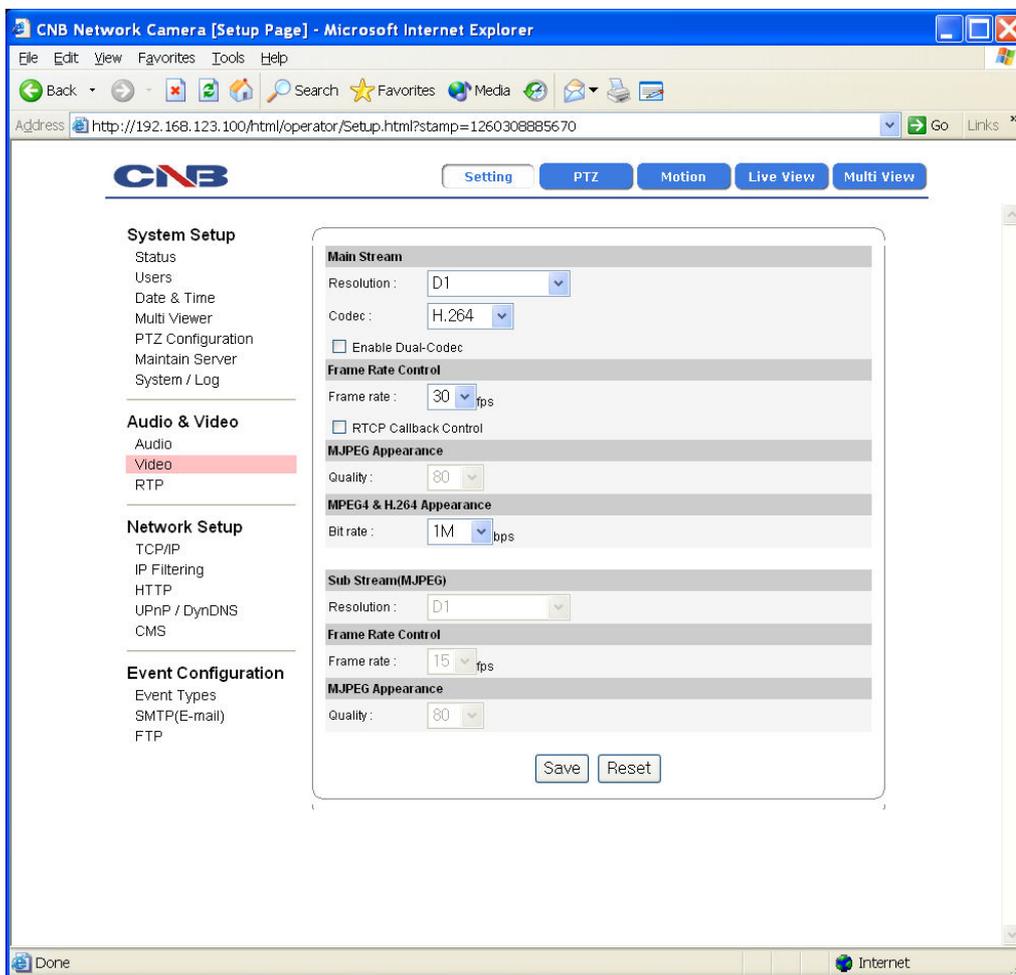
- XPEED-XNET's Audio features can be configured in this page.
Click [Audio] button to open the page shown in below figure.



ITEM		DESCRIPTION
Audio Enable	Enable audio	Enables or Disables Audio feature. <Default : Disable>
Audio Input	Source	Select audio input source between Microphone and line. <Default : Microphone> Microphone input can be used when users send their voice over the XPEED-XNET system. Line input takes the input from an audio device to send over XPEED-XNET. Audio sent to XPEED-XNET can be played at a Client's PC or an audio device.
	Encoding	Selects audio input Encoding method.<Default : G726>
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring Video

- XPEED-XNET's Video features can be configured in this page.
Click [Video] button to open the page shown in below figure.

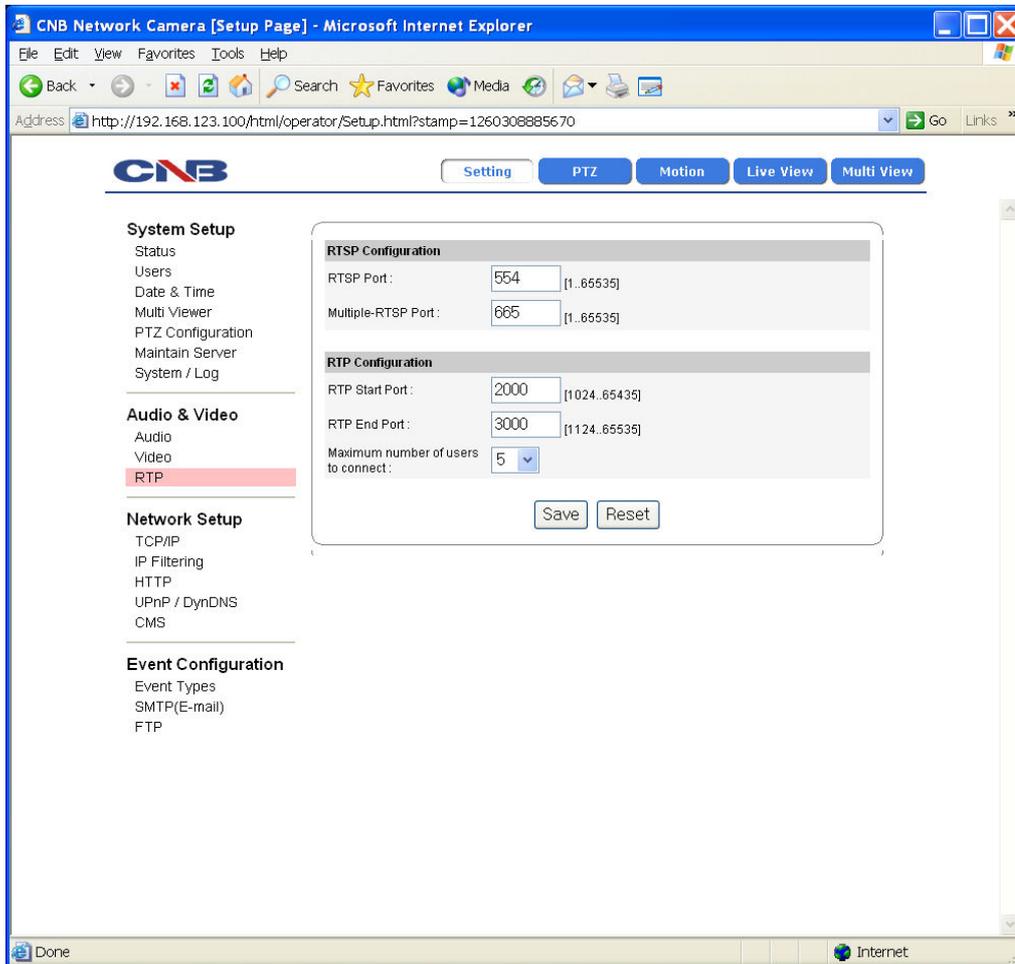


ITEM		DESCRIPTION
Main Stream	Resolution	Select a resolution of the video image. D1, CIF(320x240) <Default : D1>
	Codec	Selects Video Codec. You can choose among MJPEG, MPEG4 and H.264.
	Enable Dual-Codec	Turn Sub Stream feature on or off. <Default : Disable> Sub Stream output is in MJPEG with maximum 15 frame per second. When configuring, select main Stream or Sub Stream in the index page. "Enable Dual-Codec checkbox" is enabled when Codec is set Up as MPEG4 or H.264.
Frame Rate Control	Frame rate	Selects Frame rate of Video output. 1~30 Frame .
MJPEG Appearance	Quality	Select MJPEG's video quality between 10 and 100.
Mpeg4&H.264 Appearance	Bit rate	Selects bit rate for MPEG4 or H.264 video signal between 128kbps and 3Mbps.
Sub Stream	Resolution	Select resolution of sub stream video between D1 and CIF.
Frame Rate Control	Frame rate	Select Frame rate of sub stream video between 1 and 15 frames per Second
MJPEG Appearance	Quality	Select sub stream video quality between 10 and 100.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring RTP/RTSP

- This is related to XPEED-XNET's DDNS server information.

Click [RTP/RTSP] button to open the page shown in below figure.

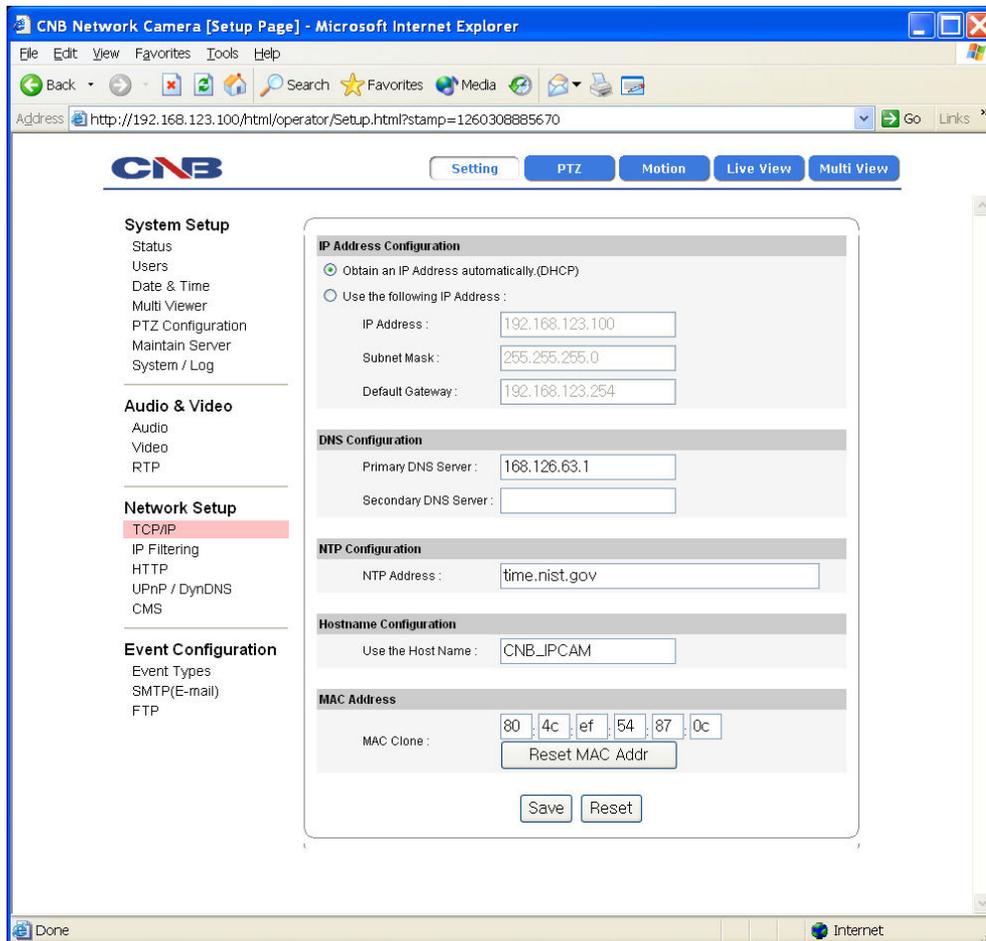


ITEM		DESCRIPTION
RTSP Configuration	RTSP Port	Enter RTSP Port of the Main Stream between 1 and 65535. The default is 554.
	Multiple-RTSP Port	Enter RTSP Port of the Sub Stream between 1 and 65535. The default is 665.
RTP Configuration	RTP Start Port	Enter RTP Start Port between 1024 and 65534. The default is 2000.
	RTP End Port	Enter RTP End Port between 1124 and 65535. The default is 3000.
	Maximum number of Connection	Enter the maximum allowable number of users connected to the Stream between 1 and 10.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring the Network (TCP/IP) parameters

- This configures XPEED-XNET's network related parameters.

Click [TCP/IP] button to open the page shown in below figure.

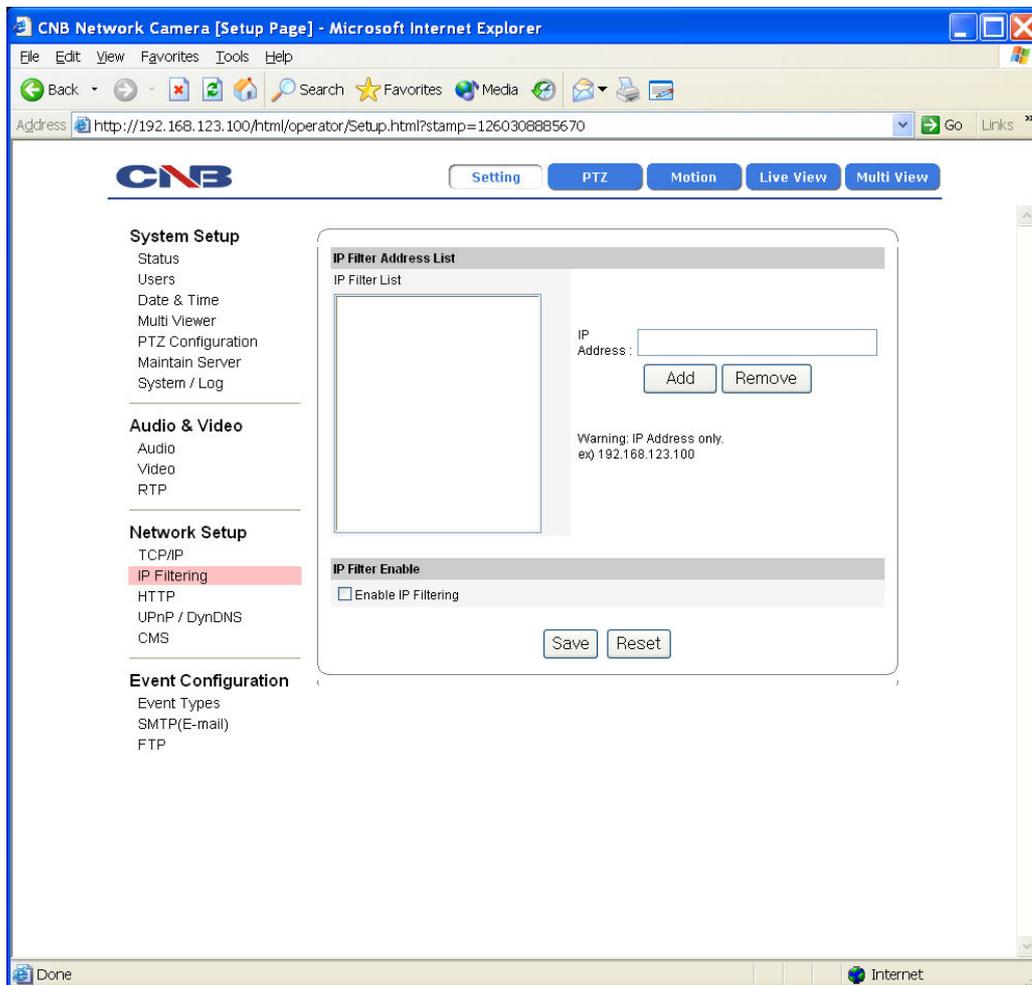


ITEM		DESCRIPTION
IP Address Configuration	Enable DHCP (default)	Turns DHCP on or off. Check DHCP checkbox to get an IP address automatically from the Network using DHCP protocol. Obtained IP address can be viewed by IP Installer. (Note) If the network does not use DHCP server, the product will wait for server's response for two minutes and restart with its previous IP Address.
	IP address	Enter an IP address. Configure IP address after checking IP address range configuration of the router where the XPEED-XNET product is connected.
	Subnet mask	Enter Subnet mask. Use this when you want to access only from the same subnet by Masking out upper portion of the IP address. Use 255.255.255.255 when you want to connect from on PC only.
	Default gateway	Enter the address of Default gateway.
DNS Configuration	Primary DNS Server	Enter primary DNS address.
	Secondary DNS Server	Enter secondary DNS address.
NTP Configuration	NTP address	Enter address of NTP (Network Time Protocol Server). NTP server is used when "Synchronize to NTP Server" is selected in Date&Time page.
Host name Configuration	User the host name	Enter Host name.
MAC Address	MAC Clon	Enter Ethernet Address.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring IP Filtering

- This configures IP Filters for XPEED-XNET product.

Click [IP Filtering] button to open the page shown in below figure.

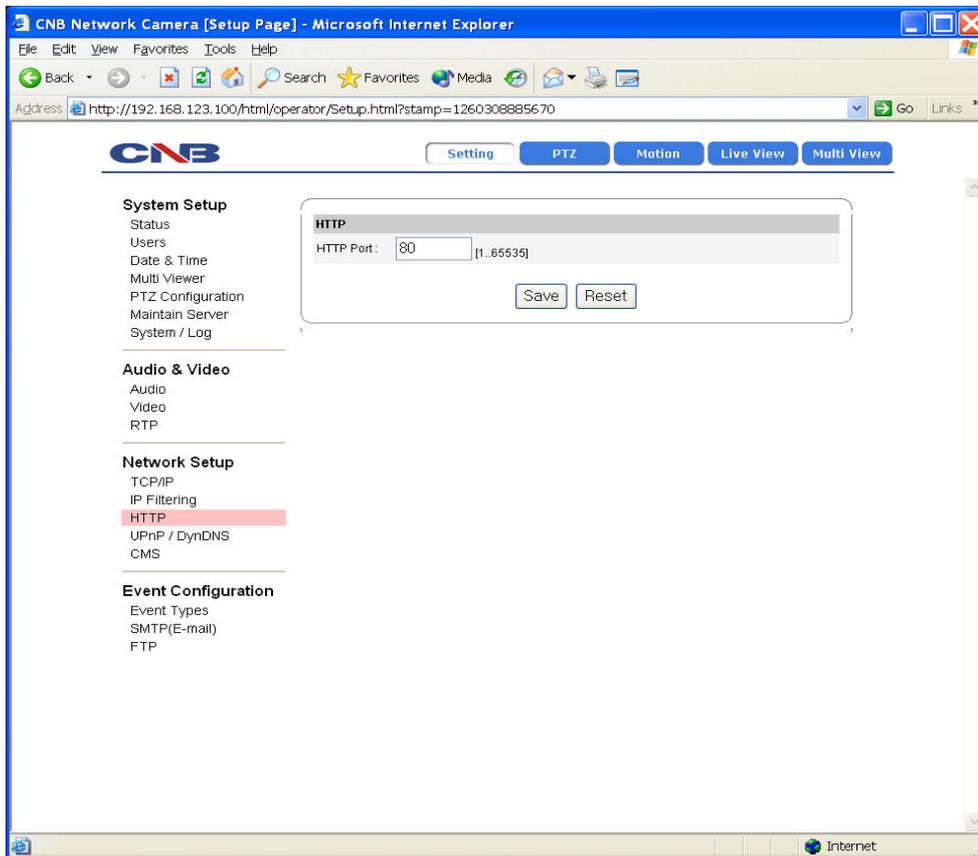


ITEM		DESCRIPTION
Filter IP Addresses	-	Displays list of current established IP Filters.
Add	-	<p>Adds an IP address to filter out.</p> <p>Enter the IP Address to block and click add button to add it to IP Filtering list box.</p> <p>The updated list can be viewed in IP Address List box.</p> <p>- Up to 20 IP addresses can be added.</p>
Remove	-	<p>Removes an IP address from IP Filtering List box.</p> <p>Select the IP address to remove and click Remove button to remove it from the list.</p> <p>The updated list can be viewed in IP Address List box.</p>
IP Filter Enable	Enable IP Filtering	<p>Turns the IP Filter on or off.</p> <p>When turned on, XPEED-XNET product will not be accessed from the IP Addresses in IP Filtering List box.</p>
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring HTTP

- This configures HTTP port to access XPEED-XNET's webpage.

Click [HTTP] button to open the page shown in below figure.



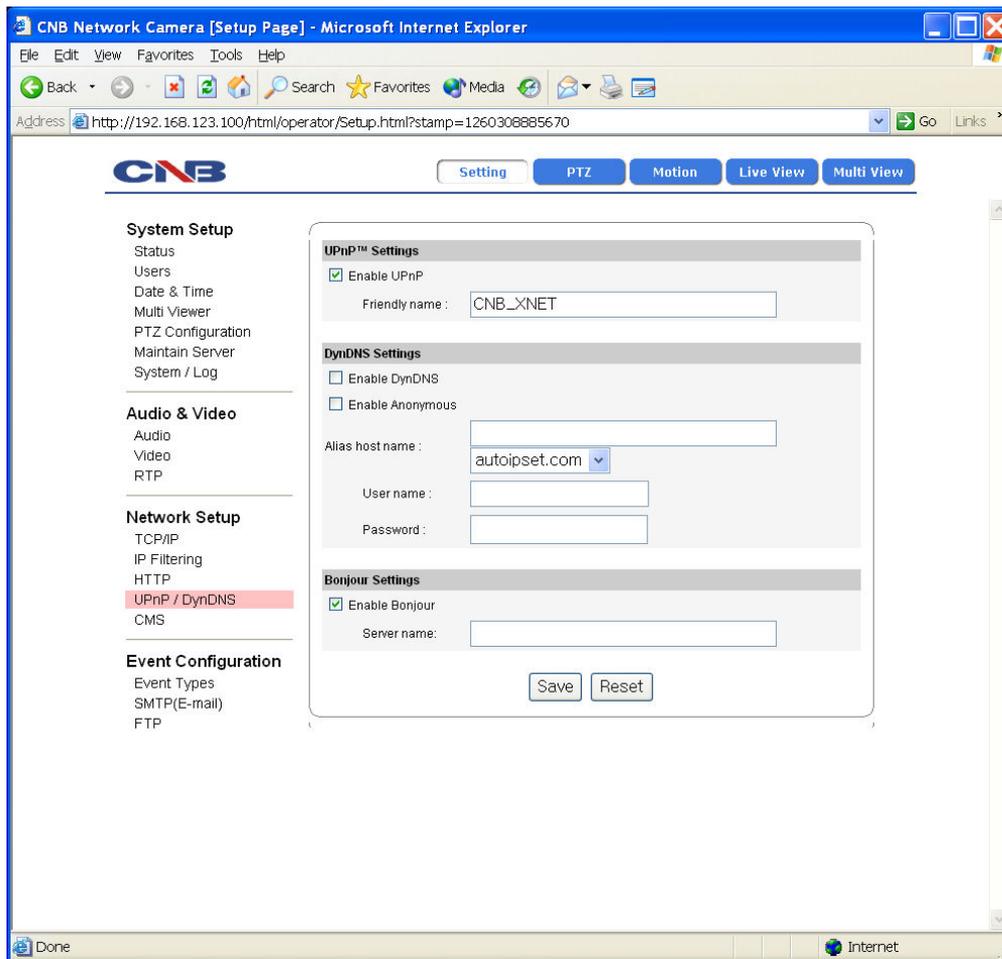
ITEM		DESCRIPTION
HTTP	HTTP port	Enter HTTP Port to access the webpage. Default port is 80, and any other port number has to be entered at the end of the ip address when accessing. (Ex: When using HTTP Port 8080, enter http://192.168.123.100:8080)
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring UPnP/DynDNS/Bonjour

- UPnP is a protocol for IP installer software, You can enable or disable this UPnP, and you can also use a Friendly Name.

DynDNS configures XPEED-XNET's DDNS server information.

Click [UPnP/DynDNS] to open the page shown in below figure.

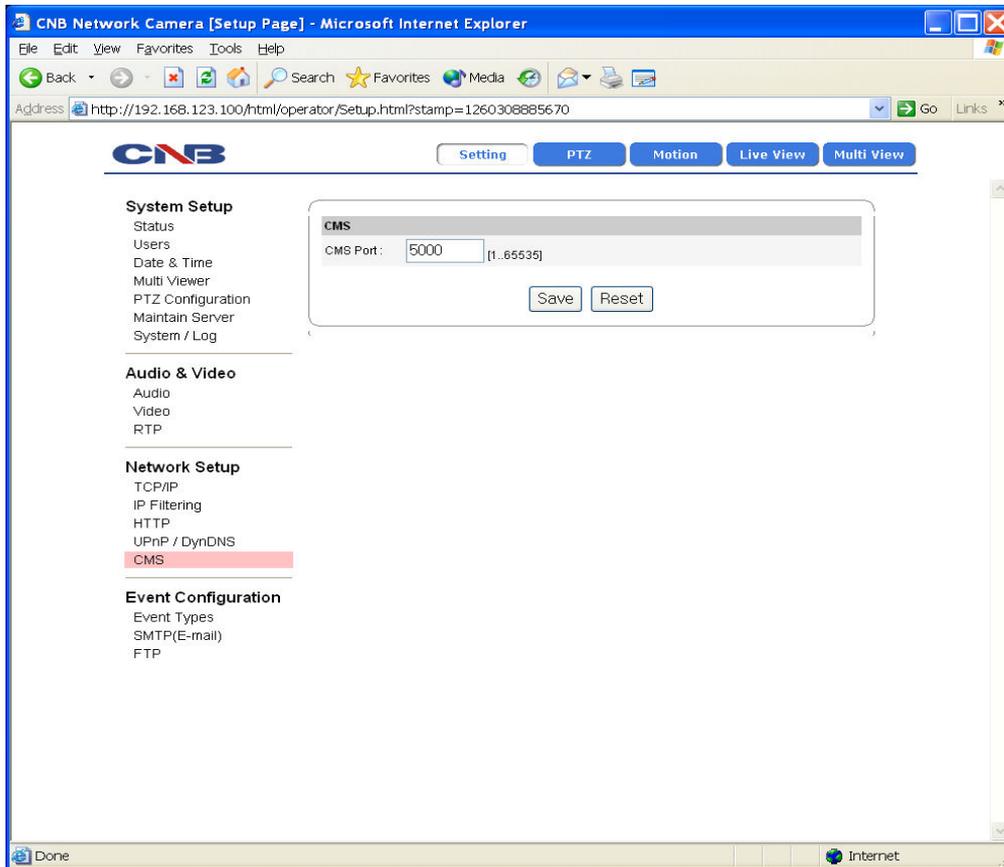


ITEM		DESCRIPTION
UpnP Setting	Enable UPnP	Enables or disables UPnP. When enabled, you can IP installer's XPEED-XNET Auto Search feature.
	Friendly Name	Enter UPnP's Friendly Name.
DynDNS Setting	Enable DynDNS	Enables or disables DynDNS. When enable, you can automatically obtain a domain from DDNS Server
	Enable Anonymous	Enables or disables DynDNS Anonymous feature. When enabled, DDNS service is used without going through authentication at Autoipset.com DDNS server.
	Alias Host Name	Enter a Host Name for the DynDNS server.
	User Name	Enter a user Name for the DynDNS server.
	Password	Enter a password for the DynDNS server.
Bonjour Setting	Enable Bonjour	Enables or disables Bonjour. When enabled, you can use IP installer's XPEED-XNET Auto Search feature.
	Server Name	Enter Bonjour's Server Name.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring CMS

- This configures XPEED-XNET's CMS Server information.

Click [CMS] to open the page shown in below figure.

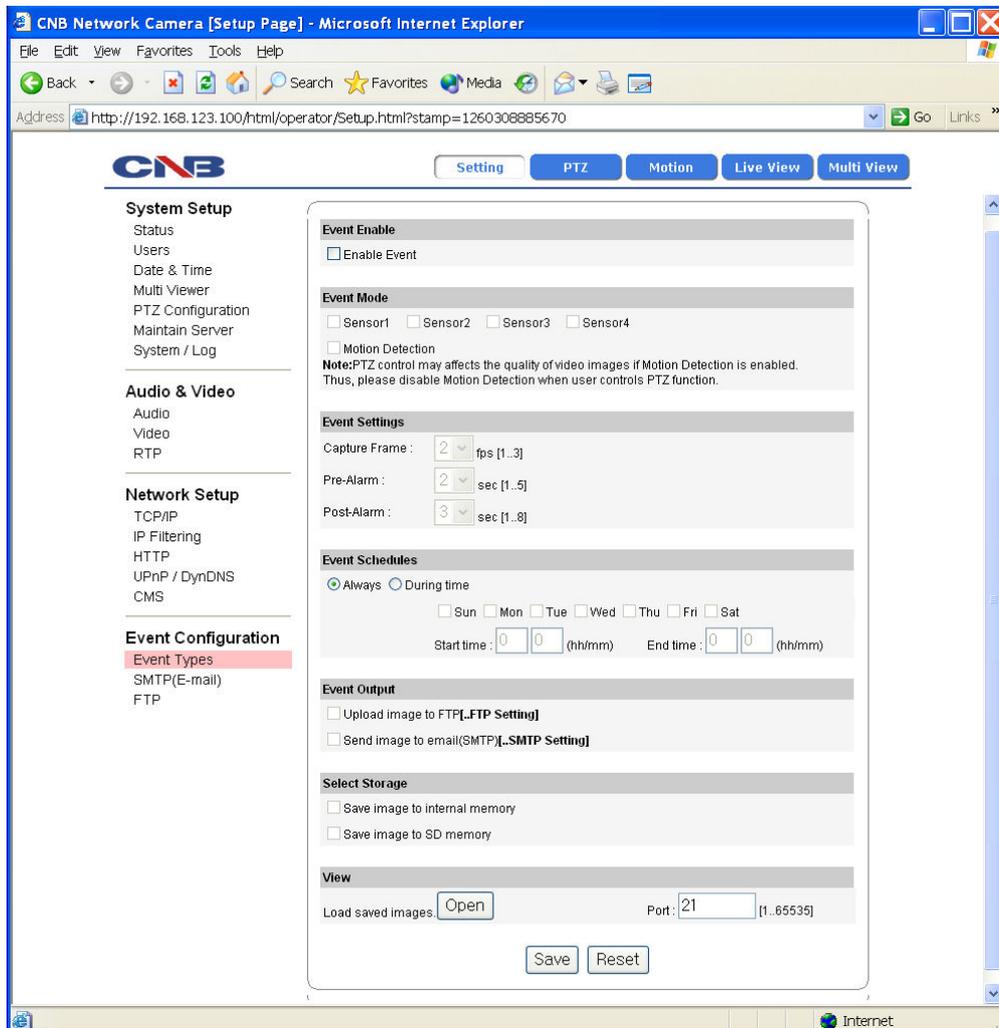


ITEM		DESCRIPTION
CMS	CMS Port	Enter CMS port number for communication with CMS between 1 and 65535. The default is 5000.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring Event Type

- This configures XPEED-XNET's Event Types.

Click [Event Types] to view page shown in below figure.

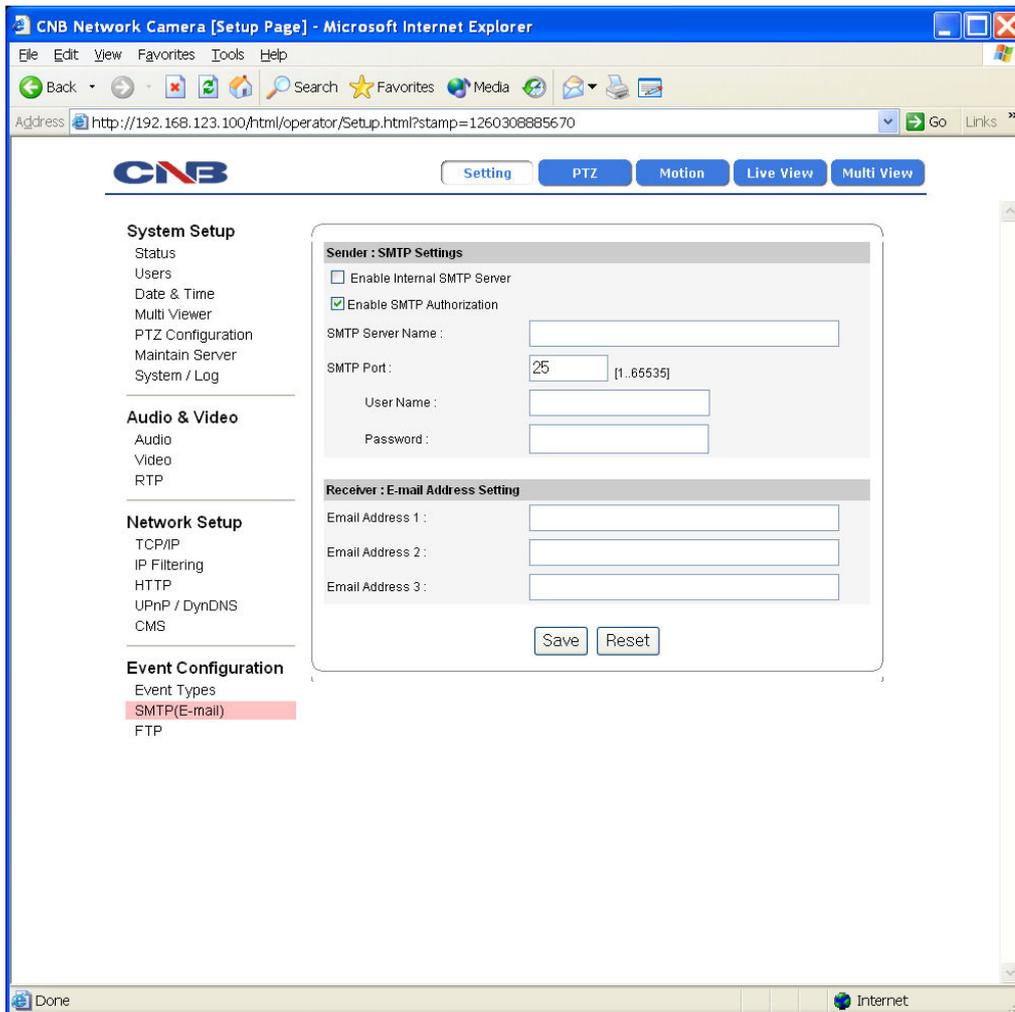


ITEM		DESCRIPTION
Event Enable	Enable Event	Enables or disables event processing. <Default : Disable>
Event Mode	Sensor	Enables or disables the Alarm sensor.
	Motion Detection	Enables or disables Motion Detection.
Event Setting	Capture Frame	When processing an event, this establishes the number of images to be saved per second. It can be selected between 1 and 3.
	Pre-Alarm	When processing an event, this establishes saving images before the occurrence of the event. It can be between 1 and 5 seconds before the event, and the number of the images to be saved gets determined by the Capture Frame rate.
	Post-Alarm	When processing an event, this establishes saving images after the occurrence of the event. It can be between 1 and 8 seconds after the event, and the number of the images to be saved gets determined by the Capture Frame rate.
Event Schedules	Event Schedules	Enables or disables scheduled event monitoring. When always is selected while Event (Alarm) is activated, the unit will monitor event (Alarm) all the time. During Time is selected while Event (Alarm) is activated, the unit will monitor event (Alarm) during the time period specified.
	Event Schedules Setting	Specify schedule for Event (Alarm) monitoring. Event (Alarm) is monitored according to the schedule specified here.
Event Output	Upload image to FTP	This allows Alarm images to be uploaded to an FTP server when processing an event. The client PC has to run FTP server to receive the Images and the information of the FTP server has to be accurately entered and saved at the FTP Configuration page.
	Send Image to Email	This allows Alarm images to be saved in the internal memory. Saved image can get transferred to the client's PC by using save image button at system configuration page.
Select Storage	Save Image to Internal Memory	This allows Alarm images to be sent out by an e-mail when processing an event. Only one image file at the moment of the event gets sent out. The e-mail address has to be accurately entered and saved at SMTP configuration page.
	Save Image to SD Memory	Not supported.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ SMTP Setup

- This configures mailing out method of Alarm Images once 'event' occurred in the XPEED-XNET system.

Click [SMTP] button to open the page shown in below figure.

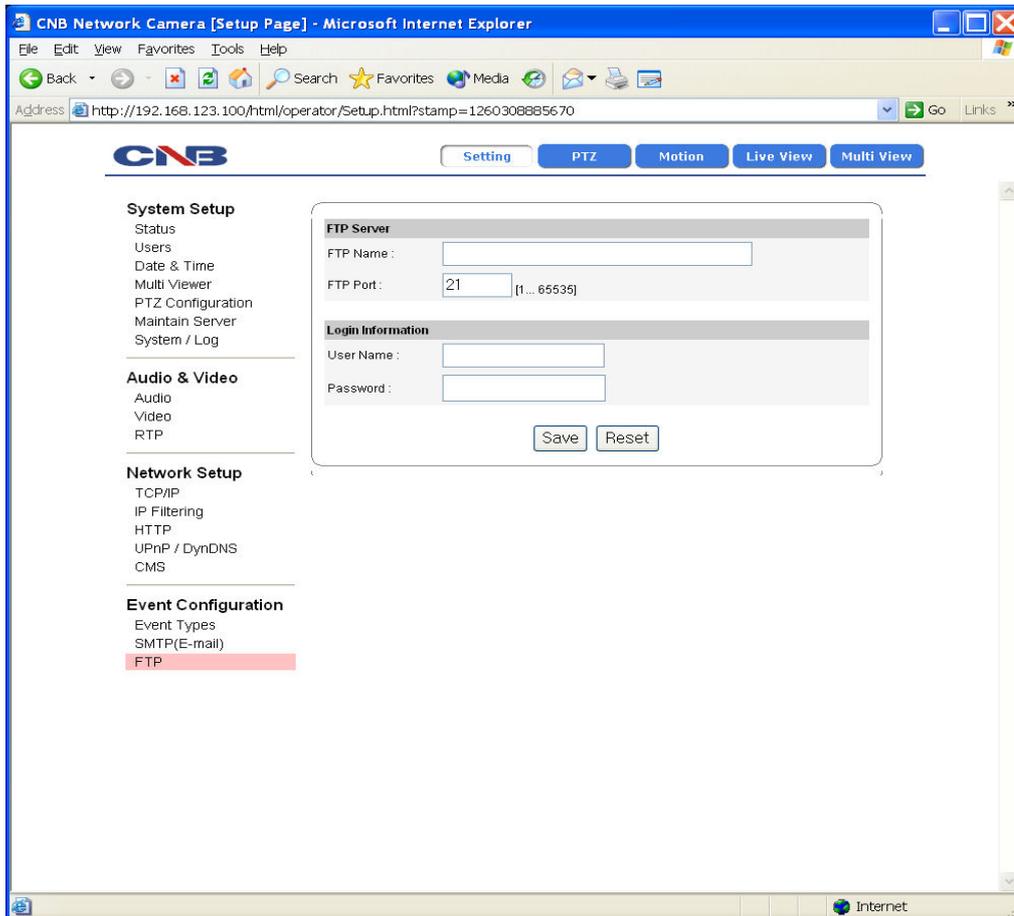


ITEM		DESCRIPTION
SMTP Settings	Enable Internal SMTP Server	Turns internal SMTP Server on or off. When this box is checked, Alarm Image gets mailed out through an internal mail server. Mail Authentication cannot be used in this mode. When this box is unchecked, Alarm Image gets mailed out through an external mail server. Mail Authentication, port, user. Password, mail address, etc needs to be configured.
	Enable SMTP Authorization	Enables or disables the use of SMTP authorization when using external mail server.
	SMTP Server Name	Enter the name of external mail server.
	SMTP Port	Enter the port number for the external mail server.
	User name	Enter the use name of the external mail server.
	Password	Enter the password of the external mail server user.
E-mail Address Setting	Email Address	Enter the e-mail address of the external mail server user.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ FTP Setup

- This configures how the Alarm Images get sent out using FTP once 'event' occurred in the XPEED-XNET's system.

Click [FTP] button to open the page shown in below figure.

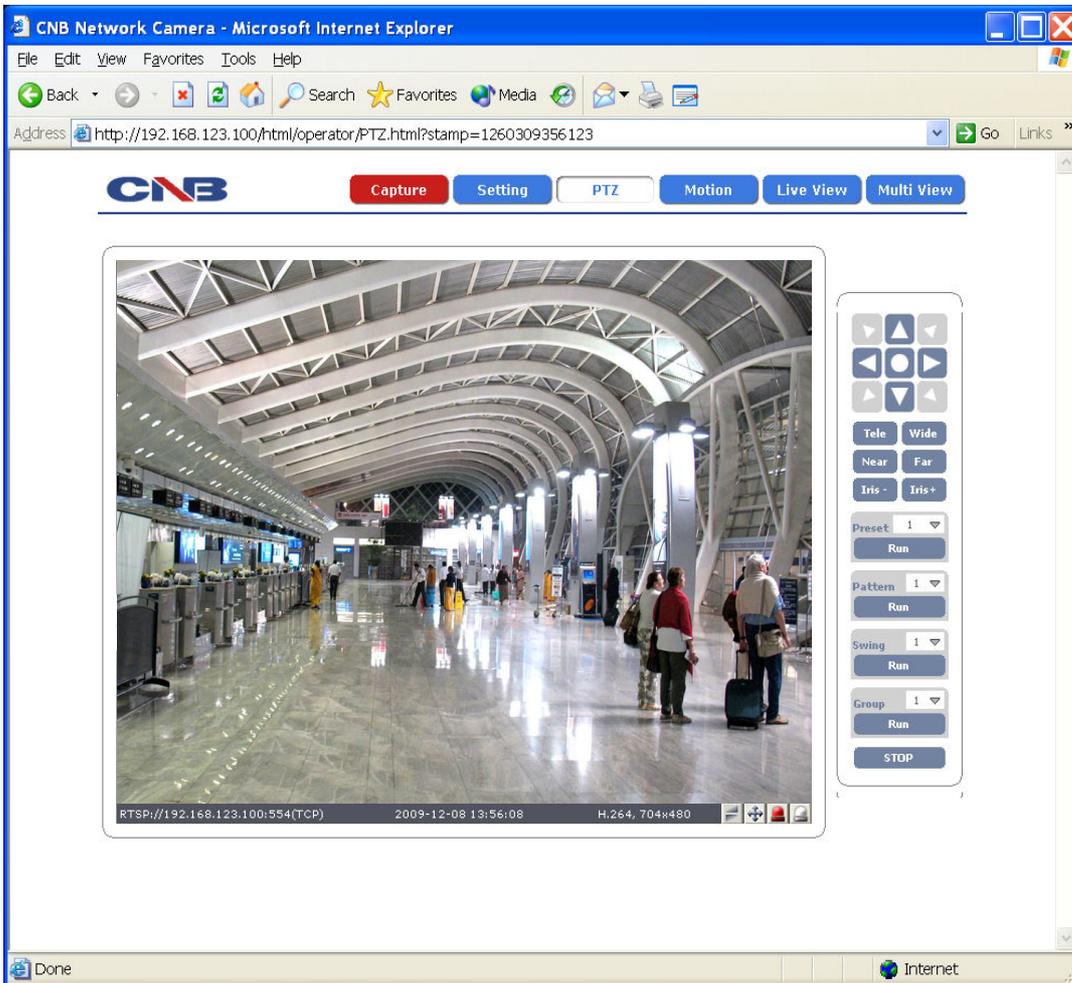


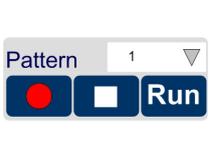
ITEM		DESCRIPTION
FTP Server	FTP Name	Enter the address of the FTP server to send Alarm Images to in the event processing. The client PC at that IP address has to run the FTP server in order to receive the Alarm Images.
	FTP Port	Enter the port number for the FTP server to send Alarm Images to in the event processing.
Login Information	User Name	Enter the user name of the FTP server to send Alarm Images to in the event processing.
	Password	Enter the password of the FTP server to send Alarm Images to in the event processing.
Save	-	Applies and saves changes.
Reset	-	Recalls previously saved configurations.

■ Configuring and operating PTZ

- This controls XPEED-XNET's PTZ movement.

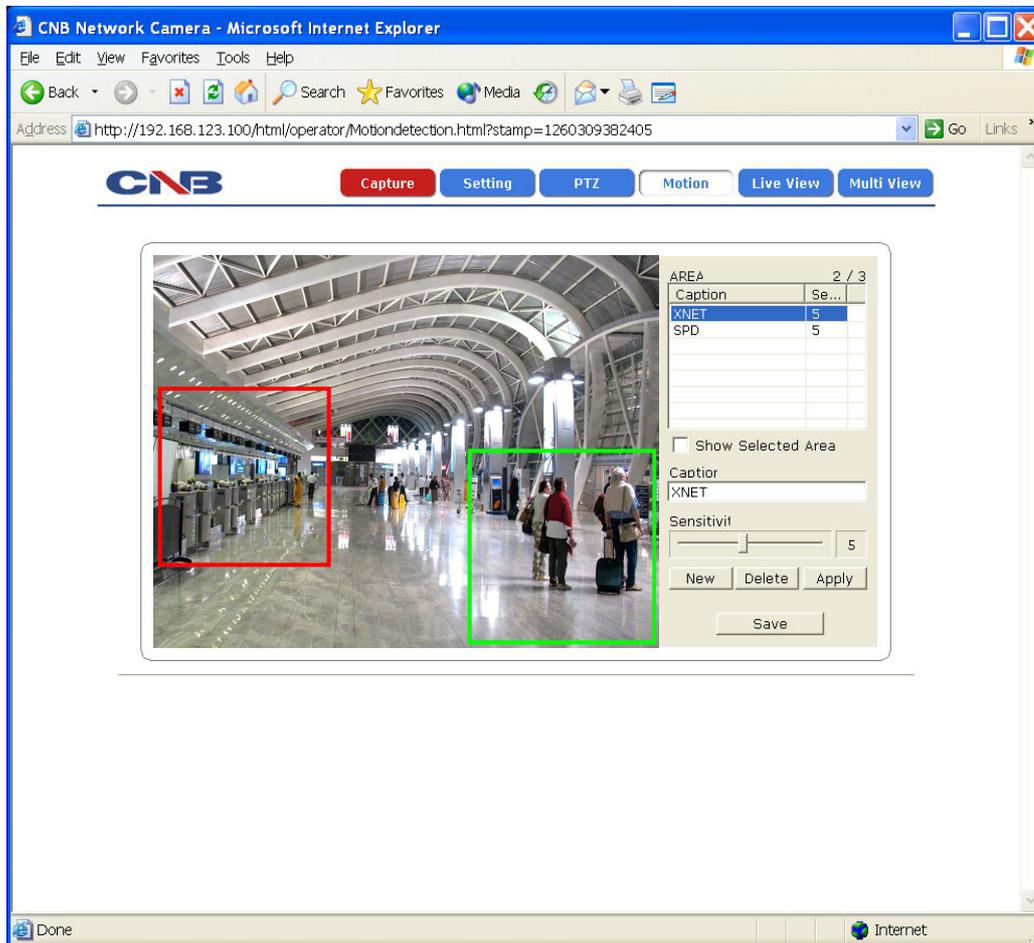
Click [PTZ] button in Operator mode to open the page shown in below figure.



ITEM	DESCRIPTION	
	Direction Key	Moves camera up/down/left/right.  Moves Origin.
	Tele/Wide	Tele : Executes Tele zoom. Wide : Executes Wide zoom.
	Near/Far	Near : Executes Focus Near. Far : Executes Focus Far.
	Iris-/Iris+	Iris- : Executes Iris Close. Iris+ : Executes Iris Open.
	set	The current position is set to Preset No.
	del	Current preset NO. is deleted.
	go	The camera moves to the specified Preset position.
		Start pattern recording.
		Save and Stop pattern.
		Run pattern.
	-	Desired Swing is executed.
	-	Desired Group is executed.
		Preset/Pattern/Swing/Group operation are stopped.

■ Configuring Motion Detection area

- This defines areas that detect motion and up to three different areas can be defined in each channel.
Click [Motion] button in Administrator and Operator mode to open the page shown in below figure.



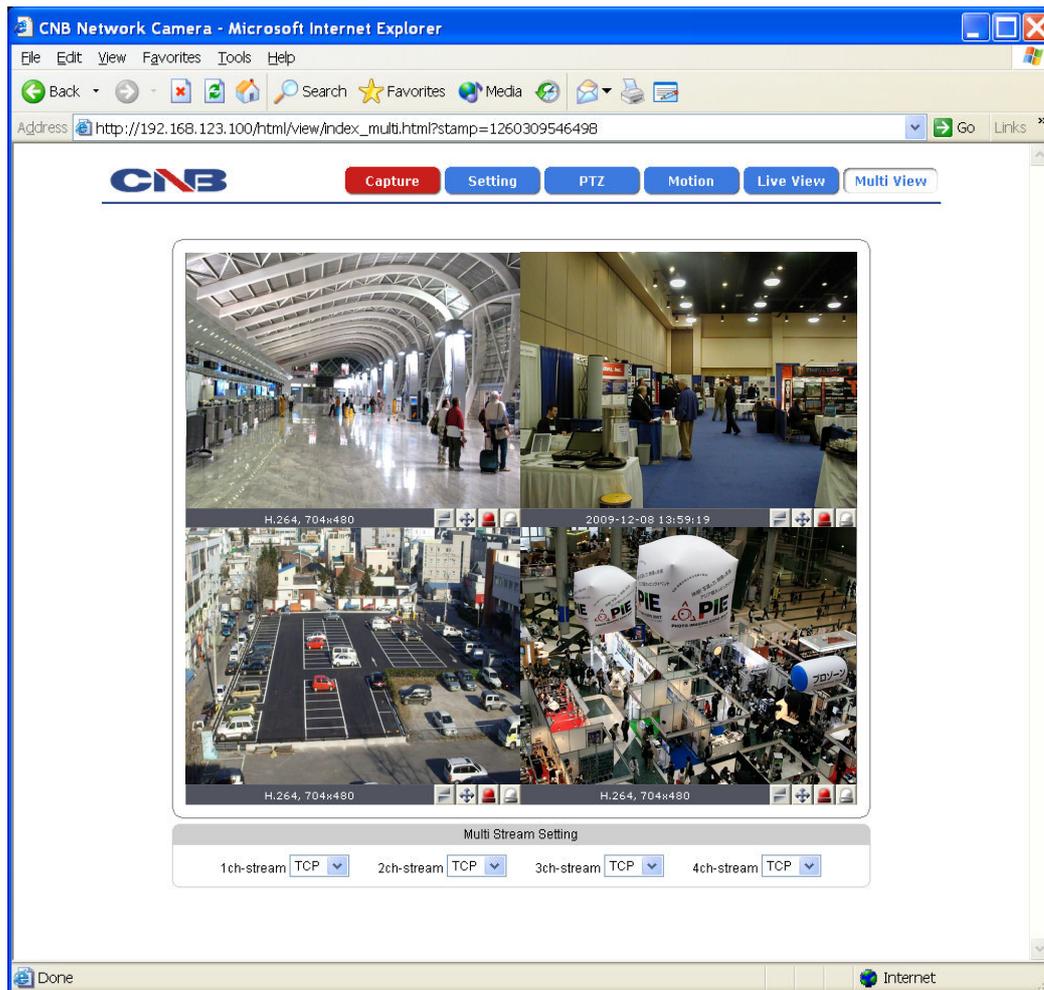
ITEM		DESCRIPTION
Area		<p>Displays currently defined Motion Detection area.</p> <p>When an area is selected from the list, its defined area gets displayed and highlighted in viewer window.</p> <p>Up to 3 motion detection area can be defined.</p>
Show Select area		When this is checked, only the selected area gets displayed in viewer window.
Caption		Enter designation for each area.
Sensitivity		<p>Sets sensitivity for detection motions. "1" being the least sensitive and "10" being the most sensitive. The user needs to configure this according to their applications and circumstances.</p>
Defining Motion Detection Area		<ol style="list-style-type: none"> 1. Enter a designation in the caption bar and set sensitivity. 2. Click "Add" button. 3. A square with the designation you've just defined will appear in viewer window. 4. The size of the square can be adjusted by clicking and dragging its lower right corner and the position can be adjusted by dragging the square. 5. Click "Save" button once you are done defining the areas.

■ Configuring Multi View Option

- This configures viewing of up to 4 different camera images simultaneously.

Click [Multi View] button to open the page shown in below figure.

The video from the XPEED-XNET product gets displayed on top left and the rest display video signals coming from the IP addresses defined in the Multi-Viewer Setup page.



■ Starting OSD Menu

- Function Using the OSD menu, Preset, Pattern, Swing, Group and Alarm Input function can be configured for each application.
- Enter Menu Menu On Key
- Exit Menu Menu Off Key
- Control Key Press **NEAR** key to save values and press **FAR** key to cancel values.

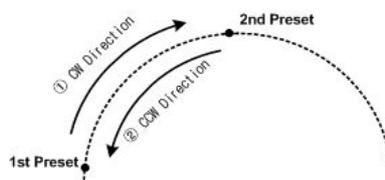
■ Preset

- Function Max. 127 positions can be stored as Preset position. The Preset number can be assigned from 1 to 128, but 95 is reserved for starting OSD menu.

Camera characteristics (i.e. White Balance, Auto Exposure) can be set up independently for each preset. Label should be blank and "Camera Adjust" should be set to "GLOBAL" as default. All characteristics can be set up in OSD menu.
- Set Preset <Set Preset> [1~128]
- Run Preset <Go Preset> [1~128]
- Delete Preset <Del Preset> [1~128]

■ Swing

- Function By using Swing function, you can make camera to move between 2 Preset positions repeatedly. When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW(Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW(Counterclockwise) direction.



In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, camera turns on its axis by 360° in CW(Clockwise) direction and then it turns on its axis by 360° in CCW(Counterclockwise) direction. Speed can be set up from 1°/sec to 180°/sec.

- Set Swing To set Swing, use OSD menu.
- Run Swing <Run Swing> [1~8]
- Delete Swing To delete Swing, use OSD menu.

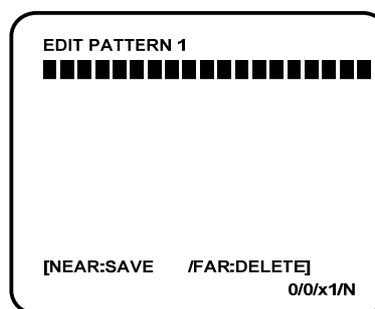
■ Pattern

- **Function** Pattern Function is that a camera memorizes the path (mostly curve path) by screen jog for assigned time and revives the path exactly as it memorized.
4 Patterns are available and Maximum 1200 communication commands can be stored in a pattern.

- **Set Pattern** Pattern can be created by one of following two methods.

Method 1) <Set Pattern> [Pattern NO.]

- Pattern editing screen is displayed as bellow.



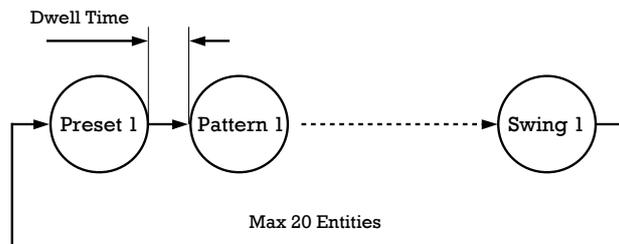
- Movement by direction key and preset movement can be memorized in a pattern.
- The rest memory size is displayed in progress bar.
- To save the recording, press **NEAR** key and to cancel, press **FAR** key.

Method 2) OSD Using OSD Menu: See the section "How to use OSD Menu".

- **Run Pattern** <Run Pattern> [1~4]
- **Delete Pattern** To delete Pattern, use OSD menu.

■ Group

- **Function** The group function allows running sequence of Presets, Pattern and/or Swings. Max 8 group can be stored. Each group can have max 20 action entities which can be preset, pattern or swing. Preset speed can be set up and the repeat number of Pattern & Swing can be set up in Group setup. Dwell time between actions can be set up also.



- **Set Group** Use OSD Menu to create a Group.
- **Run Group** <Run Group> [1~8]
- **Delete Group** To delete Group, use OSD menu.

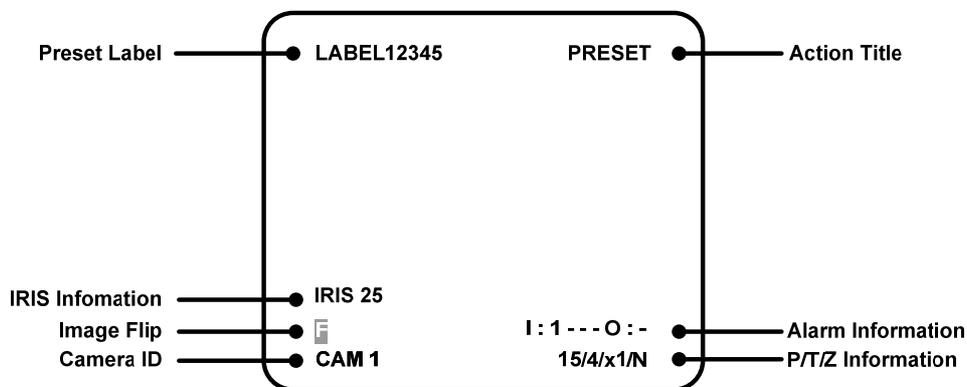
■ Other Functions

- **Power Up Action** This function enables to resume the last action executed before power down. Most of actions such as Preset, Pattern, Swing and Group are available for this function but Jog actions are not available to resume.
- **Auto Flip** In case that tilt angle arrives at the top of tilt orbit (90°), zoom module camera keep moving to opposite tilt direction (180°) to keep tracing targets. As soon as zoom module camera passes through the top of tilt direction(90°), images should be reversed automatically and **F** appears in screen. If this function is set to OFF, tilt movement range is 0 ~ 95°.
- **Parking Action** This function enables to locate the camera to specific position automatically if operator doesn't operate the Viewer for a while. The Park Time can be defined as an interval from 1 minute to 4 hours.
- **Alarm Input** 4 Alarm Inputs are used. If an external sensor is activated, camera can be set to move to corresponding preset position. It is noted that the latest alarm input is effective if multiple sensors are activated.
- **Privacy Zone Mask** To protect privacy, Max. 4 Privacy Masks can be created on the arbitrary position to hide objects such as windows, shops or private house. With Spherical Coordinates system, powerful Privacy Zone Mask function is possible.
- **GLOBAL/LOCAL Image Setup** WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu. The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location.

During jog operation, Global WB/AE value should be applied. All Local WB/AE value do not change although Global WB/AE value changes.
- **SemiAuto Focus^{*1)}** This mode exchanges focus mode automatically between Manual Focus mode and Auto Focus mode by operation. Manual Focus mode activates in preset operation and Auto Focus mode activates during jog operation. With Manual mode at presets, Focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at a preset. It should shorten time to get focuses.

Focus mode changes to Auto Focus mode automatically when jog operation starts.

■ OSD Display of Main Screen



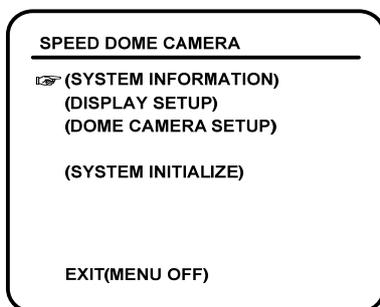
- P/T/Z Information Current Pan/Tilt angle in degree, zoom magnification and a compass direction.
- Camera ID Current Camera ID(Address).
- Action Title Followings are possible Action Titles and their meaning.

"SET PRESET xxx"	When Preset xxx is stored
"PRESET xxx"	When camera reach to Preset xxx
"PATTERN x"	When Pattern x is in action
"SWGx/PRESET xxx"	When Swing x is in action
"UNDEFINED"	When undefined function is called to run
- Preset Label The Label stored for specific Preset.
- Alarm Input This information shows current state of Alarm Input. If an Input point is **ON** state it will show a number corresponding to each point. If an Input point is **OFF** state, '-' will be displayed.
 Ex) Point 2 & 3 of inputs are **ON**, OSD will show as below
- Image Flip Shows that images are currently reversed by Auto Flip Function.
- IRIS Information This information shows current iris value.

■ General Rules of Key Operation for Menu

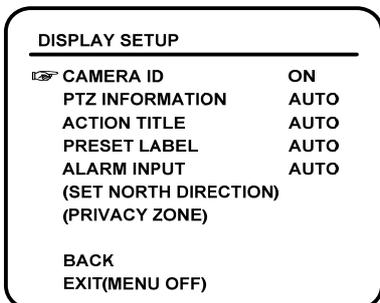
- The menu items surrounded with () always has its sub menu.
- For all menu level, to go into sub menu, press **NEAR** key.
- To go to up-one-level menu, press **FAR** key.
- To move from items to item in the menu, use the **UP/DOWN /LEFT/RIGHT** key.
- To change a value of an item, use **UP/DOWN** key.
- Press **NEAR** key to save values and Press **FAR** key to cancel values.

■ Main Menu



- **SYSTEM INFORMATION** Displays system information and configuration.
- **DISPLAY SETUP** Enable/Disable of OSD display on Main Screen.
- **DOME CAMERA SETUP** Configure various functions of this camera.
- **SYSTEM INITIALIZE** Initializes system configuration and sets all data to factory default configuration.

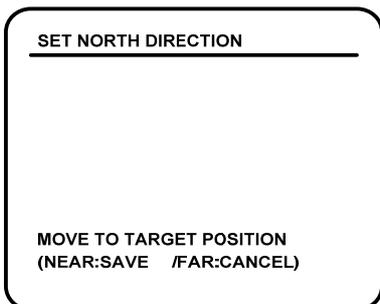
■ Display Setup



This menu defines Enable/Disable of OSD display on Main Screen. If an item is set to be AUTO, the item is displayed only when the value of it is changed.

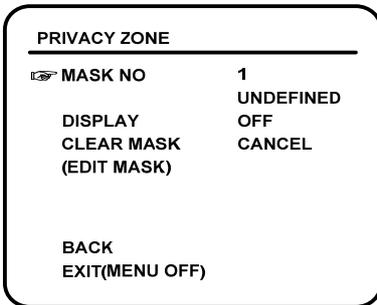
- CAMERA ID [ON/OFF]
- PTZ INFORMATION [ON/OFF/AUTO]
- ACTION TITLE [ON/OFF/AUTO]
- PRESET LABEL [ON/OFF/AUTO]
- ALARM INPUT [ON/OFF/AUTO]

■ Compass Direction Setup



Set North to assign compass direction as criteria. Move camera and press **NEAR** button to save.

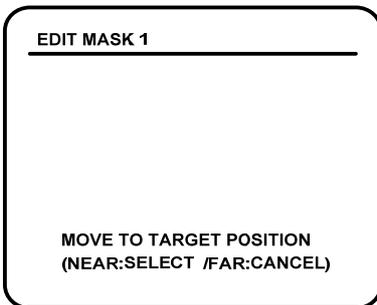
■ Privacy Zone Mask Setup



Select area in image to mask.

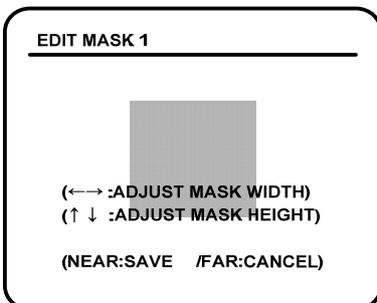
- MASK NO [1~4]
Select Mask number. If the selected mask has already data, camera moves as it was set. Otherwise, "UNDEFINED" will be displayed under "Mask NO".
- DISPLAY [ON/OFF]
Sets if camera makes mask shows or not on images.
- CLEAR MASK [CANCEL/OK]
Deletes data in the selected mask NO.

■ Privacy Zone Area Setup



Move camera to area to mask. Then the menu to adjust mask size will be displayed.

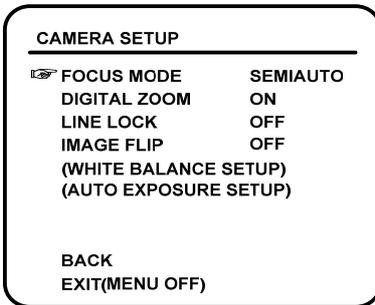
■ Privacy Zone Size Adjustment



Adjust mask size. Use direction keys to adjust mask size.

- ←→ (Left/Right) Adjusts mask width.
- ↑↓ (Up/Down) Adjusts mask height.

■ Camera Setup



Setup the general functions of 10x zoom camera module.

● FOCUS MODE [AUTO/MANUAL/SEMIAUTO]

Sets camera focus mode.

○ SEMIAUTO Mode

This mode exchanges focus mode automatically between Manual Focus mode and Auto Focus mode. Manual Focus mode activates in preset operation and Auto Focus mode activates when jog operation starts.

With Manual mode at presets, Focus data is memorized in each preset in advance and camera calls focus data in correspondence with presets as soon as camera arrives at a preset.

● DIGITAL ZOOM [ON/OFF]

Sets digital zoom function to ON/OFF. If this is set to OFF, optical zoom function runs but zoom function stops at the end of optical zoom magnification.

● LINE LOCK [ON/OFF]

If Line lock sync is ON, video signal is synchronized with AC power. Video can be fluctuated after setting is changed.

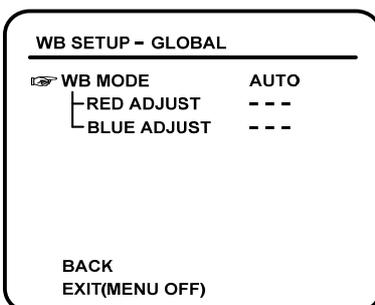
(Supported AC model Only).

● IMAGE FLIP [ON/OFF]

If IMAGE FLIP is ON, Current image is reversed.

If IMAGE FLIP is OFF, Reversed image will recover to previous status.

■ White Balance Setup



● WB MODE [AUTO/MANUAL]

In Manual mode, Red and Blue level can be set up manually

● RED ADJUST [10~60]

● BLUE ADJUST [10~60]

■ Auto Exposure Setup

AE SETUP - GLOBAL	
☞ BACKLIGHT	OFF
DAY/NIGHT	(AUTO2)
BRIGHTNESS	25
IRIS	AUTO
SHUTTER	ESC
AGC	HIGH
SSNR	MIDDLE
SENS-UP	(AUTO)
BACK	
EXIT(MENU OFF)	

- **BACKLIGHT** [ON/OFF]
Sets Backlight Compensation
- **DAY/NIGHT** [AUTO1/AUTO2(0~255)/DAY/NIGHT]
AUTO1 exchanges Day/Night mode faster than AUTO2. You are able to adjust Day/Night sensitive level if you have selected AUTO2 mode. If Day&Night sensitive level has the higher value, it execute that change Day&Night in the lower luminance.
- **BRIGHTNESS** [0~100]
Adjusts brightness of images. Iris, Shutter Speed and Gain are adjusted automatically in correspondence with this value.
- **IRIS** [AUTO/MANUAL(0~100)]
If Iris is set to Auto, Iris should have highest priority in adjusting AE and Shutter Speed should be fixed.
If Iris is set to Manual, Iris should be fixed and Iris has lower priority in adjusting AE, in comparison with others.
- **SHUTTER** [ESC/A.Flicker/Manual(×128~1/120000 sec)]
If Iris is set to Manual and Shutter Speed is set to ESC, Shutter Speed should have highest priority. If Shutter Speed is set to A.Flicker, to remove Flicker, Shutter Speed should be set to 1/100 sec. for NTSC and 1/120 for PAL.
- **AGC** [OFF/NORMAL/HIGH]
Enhances image brightness automatically in case that luminance level of image signal is too low.
- **SSNR** [OFF/LOW/MIDDLE/HIGH]
Enhances images by deducting noises when gain level of images is too high.
- **SENS-UP** [AUTO(2~128)/OFF]
Activates Slow Shutter function when luminance of image (signal) is too dark.
It is possible to set up the maximum number of frames piled up one on another by Slow Shutter

■ Motion Setup

MOTION SETUP	
☞ MOTION LOCK	OFF
PWR UP ACTION	ON
AUTO FLIP	ON
JOG MAX SPEED	120/SEC
JOG DIRECTION	INVERSE
FRZ IN PRESET	OFF
(PARKING ACTION SETUP)	
(ALARM INPUT SETUP)	
BACK	
EXIT(MENU OFF)	

Setup the general functions of Pan/Tilt motions.

- **MOTION LOCK** [ON/OFF]

If Motion Lock is set to ON, it is impossible to set up and delete Preset, Swing, Pattern and Group. It is possible only to run those functions. To set up and delete those functions, enter into OSD menu.
- **PWR UP ACTION** [ON/OFF]

Refer to "Other Functions" section.
- **AUTO FLIP** [ON/OFF]

Refer to "Other Functions" section.
- **JOG MAX SPEED** [1°/sec ~360°/sec]

Sets maximum jog speed. Jog speed is inversely proportional to zoom magnification. As zoom magnification goes up, pan/tilt speed goes down.
- **JOG DIRECTION** [INVERSE/NORMAL]

If you set this to 'Inverse', the view in the screen is moving same direction with jog tilting. If 'Normal' is selected, the view in the screen is moving reversely.
- **FRZ IN PRESET** [ON/OFF]

At start point of preset movement, camera starts freezing the image of start point. Camera keeps displaying the image of start point during preset movement and does not display the images which camera gets during preset movement. As soon as camera stops at preset end point, camera starts displaying live images which it gets at preset end point.

This function availability should be different by models.

■ Parking Action Setup

PARKING ACTION SETUP	
☞ PARK ENABLE	OFF
WAIT TIME	00:10:00
PARK ACTION	HOME
BACK	
EXIT(MENU OFF)	

If Park Enable is set to ON, camera runs assigned function automatically if there is no PTZ command during assigned "Wait Time".

- PARK ENABLE [ON/OFF]
- WAIT TIME [1 minute ~ 4 hour]
The time is displayed with "hh:mm:ss" format and you can change this by 1 min unit.
- PARK ACTION [HOME/PRESET/PATTERN/SWING/GROUP]
○ HOME
Camera moves to home position if there is no PTZ command during assigned "Wait Time".

■ Alarm Input Setup

ALARM INPUT SETUP	
☞ ALARM1 TYPE	N.OPEN
ALARM2 TYPE	N.OPEN
ALARM3 TYPE	N.OPEN
ALARM4 TYPE	N.OPEN
ALARM1 ACT	NOT USED
ALARM2 ACT	NOT USED
ALARM3 ACT	NOT USED
ALARM4 ACT	NOT USED
BACK	
EXIT(MENU OFF)	

Match the Alarm sensor input to one of Preset positions. If an external sensor is activated, camera will move to corresponding preset position when this item is predefined.

- ALARMx TYPE [Normal OPEN/Normal CLOSE]
Sets sensor input type.
- ALARMx ACT [NOT USED/PRESET 1~128]
Assign counteraction Preset position to each Alarm input.

■ Preset Setup

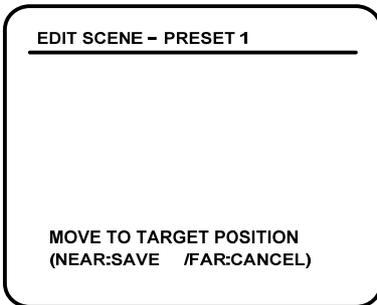
PRESET SETUP	
PRESET NO.	1
CLR PRESET (EDIT SCENE) (EDIT LABEL) CAM ADJUST	UNDEFINED CANCEL GLOBAL
BACK EXIT(MENU OFF)	

- PRESET NO [1~128]
If a selected preset is already defined, camera moves to pre-defined position and preset characteristics such as Label and Relay Outputs show on monitor. If a selected preset is not defined, "UNDEFINED" shows on monitor.
- CLR PRESET [CANCEL/OK]
Delete current Preset data
- EDIT SCENE
Redefine current Preset scene position (i.e. PTZ).
- EDIT LABEL
Edits Label to show on monitor when preset runs. MAX. 10 alphabets are allowed.
- CAM ADJUST [GLOBAL/LOCAL]
WB(White Balance) and AE(Auto Exposure) can be set up independently for each preset. There are 2 modes, "Global" mode & "Local" mode. The Global mode means that WB or AE can be set up totally and simultaneously for all presets in "ZOOM CAMERA SETUP" menu.

The Local mode means that WB or AE can be set up independently or separately for each preset in each preset setup menu. Each Local WB/AE value should activate correspondingly when camera arrives at each preset location. During jog operation, Global WB/AE value should be applied.

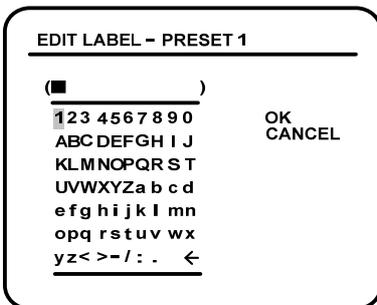
All Local WB/AE value should not change although Global WB/AE value changes. If "Local" is selected, Menu to set WB/AE shows on monitor.

■ Edit Preset Scene



- ① Using direction key, move camera to desired position.
- ② By pressing **NEAR** key, save current PTZ data.
- ③ Press **FAR** key to cancel.

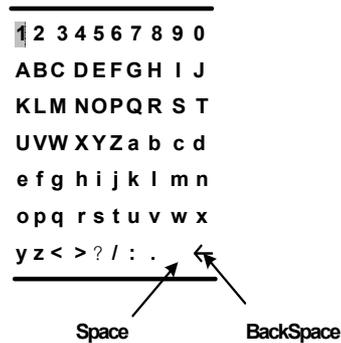
■ Edit Preset Label



- ① Edits label to show on monitor when camera arrives at presets. In Edit Label menu, a reverse rectangular is cursor. As soon as finishing selecting alphabet, cursor moves to the next digit.



- ② Using **LEFT/RIGHT/UP/DOWN** key, move to an appropriate character from the Character set. To choose that character, press the **NEAR** key.



If you want to use blank, choose Space character (" "). If you want to delete a character before, use back space character ("←").

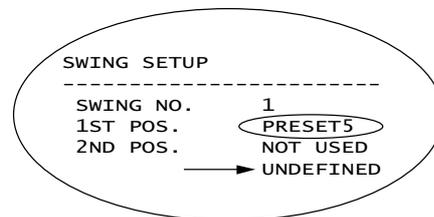
- ③ If you complete the Label editing, move cursor to "OK" and press **NEAR** key to save completed label. To abort current change, move cursor to "Cancel" and press **NEAR** key.

■ Swing Setup

SWING SETUP	
☞ SWING NO.	1
1ST POS.	NOT USED
2ND POS.	NOT USED
SWING SPEED	30/SEC
CLEAR SWING	CANCEL
BACK	
EXIT(MENU OFF)	

● **SWING NO** [1~8]
 Selects Swing number to edit. If a selected Swing has not defined, "NOT USED" is displayed in 1st Position and 2nd Position

● **1ST POS.** [PRESET 1~128]
2ND POS. Set up the 2 position for Swing function. If a selected preset is not defined, "UNDEFINED" will be displayed as shown below.

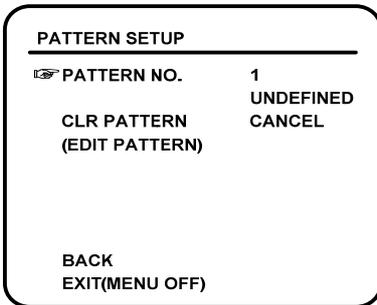


When swing function runs, camera moves from the preset assigned as the 1st point to the preset assigned as the 2nd point in CW(Clockwise) direction. Then camera moves from the preset assigned as the 2nd point to the preset assigned as the 1st point in CCW(Counterclockwise) direction. In case that the preset assigned as the 1st point is same as the preset assigned as the 2nd point, camera turns on its axis by 360° in CW direction and then it turns on its axis by 360° in CCW direction.

● **SWING SPEED** [1°/sec ~180°/sec]
 Sets Swing speed from 1°/sec to 180°/sec.

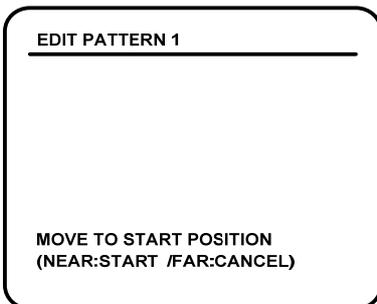
● **CLEAR SWING** [CANCEL/OK]
 Deletes current Swing data.

■ Pattern Setup

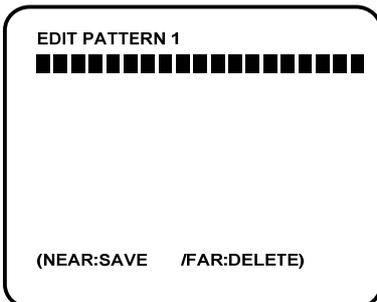


- **PATTERN NO** [1~4]
Selects Pattern number to edit.
If a selected pattern number is not defined, "UNDEFINED" will be displayed under selected pattern number.
- **CLR PATTERN** [CANCEL/OK]
Deletes data in current pattern
- **EDIT PATTERN** Starts editing pattern.

■ Edit Pattern

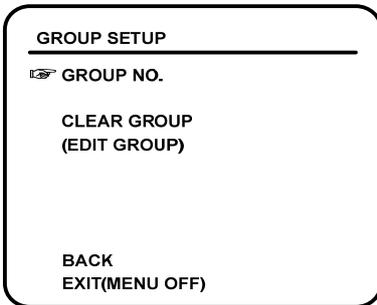


- ① Using direction key, move to start position with appropriate zoom. To start pattern recording, press **NEAR** key. To exit this menu, press **FAR** key.



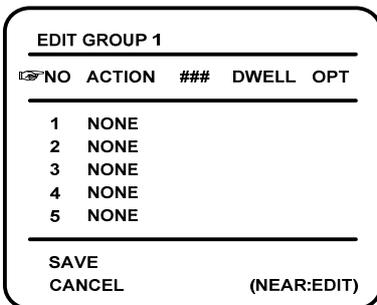
- ② Move camera with direction key or run preset function to memorize the path (mostly curve path) in a selected pattern. The total memory size and the rest memory size is displayed in the form of bar. Maximum 1200 communication commands can be stored in a pattern.
- ③ To save data and exit, press **NEAR** key. To cancel recording and delete record data, press **FAR** key.

■ Group Setup

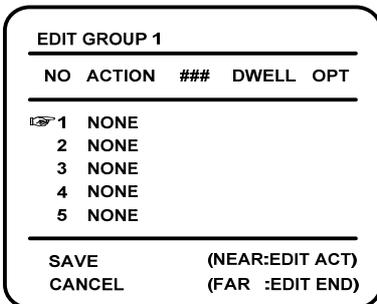


- **GROUP NO** [1~8]
Selects Group number to edit.
If a selected Group number is not defined, "UNDEFINED" will be displayed under selected Group number.
- **CLEAR GROUP** [CANCEL/OK]
Deletes data in current Group
- **EDIT GROUP** Starts editing Group.

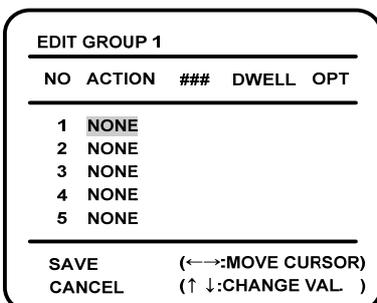
■ Edit Group



① Press **NEAR** key in "NO" list to start Group setup.



② Note that **MAX. 20** Functions are allowed in a Group. Move cursor up/down and press **NEAR** key to set up.



③ Set up Action, Dwell time and Option. Note that selected item is displayed in reverse. Move cursor **LEFT/RIGHT** to select items and move cursor **UP/DOWN** to change each value.

- **Action ###** [NONE/PRESET/SWING/PATTERN]
- **DWELL** [0 second ~ 4 minutes]
Sets Dwell Time between functions
- **OPT** Option. It should be preset speed when preset is set in Action. It should be the number of repeat when Pattern or Swing is selected in Action.

EDIT GROUP 1				
NO	ACTION	###	DWELL	OPT
1	PRESET	1	00:03	360
2	NONE			
3	NONE			
4	NONE			
5	NONE			

SAVE (←→:MOVE CURSOR)
CANCEL (↑↓:CHANGE VAL.)

④ Set up items such as Action, ###, Dwell and OPT.

EDIT GROUP 1				
NO	ACTION	###	DWELL	OPT
1	PRESET	1	00:03	360
2	NONE			
3	NONE			
4	NONE			
5	NONE			

SAVE (NEAR:EDIT ACT)
CANCEL (FAR :EDIT END)

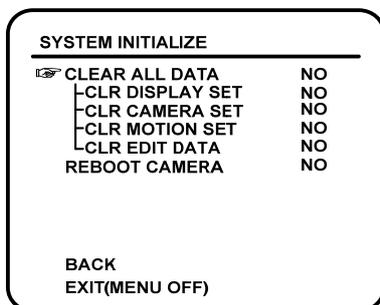
⑤ After finishing setting up a Action, press **NEAR** key to one-upper-level menu(Step ②). Move cursor **UP/DOWN** to select Action number and repeat Step ② ~ Step ④ to edit selected Group.

EDIT GROUP 1				
NO	ACTION	###	DWELL	OPT
1	PRESET	1	00:03	360
2	NONE			
3	NONE			
4	NONE			
5	NONE			

SAVE
CANCEL

⑥ After finishing setting up all Actions, press **FAR** key to exit. Then cursor should be moved to "SAVE". Press **NEAR** key to save data.

■ System Initialize



- CLEAR ALL DATA Deletes all configuration data such as display, camera, motion setup and so on.
- CLR DISPLAY SET Initializes Display Configuration
- CLR CAMERA SET Initializes Camera Configuration
- CLR MOTION SET Initializes Motion Configuration
- CLR EDIT SET Deletes Preset Data, Swing Data, Pattern Data and Group Data
- REBOOT CAMERA Reboots Zoom Camera module

■ Initial Configuration Table

● Display Configuration		● Camera Configuration	
CAMERA ID	OFF	FOCUS MODE	SEMAUTO
PTZ INFORMATION	AUTO	DIGITAL ZOOM	ON
ACTION TITLE	AUTO	LINE LOCK	OFF
PRESET LABEL	AUTO	IMAGE FLIP	OFF
ALARM INPUT	AUTO	WB MODE	AUTO
NORTH DIRECTION	Pan 0°	BACKLIGHT	OFF
PRIVACY ZONE	UNDEFINED	DAY/NIGHT	AUTO2
		BRIGHTNESS	25
		IRIS	AUTO
		SHUTTER	ESC
● Motion Configuration		AGC	HIGH
MOTION LOCK	OFF	SSNR	MIDDLE
PWR UP ACTION	ON	SENS-UP	AUTO (4 Frame)
AUTO FLIP	ON	● User Edit Data	
JOG MAX SPEED	120°/sec	PRESET 1~128	UNDEFINED
JOG DIRECTION	INVERSE	SWING 1~8	UNDEFINED
FRZ IN PRESET	OFF	PATTERN 1~4	UNDEFINED
PARK ACTION	OFF	GROUP 1~8	UNDEFINED
ALARM ACTION	OFF		

6. SPECIFICATIONS

■ Camera part

Model		ISM1063N(P)	
Video Signal System		NTSC	PAL
Camera	CCD	1/4" Interline Transfer CCD	
	Max. Pixels	811(H)×508(V) 410K	795(H)×596(V) 470K
	Effective Pixels	768(H)×494(V) 380K	752(H)×582(V) 440K
	Horizontal Res.	500 TV Line(Color), 570 TV Line(B/W)	
	S/N Ratio	50 dB (AGC Off)	
	Zoom	×10 Optical Zoom, ×10 Digital Zoom	
	Focal length	F1.8, f=3.8~38mm	
	Min. illumination	0.7 Lux (Color) / 0.02 Lux (B/W), 50 IRE	
	Day & Night	Auto / Day / Night(ICR)	
	Focus	Auto / Manual / SemiAuto	
	Iris	Auto / Manual	
	Shutter Speed	x128 ~ 1/120,000 sec	
	AGC	Normal / High / Off	
	White Balance	Auto / Manual(Red, Blue Gain Adjustable)	
	BLC	Low / Middle / High / Off	
	Flickerless	Selectable	
	SSNR	Low / Middle / High / Off	
Pan/Tilt	Range	Pan : 360°(Endless)	
		Tilt : 180° (Auto-Flip), 95° (Normal)	
	Pan/Tilt Speed	Preset : 360°/sec	
		Manual : 0.05 ~ 360°/sec (proportional to zoom)	
		Swing : 1~ 180°/sec	
	Preset	127 Preset (Label, Camera Image Setting)	
	Pattern	4 Pattern, 1200 commands(about 5 minute)/Pattern	
	Swing	8 Swing	
Group	8 Group (20 action entities per Group)		
Other Functions	Auto Flip, Auto Parking, Power Up Action etc.		
General	Privacy Zone	4 Zone	
	Alarm Input	4 Input	
	OSD	Menu / PTZ information etc	
	Rated Power	DC 12V / 1.5A	
	Dimension	Dome : Ø115	
		Housing : Ø147.5 × 141(H) mm	
	Weight	about 1 Kg	
Operating Temp.	0°C ~ 40°C(32°F ~ 104°F)		

* Specifications of this product can be subjected to change without notice.

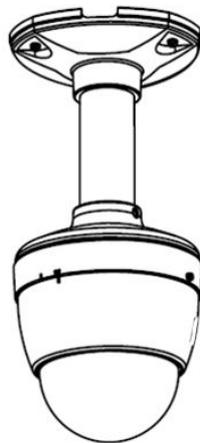
■ Network part

Model	ISMCI063N(P)	
Video Signal System	NTSC	PAL
Output Resolution	704 x 480(D1), 352 x 240(CIF)	704 x 576(D1), 352 x 288(CIF)
Output Video Format	MJPEG, MPEG4, H.264 codec selectable	
Compression transmission speed	Max 30 frame/sec	
Audio Format	Bi-directional audio(ADPCM, G.726)	
Protocol	IPv4, HTTP, TCP, RTP, RTCP, UDP,SMTP,FTP,ICMP,DHCP,UPnP,Bonjour,ARP,DNS,DynDNS	
Ethernet	10/100 Mbps(RJ-45 Type)	
Max. User	10 Users	
DDNS	1. CNB DDNS, 2. DYnDNS.org, 3.Reference code with SDK	
Security	<ul style="list-style-type: none"> • Access level setup : Multiple user access levels with password protection. • Network Security : IP Filtering. 	
Motion detection	Motion detection (Up to 3 motion detection area can be defined).	
Event	<ul style="list-style-type: none"> • Upload : FTP Server, SMTP (E-mail server). (JPEG file) • Storage : Internal memory.(JPEG file) 	

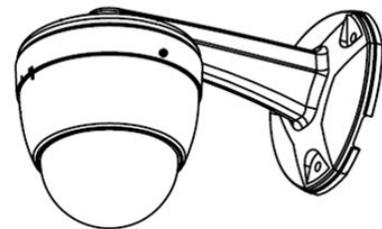
■ Appearance



● Main Unit



● Pendant Mount

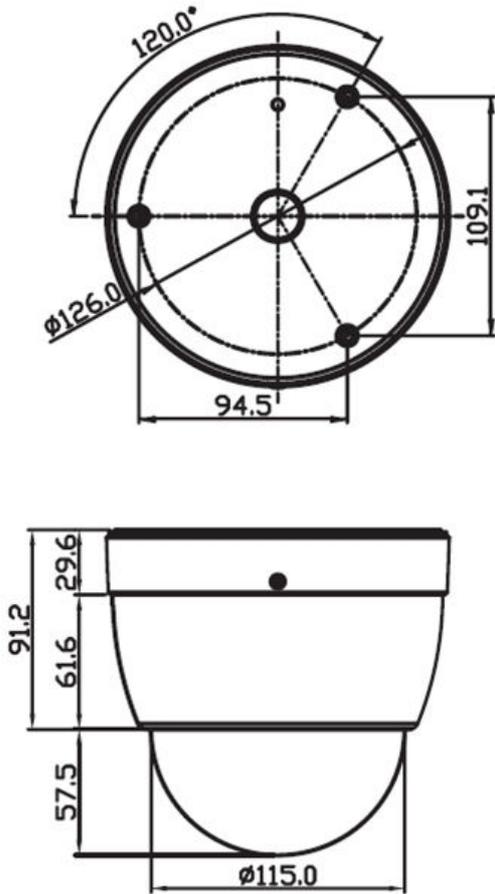


● Wall Mount

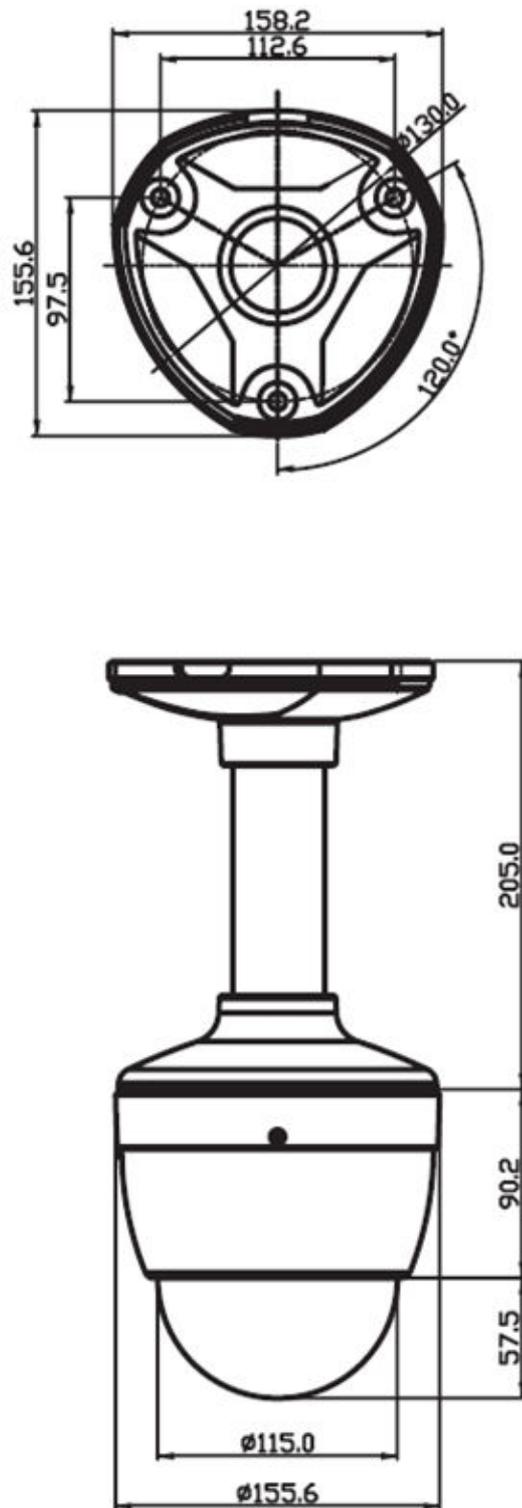
6. SPECIFICATIONS

Dimension

- Main Unit & Surface Mount Bracket

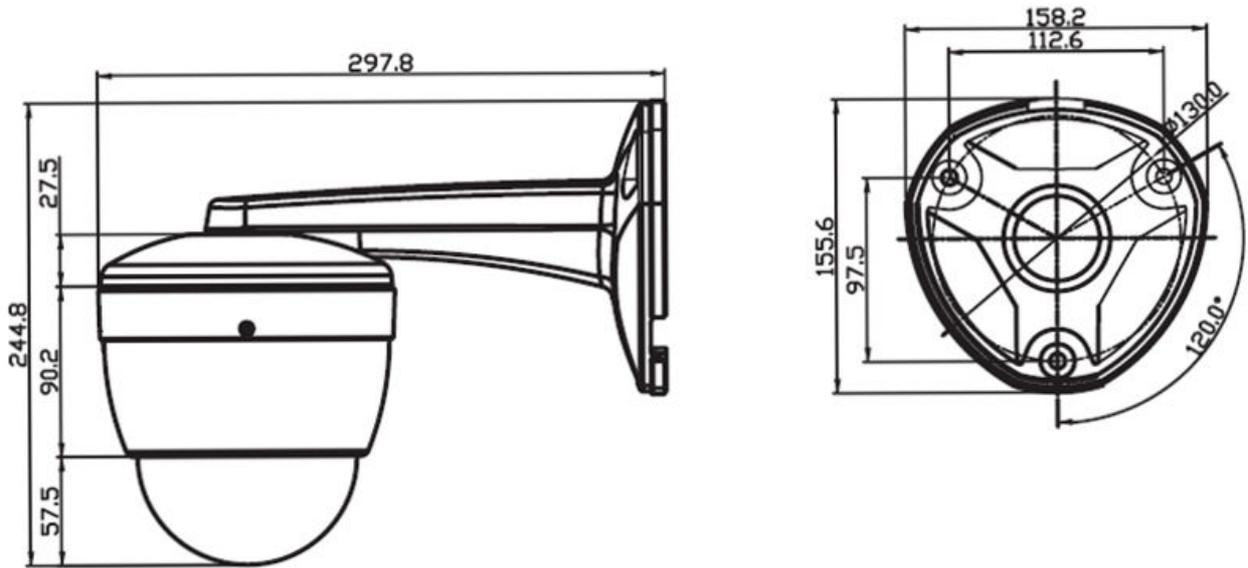


- Ceiling Mount Bracket



6. SPECIFICATIONS

- Wall Mount Bracket



Unit (mm)