



INSTRUCTION MANUAL (APPLICATION INSTRUCTIONS)

IP Network Camera

IPD-BX11

IPD-DM11

IPD-VR11



Carefully read this manual before use in order to keep these products at full capacity.

Concerning the Instruction manual (Application)

This manual explains how to configure the following cameras through Network from PC.

- IPD-BX11(Box-type IP Network Camera) without Audio, SD card slot, and DI/DO functions.
- IPD-DM11(Dome-type IP Network Camera) with Audio, SD card slot, and DI/DO functions.
- IPD-VR11(Vandal Resistant Dome-type IP Network Camera)with Audio, SD card slot, and DI/DO functions.

This manual can be downloaded from the following URL:

<http://www.ikegami.co.jp/en/products/download/security.html>

Concerning installation and the set-up procedure for the camera, please see the Operating procedure and Camera Installation on the Instruction Manual (Basic) is supplied with the camera.

To browse PDF files, Adobe Reader English Edition is required. Please download and install the latest edition from the Adobe Systems site.

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Concerning software for viewing and tool for network connection

- To see camera images, "Network Camera Viewer" software is prepared in addition.
Please contact your dealer for this software "Network Camera Viewer".

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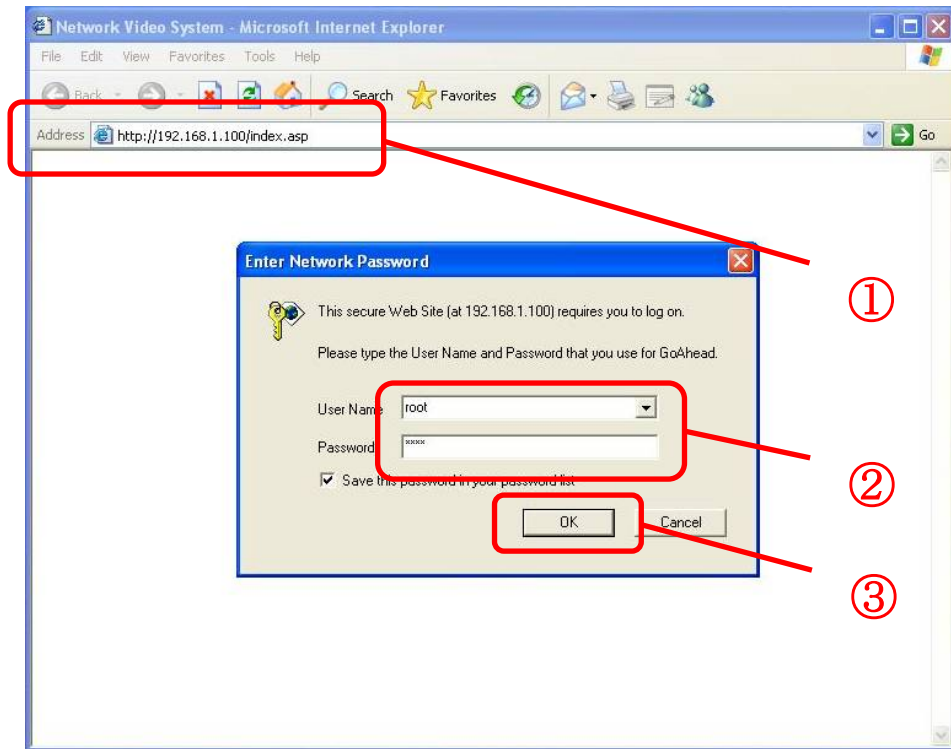
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1. Camera Login and Login Screen



① Start Internet Explorer (IE) ,input the URL of network camera as below.

Then click the **Go** button.

● The initial setting of the camera is http://192.168.1.100/ .

② Input the Login Name(User Name) and Password of administrator.

● The initial setting are Login Name(User Name) "**root**" and Password "**root**".

③ After input Login Name(User Name) and Password, press **OK** button. Once logged in, the Password can be changed to new one.

Now the Configuration screen is displayed as below. The left of screen is displaying Main menu. Each Item can be clicked and showing Setup Menu with details on the left of screen.

(Below screen is e.g. for "Quick Configuration")

The screenshot shows the configuration screen of the Network Video System. The left sidebar contains a menu with the following items: Live Viewer, Quick Configuration, System Configuration, Network Configuration, Device Configuration, Advanced Configuration, Recording Configuration, and Utilities. The main content area displays the 'Quick Configuration' screen, which includes a table of steps for configuration.

Quick Configuration	
This category shows the detailed method for Quick Configuration.	
Step 1	Configuration of Network Video System name.
Step 2	Configuration of Network Video System Date & Time.
Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).
Step 4	Configuration of dynamic IP registration of Network Video System.
Step 5	Configuration of recording for each camera.
Finish	Update the flash memory by new configured data, which is not versatile.

Notes:

IE Pop Up blocker should be released ,if not it may happened unable to set up the camera causing to block the setup communication.

Configuration (Set up) Screen Structure

The following table shows Configuration (Setup) menu structure hierarchy for IPD-DM11 and IPD-VR11 which have additional menu than IPD-BX11.

Main Menu	Setup Menu	Sub-Menu 1	Sub-Menu2
Live Viewer	なし	なし	なし
Quick configuration	Step 1	n/a	n/a
	Step 2		
	Step 3		
	Step 4		
	Step 5 (IPD-DM11,IPD-V11)		
	Finish		
System Configuration	Server Name	n/a	n/a
	Date & Time		
	Admin. Password		
	Access Control		
	User Registration		
Network Configuration	Network Configuration	n/a	n/a
	Network Ports		
	Bandwidth Control		
	View Network Status		
	NetworkStatus		
	Notify		
	IP-CCTV DNS™		
	Port Forwarding & UPnP		
	RTP/RTSP		
SNMP			
Device Configuration	Serial Ports	Serial Input Mode	n/a
		Serial Output Mode	
		Transparent Mode	
	Privacy Zone	n/a	n/a
	Camera & Motion	Camera Control	n/a

Main Menu	Setup Menu	Sub-Menu 1	Sub-Menu2
		Motion Detection	
		Primary Stream	
		Secondary Stream	
	DI/DO	n/a	n/a
	DI Status / DO Control	n/a	n/a
Advanced Configuration	Advanced Services	E-mail	Camera 1 Camera 2
		FTP(Buffered)	Camera 1 Camera 2
		FTP(Periodic)	Camera 1 Camera 2
		Sensor Notification	Input 1 Input 2
		Alarm Output	Output 1
Recording Configuration	SD Configuration	SD Status & Format SD Information	n/a
	Recording Configuration	Built-in Module 0	Camera 1 Camera 2
	Recording Profile	n/a	n/a
	Recording Mode		
	SD Status Report		
	Clear Recording Config.		
	Delete Recorded Data		
Utilities	Player (Displayed only IPD-DM11/IPD-VR11 with SD card)	n/a	n/a
	System Log		
	Save Configuration		
	Reboot		
	Factory Default		
	System Update		

2. Quick Configuration

Quick Configuration Menu is to help the configuration for camera easily. Set up Menu Step5 is only display for IPD-DM11 and IPD-VR11.

IPD-BX11

Quick Configuration	
This category shows the detailed method for Quick Configuration.	
» Step 1	Configuration of Network Video System name.
» Step 2	Configuration of Network Video System Date & Time.
» Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).
» Step 4	Configuration of dynamic IP registration of Network Video System.
» Finish	Update the flash memory by new configured data, which is not versatile.

IPD-DM11, IPD-VR11

Quick Configuration	
This category shows the detailed method for Quick Configuration.	
» Step 1	Configuration of Network Video System name.
» Step 2	Configuration of Network Video System Date & Time.
» Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).
» Step 4	Configuration of dynamic IP registration of Network Video System.
» Step 5	Configuration of recording for each camera.
» Finish	Update the flash memory by new configured data, which is not versatile.

2-1.Step 1:Server Name

Click **Step 1**, the Setup Menu for **4-1.Server Name** is displayed.

2-2.Step 2:Local Date & Time Configuration

Click **Step 2**, the Setup Menu for **4-2.Date & Time** is displayed.

2-3.Step 3:Network Configuration : Static IP

Click **Step 3**, the Setup Menu for **5-1-1.Static IP** is displayed.

2-4.Step 4:IP-CCTV DNS Setup(This function is not supported)

Click **Step 4**, the Setup Menu for **5-6.IP-CCTV DNS Setup** is displayed.

2-5.Step 5:Recording Configuration

Click **Step 5**, the Setup Menu for **8-2.Recording Configuration** is displayed. This function is only for IPD-DM11 and IPD-VR11 . When it is connected with IPD-BX11, this menu is not displayed.

2-6.Finish:Save Configuration

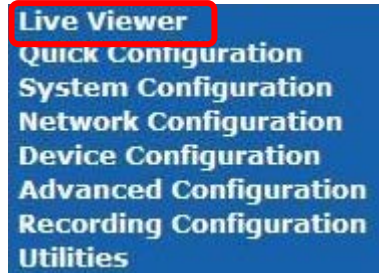
Save the setup data for above each step with this menu.

3. Live Viewer

This Live Viewer enable to control the video and audio of IPD-BX11, IPD-DM11, and IPD-VR11 over the TCP/IP network on IE.

It works with cameras to display streaming live video and to record the snap shot and/or AVI for streaming video on PC.

When the Micro SD card (SD card) is inserted into SD card slot of IPD-DM11 and /or IPD-VR11, it is able to record and replay to/from SD card by Live Viewer. (IPD-BX 11 has no SD card slot)



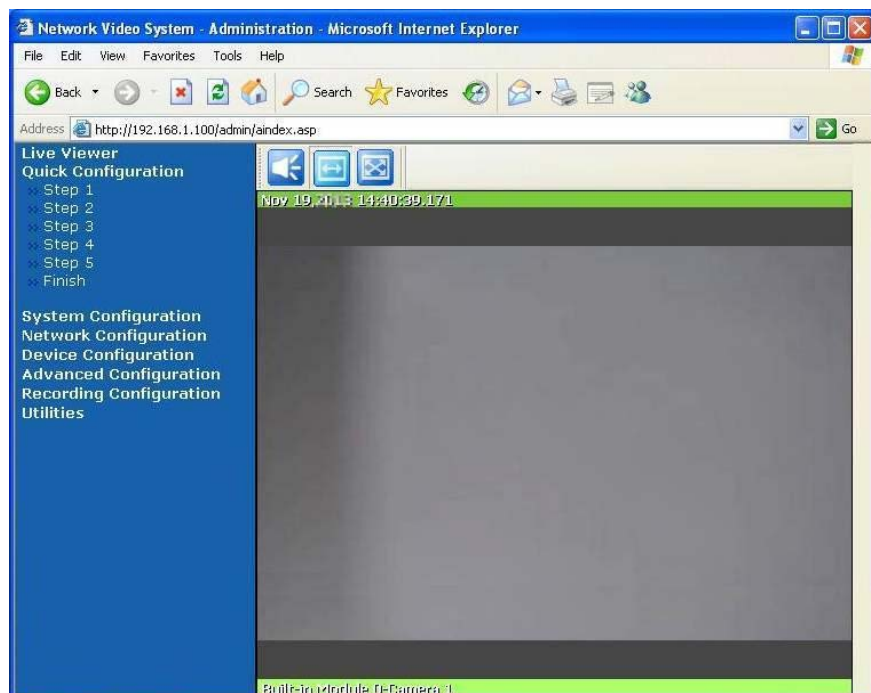
3-1. ActiveX installation

Connect to the camera on IE, click the Live Viewer on Configuration screen, then below window screen is displayed. (If confirmation window for ActiveX install is displayed, select Install)

Click the **OK** button then Active X is automatically installing.

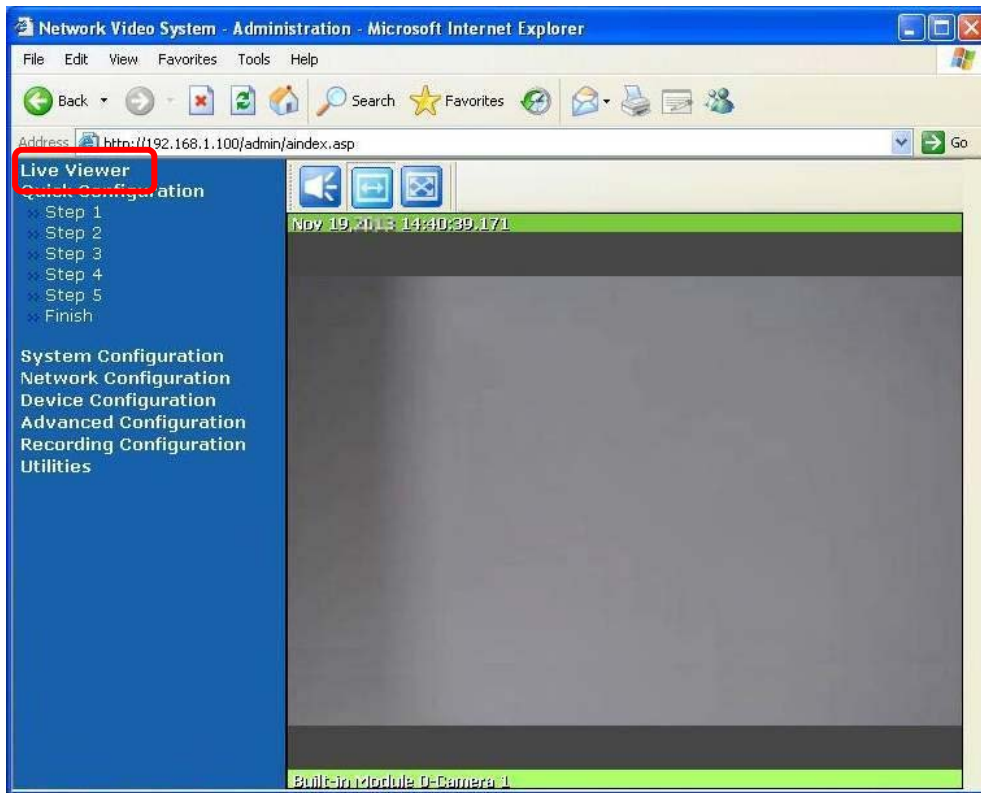


Finished installing ActiveX, below Live Viewer screen is displayed.



3-2.Live Viewer Screen

The ActiveX installed PC can display the Live Viewer screen by login the camera and click the Live Viewer on the Configuration Menu on Live Viewer. Also the Icons and buttons on screen are able to operate as explained below.



3-3.Video and Audio Control

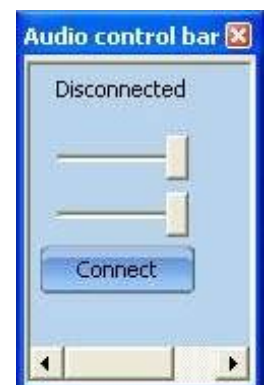
3-3-1. Video Display and Audio control (Audio function only for IPD-DM11,IPD-VR11)

Icon operation (Each Icon is shown the details by mouseover each icon)

	<p>Display or Hide the Audio Control bar (shown below) which can control the Audio level and line on/off by click this button.</p> <p>This icon also displayed to connect IPD-BX11 but it is not functioned</p>
	<p>Ratio Mode: If live video is smaller than the screen, it is displayed as original size. If live video is larger than screen, it is adjusted to fit the screen with original aspect ratio by</p>
	<p>Stretch Mode: Live video is resized to fill the entire screen by click this button.</p>

Audio control bar operation

When it is needed to use Audio for IPD-DM11,IPD-VR11, click the **Connect** button. The Audio volume is controlled by move the knob of Slider.(Right side is Max.) Mute ON-OFF function is shown **3-3-3.Mouse Right button click Menu 4**). If Audio line is needed to, cut click the **Disconnect** button.



If below popup alert window is displayed by click the **Connect** button, refer the **6-3-1.Camera & Motion** and click the **Enable** radio button of **Audio** line.



3-3-2.Mouseover buttons

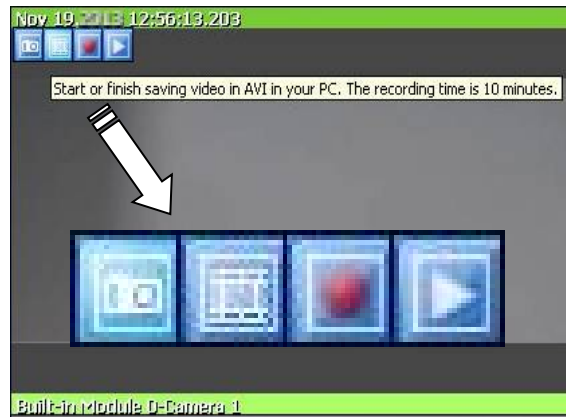
When mouseover the live video screen, control buttons displayed on left -up of live video screen as below. These control buttons displaying is different between IPD-BX11(w/o SD card slot)and IPD-DM11/IPD-VR11 (with SD card slot).

If Each button is mouseovered, the function of each button is shown on screen as below-right screen(e.g. AVI button function).

IPD-BX11



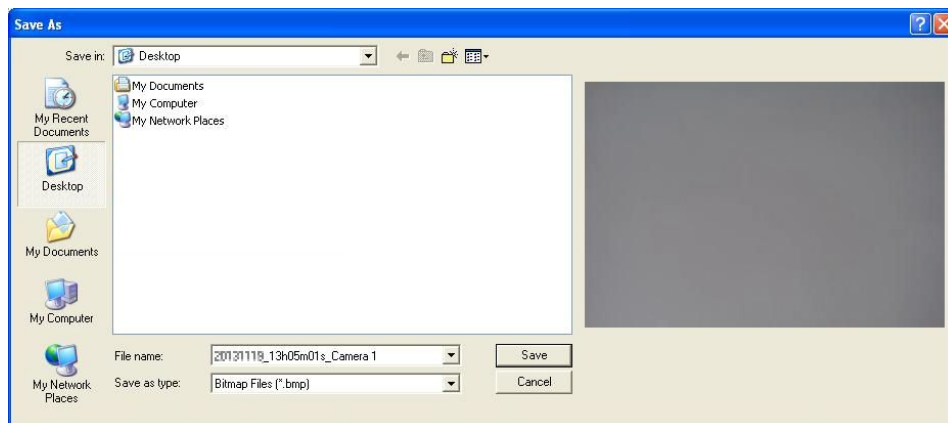
IPD-DM11/IPD-VR11



1) Snap shot button



It can be captured for currently displayed live video and saved it as image file either in JPEG or BMP format in PC. When click the Snap shot button, below saving screen is displayed with captured image. Enter the folder and file name, and click the **Save** button.



Note:

If live video is in MJPEG format, saved image will be JPEG file. If the live video is in MPEG -4 or H.264 format, saved image will be BMP file.

2)AVI button



It can be captured for currently displayed live video and saved it as video AVI format in PC. Select live video to save and click **AVI** button for saving start, and click again for saving stop. Then saving screen is displayed, enter the folder also file name, and click the **Save** button.

Note:

When you play back the saved video from H.264 format live video, it is needed the proper CODEC.

3)Force Recording (Only for IPD-DM11, IPD-VR11 with SD card)



When IPD-DM11 and/or IPD-VR11 are/is inserted SD card into SD card slot(SD card is option), live video can be recorded in the SD card by click this button. To stop recording, click again this button.

The maximum duration is 1 minute and recording will be stopped automatically after 1 minute. If it is needed to record again, click this button again.

The recorded video files (Max.1 minute/file) are saved in the SD every start/stop the recording.

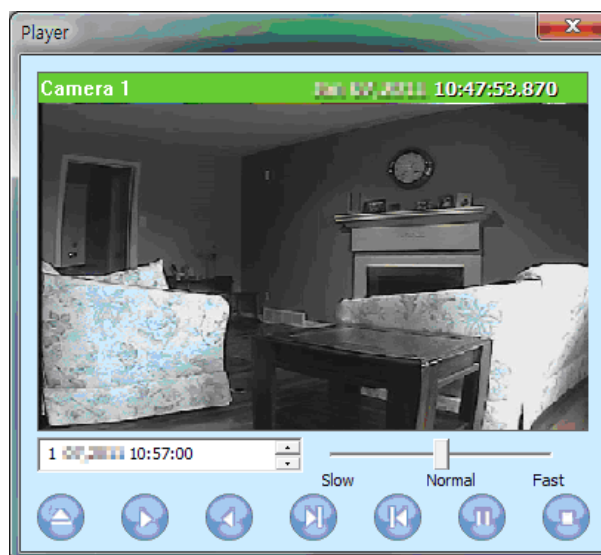
Also Player of Utilities menu of Configuration menu (only shown when SD card inserted) can playback above 3)recorded video files and backup it. Please refer INSTRUCTION MANUAL (PLAYER INSTRUCTION) as separate volume.



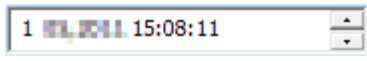
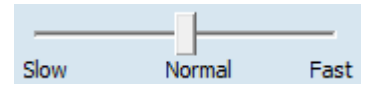







4) Instant Play back(Only for IPD-DM11, IPD-VR11 with SD card)



When IPD-DM11 and/or IPD-VR11 are/is inserted SD card into SD card slot(SD card is option),recorded video in the SD card can be done the playback by click this button. To click this button, below window will open.



Instant playback will scan the video data up to 1minute before it was execute. And scanned data will be played automatically.

	Set the beginning of video file data. Instant playback will scan 1minute after set time
	Set the playback speed.
	Start searching data
	Play
	Reverse playback
	1frame playback every click
	1frame reverse playback every click
	Pause
	Stop

3-3-3.Mouse Right button click Menu

When the right button of Mouse is clicked on the Live Viewer window, below pop-up menu will be displayed as extended menu.



1) Pause

Click Pause button to stop and resume live view video.



2)FPS(Frame/Sec)

Not supported.

3) Flip

Click this button to invert the direction of video image, if select Mirror then original image invert horizontally as mirror, and select Flip then original image flipped vertically.



4) Mute Audio(Only for IPD-DM11, IPD-VR11)

Click this button to make on and off Mute the Audio. Also please refer 3-3-1. Video Display and Audio control.



5) Do1(Set Alarm output On/Off for only IPD-DM11,IPD-VR11)

Click this button to control relay output is On or Off for checking connected lighting, alarm products and etc.



6) Navigation(Live view position navigation)

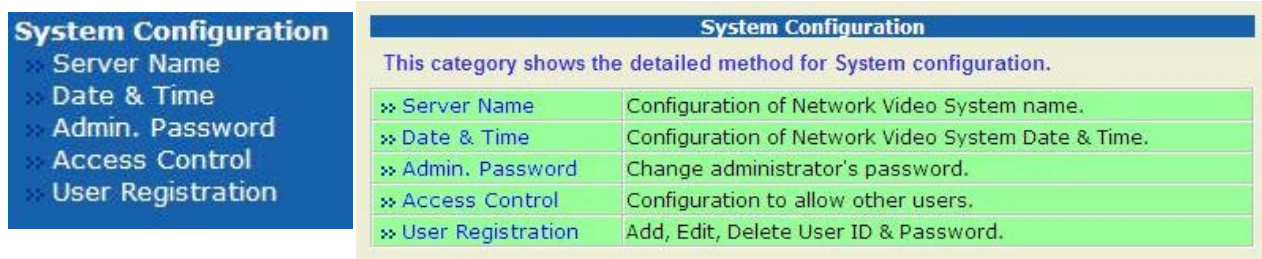
When click the Time Stamp, below saving screen is displayed with captured image attach TimeStamp. Enter the folder and file name, and click the Save button.



4. System Configuration

Click **System Configuration** item, the below setup menu is displayed.

It can be setup for camera system.

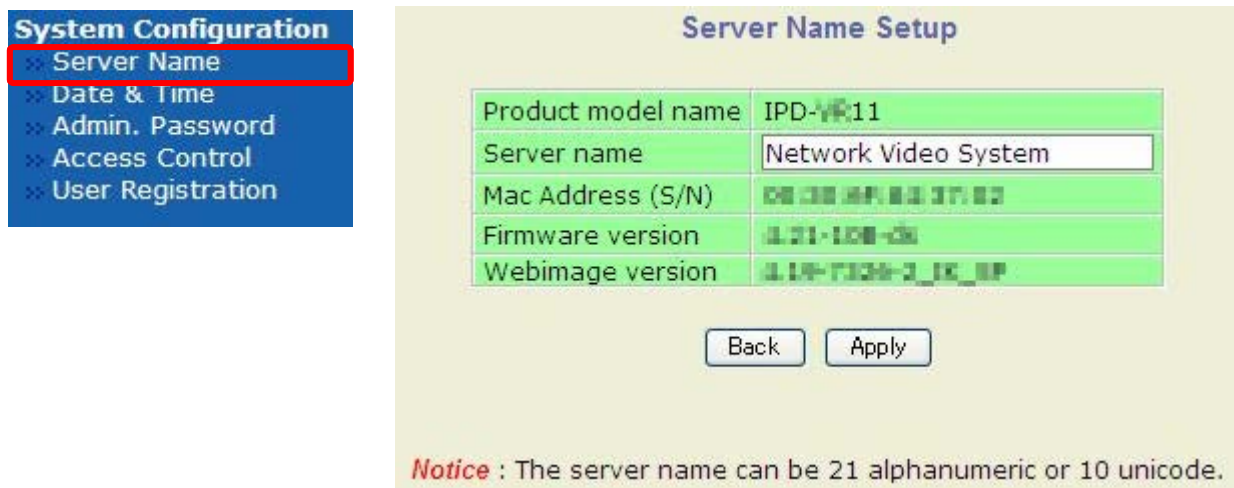


The screenshot shows a sidebar menu on the left with the following items: System Configuration, Server Name, Date & Time, Admin. Password, Access Control, and User Registration. The main content area is titled "System Configuration" and contains a table with the following details:

System Configuration	
This category shows the detailed method for System configuration.	
Server Name	Configuration of Network Video System name.
Date & Time	Configuration of Network Video System Date & Time.
Admin. Password	Change administrator's password.
Access Control	Configuration to allow other users.
User Registration	Add, Edit, Delete User ID & Password.

4-1. Server Name

Click **Server Name** item, below Server Name Setup screen is displayed (Same as Quick Configuration Step1).



The screenshot shows the "Server Name Setup" screen. On the left, the "System Configuration" menu is visible with "Server Name" highlighted. The main screen displays a table with the following information:

Product model name	IPD-VR11
Server name	Network Video System
Mac Address (S/N)	08:00:4F:83:37:83
Firmware version	3.21-108-06
Webimage version	3.19-7329-3_IC_BP

Below the table are two buttons: "Back" and "Apply".

Notice : The server name can be 21 alphanumeric or 10 unicode.

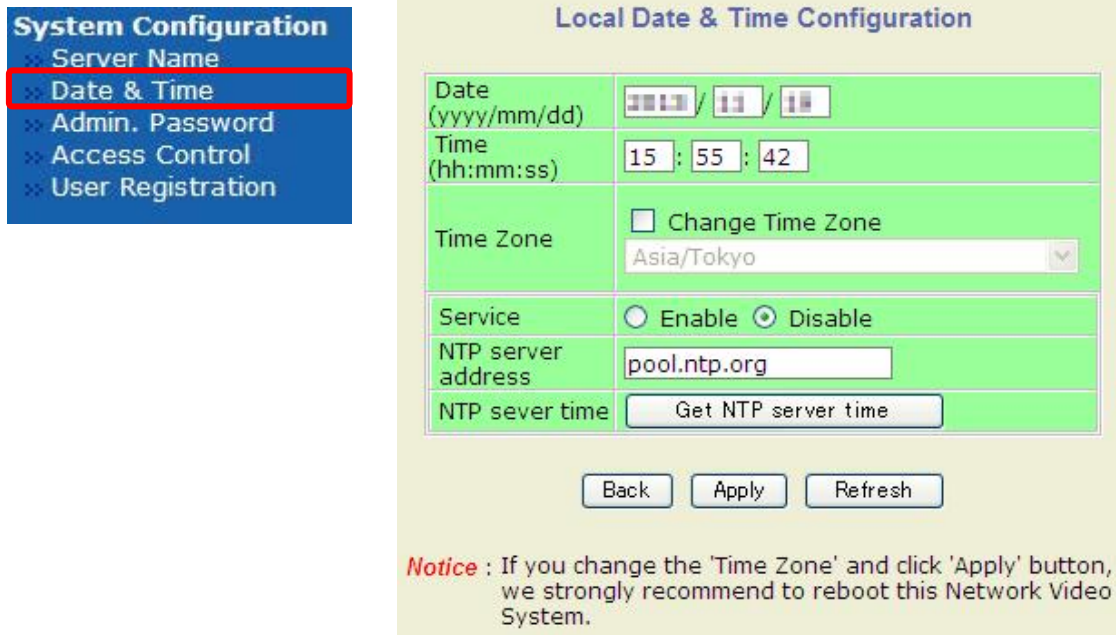
It can be changed the name on **Server name** field, but other item name/values are not allowed to change. Enter the new server name in the Server Name field which can be used up to 21 alphanumeric or up to 10 Unicode characters.

Finished the name print, click the **Apply** button to save the setting and it will take effect immediately.

If click **Back** button, new setting data will be cancelled and the setup screen will be back to previous setup screen .

4-2.Date & Time

Click **Time & Date** item ,below Local Date & Time Configuration screen is displayed(Same as 2-2.Step 2:Local Date & Time Configuration).



Date(yyyy/mm/dd)	Set the date
Time(hh:mm:ss)	Set the Local time
Time Zone	Select and set the Time Zone for this system location.
Service	Enable:NTP Server service used Disable:NTP Server service not used
NTP server address	Set NTP Server address
NTP server time	Click button to get synchronized time from NTP server

If **Time Zone** is not corrected, tick **Change Time Zone** and select the right time zone area ,then set the date and time. For save changed date and time, click **Apply** button.

When it is needed exact correct time, use NTP server service and click **Get NTP Server Time** button.

Click **Refresh** button, it will be displayed the Date & Time retrieved.

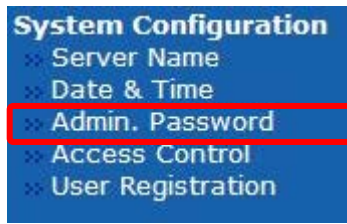
If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen .

Note:

In order to retrieve Time and Date data from NTP server, it is needed to put address of NTP server in advance of setting up , such as above "pool.ntp.org "

4-3.Admin. Password

Click **Admin Password**, then Administrator Password can be changed on below displayed screen.



Administrator's ID	"root" fixed , not allowed to change
Old Password	Enter current password (Factory default "root")
New Password	Enter new password between 4 and 23 alphanumeric .This password is also used for Login on IE and Authentication of RTSP streaming.
Confirm Password	

After set the new password, click the **Apply** button to save and take into effect it.

Note :
The existing camera network connection was made up with login by old Admin Password ,thus it is lost connections for camera caused to changed password. It must be reconnected for camera with using new password login.

4-4.Access Control

Click **Access Control** item, below Access Control Configuration screen is displayed



Full Access	Any user can access the camera and use all futures without limit through RTSP Streaming.
Limited Access	Only registered users can access the camera and have limit privileges through RTSP streaming.

After set this click the **Apply** button to save this selection.

Note :
If this setting is not done, it is not able to enable the setting for item 4-5-1.Add **System Resource Access Permission**.

4-5. User Registration (Limited Access)

Displayed on Menu, but function is not implemented

Click **User Registration** item, below User Registration setting menu screen is displayed.

It is able to setup for Limited access User (add, edit, delete) through RTSP streaming.



4-5-1. Add

Click Add radio button, the below screen is displayed.

The screenshot shows a form titled 'User Registration (Add)'. At the top, there are three radio buttons: 'Add' (which is selected and highlighted with a red box), 'Edit', and 'Delete'. Below these are four input fields: 'User ID', 'Password', 'Confirm password', and 'Name'. A red notice at the bottom states: 'Notice : User ID & Password must be alphanumeric within 23 characters.'

User ID	Enter up to 23 alphanumeric characters
Password	Enter same password between 4 and 23 alphanumeric.
Confirm Password	
Name	Enter up to 31 alphanumeric characters

Now select one of **System Resource Access Permission** on below screen

The screenshot shows a selection screen titled 'System Resource Access Permission' with four radio button options: 'All Channels Access' (selected), 'General Access (only live viewing access)', 'No Access', and 'Selective Access'.

All Channels Access	User can use all function except Administration setup page.
General Access (only live viewing access)	User can use only Live View video.
No Access	User is not permitted of any function.
Selective Access	User is allowed to use only selected functions which is setup on below screen.

Note :

The registration for user of RTSP streaming can be done on this screen, but it is unable if the Limited Access item is not selected on screen of **4-4. Access Control (Limited Access)**.

System Resource Access Permission

All Channels Access
 General Access (only live viewing access)
 No Access
 Selective Access

Enable	VS Module ID	Camera No.	Alarm Control	PTZ Control	Audio Control	Play back
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	Built-in Module 0	All	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

VS Module ID	Built-in Module0 is set (fixed).
Camera No	Select Access stream between Camera No.1:Primary Stream, Camera No.2 :Secondary Stream and All: Both Stream.
Alarm Control	Set the permission to access for control Alarm system part.
PTZ Control	Set the permission to access for PTZ control(Not supported)
Audio Control	Set the permission to access for Audio control(Only IPD-DM11/VR11)
Playback	Set the permission to access for Playback control of recorded video. (Only IPD-DM11 and IPD-VR11)

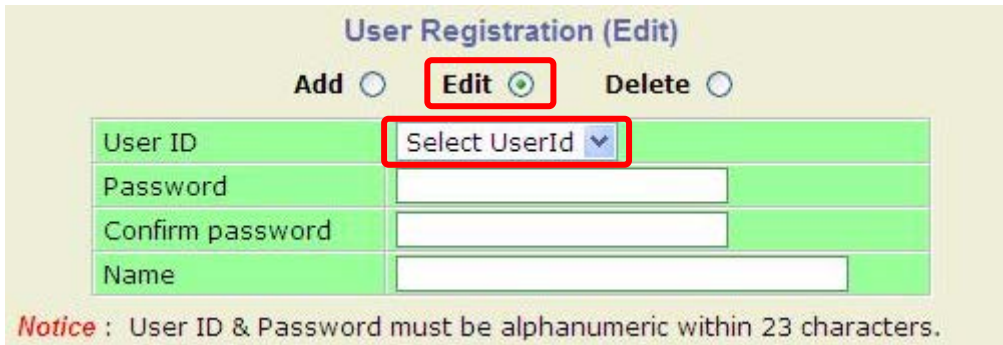
After finished above all registration process for Add, click **Apply** button to save the added the user. If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen.

4-5-2.Edit

Click **Edit** radio button, the below screen is displayed.

It is able to change the User Name for RTSP streaming, Password, User ID(Access name).

This registered User ID can not be changed on this screen. If it is needed to change registered User ID, follow **4-5-3.Delete** and next **4-5-1.Add** procedure.



User Registration (Edit)

Add **Edit** Delete

User ID

Password

Confirm password

Name

Notice : User ID & Password must be alphanumeric within 23 characters.

User ID	Select the registered User ID for editing on this filed.
Password	Enter same password between 4 and 23 alphanumeric.
Confirm Password	
Name	Enter up to 31 alphanumeric characters

After finished above setting, click **Apply** button to save settings.

4-5-3.Delete

Click **Delete** radio button, the below screen is displayed.

Select the User ID to delete, which is shown on the User ID list of below window.

And click the Delete button to delete the user registration.



User Registration (Delete)

Add Edit **Delete**

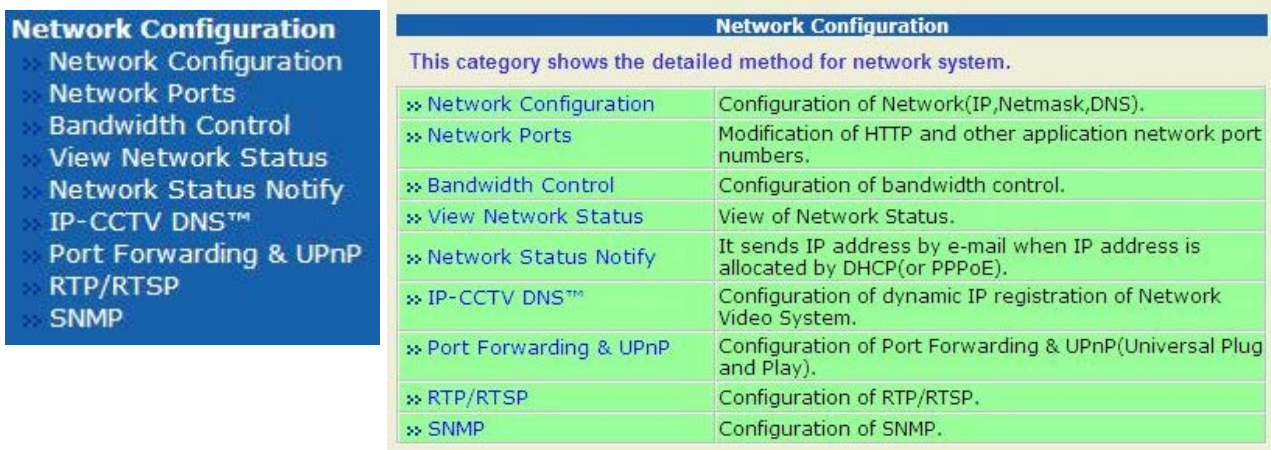
UserID (GroupID)

test

Back Delete

5. Network Configuration

Click **Network Configuration** item of Configuration Menu, then below configuration screen is displayed. It is able to setup the Network conditions.



The image shows a sidebar menu on the left with the following items: Network Configuration, Network Ports, Bandwidth Control, View Network Status, Network Status Notify, IP-CCTV DNS™, Port Forwarding & UPnP, RTP/RTSP, and SNMP. The main content area is titled "Network Configuration" and contains a table with the following details:

Network Configuration	
This category shows the detailed method for network system.	
Network Configuration	Configuration of Network(IP,Netmask,DNS).
Network Ports	Modification of HTTP and other application network port numbers.
Bandwidth Control	Configuration of bandwidth control.
View Network Status	View of Network Status.
Network Status Notify	It sends IP address by e-mail when IP address is allocated by DHCP(or PPPoE).
IP-CCTV DNS™	Configuration of dynamic IP registration of Network Video System.
Port Forwarding & UPnP	Configuration of Port Forwarding & UPnP(Universal Plug and Play).
RTP/RTSP	Configuration of RTP/RTSP.
SNMP	Configuration of SNMP.

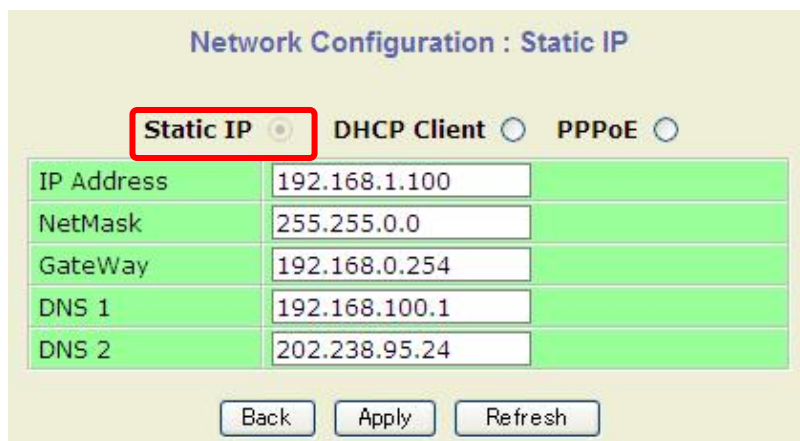
Before this setup, it should be confirmed with Network Administrator of property.

5-1.Network Configuration

Click **Network Configuration** of Setup Menu, then below **2-3.Step 3:Network Configuration : Static IP** screen is displayed.

5-1-1.Static IP

Click **Static IP** radio button, the below screen is displayed.



The screenshot shows the "Network Configuration : Static IP" screen. At the top, there are three radio buttons: "Static IP" (which is selected and highlighted with a red box), "DHCP Client", and "PPPoE". Below the radio buttons is a table with the following fields and values:

IP Address	192.168.1.100
NetMask	255.255.0.0
GateWay	192.168.0.254
DNS 1	192.168.100.1
DNS 2	202.238.95.24

At the bottom of the screen, there are three buttons: "Back", "Apply", and "Refresh".

Input the IP Address , NetMask, GeteWay, DNS 1, DNS 2.

After input I P address, click the **Apply** button.

Then the pop-up window to close the Browser is displayed, close the Browser and start automatically the rebooting which is taking 1minute to 2minutes.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

If click **Refresh** button, recent registered IP address in camera will be displayed.

5-1-2.DHCP Client

When it is needed to get automatically IP address from exist DHCP server in the network, click the **DHCP Client** radio button, and click the Apply button.



Network Configuration : DHCP Client

Static IP **DHCP Client** PPPoE

Notice : Please make sure to set up "Network Status Notify" option to get IP address through e-mail when DHCP option is selected.

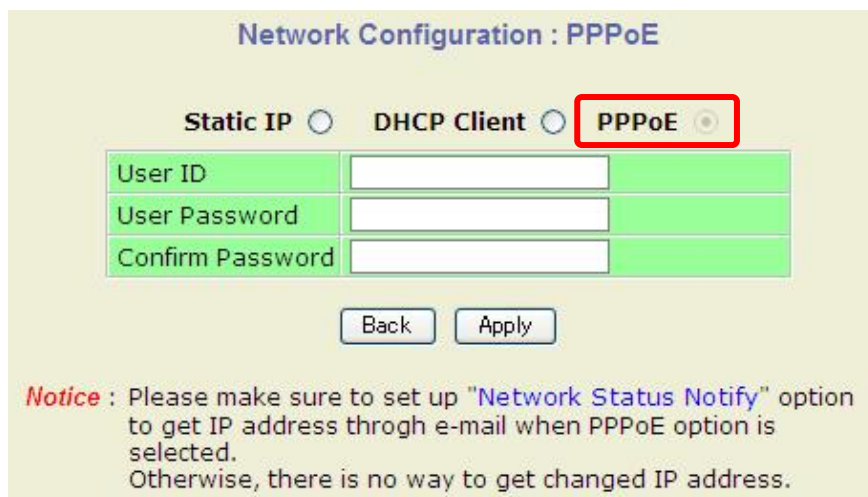
Note:

Above **Network Status Notify** function is not supported. But it is only explained on **5-5.Network Status Notification**.

5-1-3.PPPoE

This function is not supported

PPPoE is used to connect IP camera to PPPoE Modem provided ISP. It is needed the verification ,ID and Password. After setup, click Apply button to save settings.



Network Configuration : PPPoE

Static IP DHCP Client **PPPoE**

User ID	<input type="text"/>
User Password	<input type="text"/>
Confirm Password	<input type="text"/>

Notice : Please make sure to set up "Network Status Notify" option to get IP address through e-mail when PPPoE option is selected. Otherwise, there is no way to get changed IP address.

Note:

Above **Network Status Notify** function is not supported. But it is only explained on **5-5.Network Status Notification**.

5-2. Network Ports

Click **Network Ports**, then below setup screen is displayed.

This setting is for HTTP port number which is used to connect Client PC and IP camera(Web page).

It can be assigned between 80 and 6553 and default value is 80.

After setup, click **Apply** button to save settings.



Network Configuration

- Network Configuration
- Network Ports**
- Bandwidth Control
- View Network Status
- Network Status Notify
- IP-CCTV DNS™
- Port Forwarding & UPnP
- RTP/RTSP
- SNMP

Network Ports Configuration

HTTP Port (Default:80, 80 ~ 65535)

Notice • HTTP Port : For web access, video streaming and playback.

Note:

If the HTTP port number is changed than default 80, the connected URL should be attached new Port number as below example

http:// [IP Address of camera] : [HTTP PORT NUMBER] /

Camera Address [192.168.1.100] and new port number is [8080]

The URL should be http://192.168.1.100:8080/

5-3. Bandwidth Control

Click **Bandwidth**, then below setup screen is displayed.



Network Configuration

- Network Configuration
- Network Ports
- Bandwidth Control**
- View Network Status
- Network Status Notify
- IP-CCTV DNS™
- Port Forwarding & UPnP
- RTP/RTSP
- SNMP

Bandwidth Control Configuration

Service Enable Disable

Bandwidth Limit Kbps

Notice • The bandwidth limit should be over 32.
• MPEG-4 or H.264 streaming can be affected by this setting.

This setting is for maximum limit data size of transferring on network. If the data size is exceeded this setting limit, part of data will be randomly lost. If multiple users try to access camera streaming, the users streaming share this setup limited data size each other.

Note:

○ In H.264, it is recommended to use CBR and frame rate control instead of Bandwidth control.

○ This bandwidth control works fairly well in M-JPEG video transmission.

○ This bandwidth control can manage and limit the exceeded limit data size of camera, it drops any camera control data packet also, thus it may slow down to access IP camera.

5-4.View Network Status

Click **View Network Status** item, below Network Status view screen is displayed.

This view screen shows the network status information at present.

Network Configuration

- » Network Configuration
- » Network Ports
- » Bandwidth Control
- » View Network Status**
- » Network Status Notify
- » IP-CCTV DNS™
- » Port Forwarding & UPnP
- » RTP/RTSP
- » SNMP

Network Status

Common Status

Gateway	<input type="text" value="192.168.0.254"/>
Gateway Device	<input type="text" value="eth0"/>
DNS1	<input type="text" value="192.168.100.1"/>
DNS2	<input type="text" value="202.238.95.24"/>

LAN Status

IP Address	<input type="text" value="192.168.1.100"/>
Netmask	<input type="text" value="255.255.0.0"/>
MAC Address	<input type="text" value="00:30:6F:84:37:02"/>

PPPoE Status

Connection Status	<input type="text" value="Link is down"/>
IP Address	<input type="text"/>
Netmask	<input type="text"/>

WAN-Modem Status

Connection Type	<input type="text" value="PPP Server (Dial In)"/>
Connection Status	<input type="text" value="Link is down"/>
Local IP	<input type="text"/>
Remote IP	<input type="text"/>
Netmask	<input type="text"/>

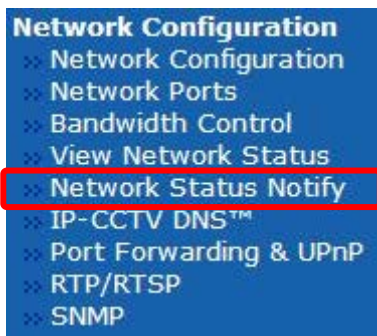
When click the **Refresh** button, the status data will be set as newest data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

5-5. Network Status Notification

This function is not supported

Click **Network Status Notification** item, below menu and screen is displayed.



Network Status Notification

Mail Notification	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
SMTP Server	<input type="text"/>
Authentication Login	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
User ID	<input type="text"/>
Password	<input type="text"/>
Sender	<input type="text"/>
1st Recipient	<input type="text"/>
2nd Recipient	<input type="text"/>
3rd Recipient	<input type="text"/>
===== User-Defined Message =====	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	
<input type="text"/>	

Notice : It sends IP address by e-mail when IP address is allocated by DHCP(or PPPoE).

If any changes happen for network status, it is sent the update network status information to registered email address. This function will work under DHCP or PPPoE.

After finished above setting, click **Apply** button to save settings.

The working conditions of this function are as follows

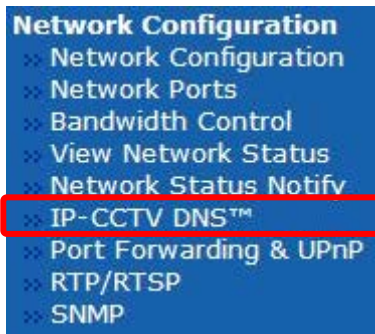
- **5-6.IP-CCTV DNS Setup** has been done.
- **5-1-2.DHCP Client Setup** has been done, and the camera has been given new IP address.
- **5-1-3.PPPoE Setup** has been done, and the camera has been given new IP address by ISP or PPP server.

Mail Notification	Enable : Send email Disable : Do not send email
SMTP Server	SMTP Sever Address for email service
Authentication Login	Enable : User ID and Password are required Disable : Not required
User ID	User ID for SMPT server
Password	Password for SMPT Server
Sender	Email Address of Sender
1st~ 3rd Recipient	Email Address of Recipients(up to 3 persons)
User Defined Message	Message is included in Notification email

5-6.IP-CCTV DNS Setup

This function is not supported

Click **IP- CCTV DNS** item on the Menu, below Setup screen is displayed.



The "IP-CCTV DNS™ Setup" screen contains a table with the following fields:

Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
DNS Server IP	<input type="text" value="www.ipcctvdns.com"/> <input type="button" value="Go"/>
Mac Address	<input type="text" value="080006047102"/>
Product-Key	<input type="text" value="32014803100"/>
IP-CCTV DNS Registration verification	<input type="button" value="Confirm"/>

Below the table are "Back" and "Apply" buttons.

Notice : If you do not use public dynamic IP address for the remote access, please skip this step.
This is related with www.ipcctvdns.com.
Different IP address or URL must follow the same protocol of www.ipcctvdns.com
If you click Confirm button, you can verify registered URL on IP-CCTV DNS.
If product is not registered on IP-CCTV DNS, you can not verify registered URL.

IP-CCTV DNS service provides a static & public domain name to help users' access IP camera even through their IP address is changed or they are used in local network. To use IP-CCTV DNS, users have to create ID from IP-CCTV DNS server (<http://www.ipcctvdns.com>), and register the camera with MAC address and Product Key.

Finished the above registration, click the Enable radio button on Service item of above screen.

Then click the **Apply** button, it can be display the registered information on screen.

After check this registration information, click **Confirm** button.

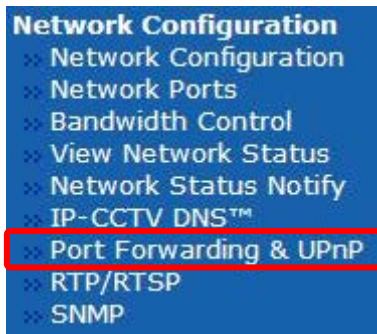
Note :

- When this function is not used, it should not be setup.
- The provided domain name is able to check by **Confirm** button.
- The registered information is not shown without provided ID (Resister the Mac address, and Product Key)

5-7.Port Forwarding & UpnP

This function is not supported

Click **Port Forwarding & UPnP** item on the Menu, below setup screen is displayed.



Port Forwarding & UPnP

Port Forwarding	<input checked="" type="radio"/> Manual : User Assigned port	9080
	<input type="radio"/> UPnP : User Assigned port	9080
	<input type="radio"/> UPnP : Auto selected port	
Display shortcut Icon in My Network Places	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	

UPnP Status

Status	Success
External Port No.	9080
Router Global Address	
System's IP address for Local Network Access	http://192.168.100.119:80
System's IP address for Access via Internet	

Back Apply Refresh

Notice : User's assigned port is the external port number of dynamic IP address. This function is quite unique when UPnP IP sharer or router are used together. If Upnp service is not activated by UPnP : User Assigned port, allocate another port.

Port Forwarding is to assign a certain network port to a network product, which users can access from outside of Local area network. It can be configured from router.

There are 3 options in Port Forwarding UPnP.

○Manual:User Assigned Port

To use when users can access network router(hub) and manually assign available network port to camera.

○UPnP: User Assigned Port

To use when users need to configure the camera Port Forwarding menu of network hub with user-assigned network port. If it fails, try to change user-assigned port.

○UPnP: Auto Selected Port

To use when users need to assign automatically the port for camera and router in the network.

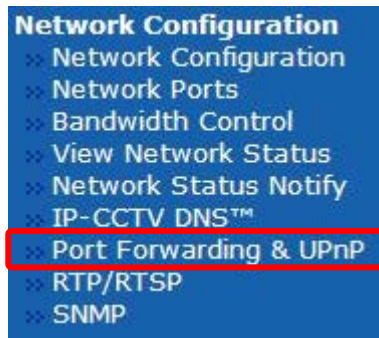
After finished above setting, click **Apply** button to save. When click the **Refresh** button, the status data will be set as newest data. If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

Note:

When the router is supporting UPnP Port Forwarding, then there is limit for maximum UPnP devices. If it is properly configured, the results "Success" will be shown on **UPnP Status**.

5-8.RTP/RTSP

Click **RTP/RTSP** item on the Menu, below setup screen is displayed.



RTP/RTSP Setup

Service		<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
RTSP Port		<input type="text" value="554"/>	(Default:554, 554 ~ 65534)
RTP Start Port		<input type="text" value="5000"/>	(Default:5000, 2048 ~ 65534)
Camera 1	Multicast Address	<input type="text" value="0.0.0.0"/>	Disable:0.0.0.0 (225.0.0.0 ~ 239.255.255.255)
	Multicast Port	<input type="text" value="0"/>	(Disable:0, 2048 ~ 65534)
Camera 2	Multicast Address	<input type="text" value="0.0.0.0"/>	Disable:0.0.0.0 (225.0.0.0 ~ 239.255.255.255)
	Multicast Port	<input type="text" value="0"/>	(Disable:0, 2048 ~ 65534)

Notice : This function is only for built in module.
IP devices (added VS module) does not support this function.

RTSP URL for Camera 1
rtsp://(Network Video Server IP Address)/stream1
-> stream(1:Port number)

RTSP URL for Camera1 for Multicast address
(Multicast address and Port should be configured.)
rtsp://(Network Video Server IP Address)/multicast_stream1
-> multicast_stream(1:Port number)

The RTP/RTSP for camera video streaming and audio streaming(only IPD-DM11,IPD-VR11) are able to set on this screen.

Service	Enable:Start RTSP service Disable:Stop RTSP service To use ONVIF protocol, RTP/RTSP must be set Enable
RTSP Port	Recommended default number 554. If it is needed to change port number, enter the number as below. e.g.) port number 445 rtsp://192.168.100:445/stream1
RTP StartPort	Set the starting number of port for video transfer. When video transfer connection is made by each time, the port number also increases.
Multicast Address	Set the address for multicast video transfer. The multicast address"0.0.0.0"is for stopping multicast.
Multicast Port	Port number for viewing the video stream with multicast address.

After finished above setup, click **Apply** button to save settings.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen

The video streaming for camera can be set as below example.

This example is explained based on camera default IP address 192.168.1.100.

Unicast Address

Primary Stream rtsp://192.168.1.100/stream1
Secondary Stream rtsp://192.168.1.100/stream2

Multicast Address

Primary Stream rtsp://192.168.100/multicast_stream1
Secondary Stream rtsp://192.168.100/multicast_stream2

5-9.SNMP

Click **SNMP** item on the Menu, below setup screen is displayed.



It can be monitored and configured the network status of connected network products. SNMP V1 and V2 are supported over MIB2(Management Information Base),but few functions are not supported.

SNMP V1/V2	Enable:Start SNMP service Disable:Stop SNMP service
Trap	Enable:Start SNMP Trap service Disable:Stop SNMP Trap service.
Destination IP Address	Set the IP address for product to receive SNMP Trap message.
Trap Community	Key value used in SNMP Trap e.g.) public
Available Traps	Cold Start:When SNMP start. Authentication Failure:When key value of SNMP query is wrong.

After finished above setup, click **Apply** button to save settings.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen.

6. Device Configuration

Click **Device Configuration** item on Menu, below setup screen is displayed.

It can be setup privacy zone, camera, motion detection, Sensor Input, Alarm Output etc.

Device Configuration	
This category shows the detailed method for Device Configuration.	
Serial Ports	Configuration of serial ports(RS-232, RS-422, RS-485 ports)
Privacy Zone	Configuration of Privacy Zone.
Camera & Motion	Configuration of video mode and the details.
DI/DO	Configuration of DI(Sensor Input)/DO(Alarm Output).
DI Status/DO Control	Enable or Disable each DO(Alarm Output) port.

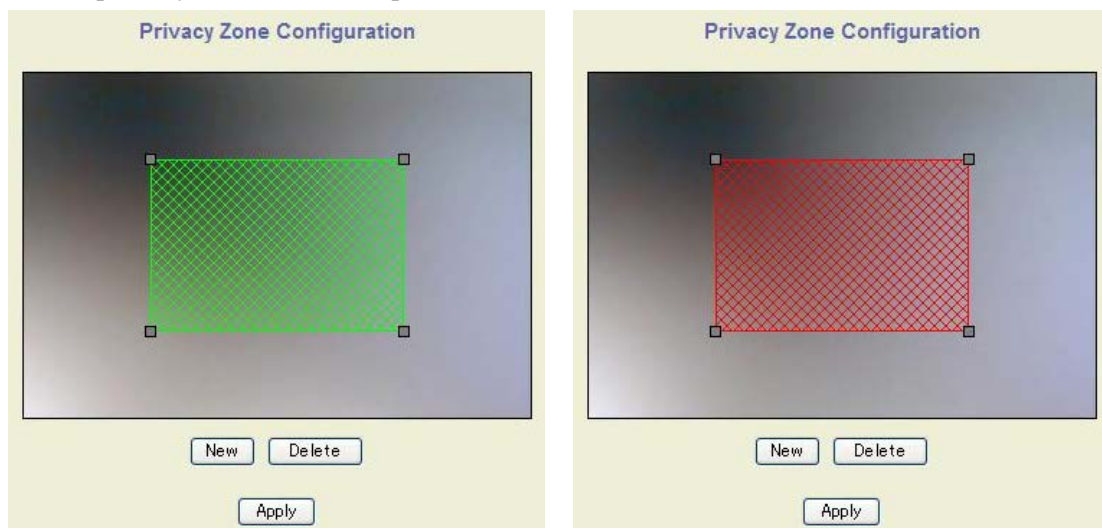
6-1.Serial Ports

Displayed on Menu, but function is not implemented

6-2.Privacy Zone

Click **Privacy Zone** item on Menu, below setup screen is displayed.

It can be set privacy zone if certain part of screen needs to unmonitored.

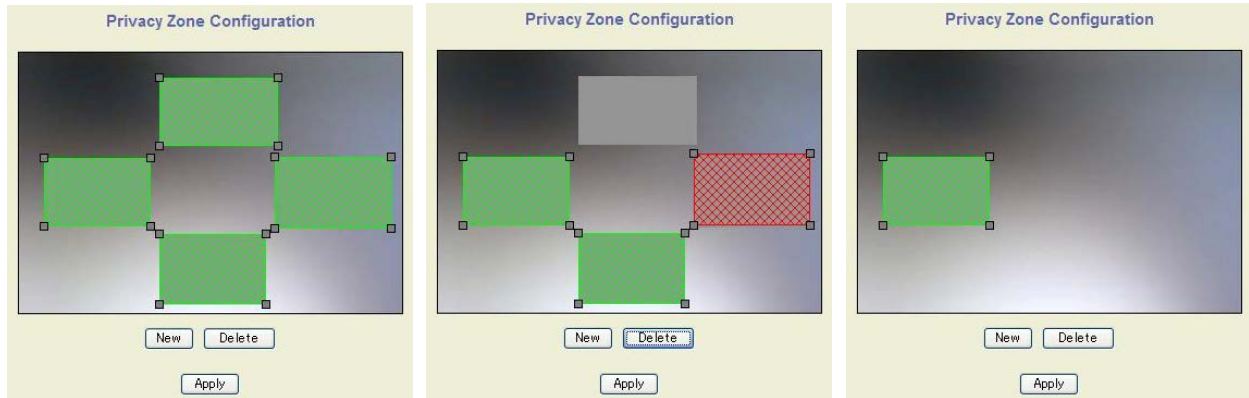


6-2-1.Add Privacy Zone

Privacy zone is marked with a rectangular shape as above screen display. When click the **New** button, red-colored box will pop up and it can be changed size and location by Mouse.

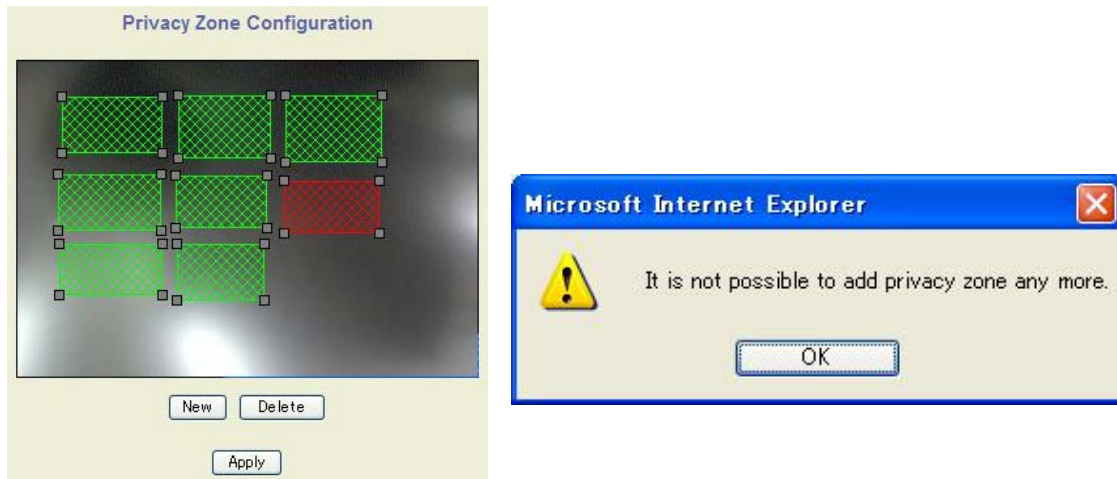
Finished the setup this box(zone),click the **Apply** button, then box is made to green-color and finish the setting for this box(zone).

6-2-2.Delete Privacy Zone



Click the box(zone) which is needed to delete, then green-colored box is changed red-colored. Click **Delete** button, and red-colored-box is changed gray-colored box. Click **Apply** button, then it is deleted.

6-2-2.Delete Privacy Zone



It can be defined 8 privacy zones maximum. If it is tried to set over 8 zones, above message is pop up on screen.

6-3.Camera & Motion



It can setup the stream video format, data on the video data,Encoding speed, audio control (only IPD-DM11,IPD-VR11), Video quality, motion detection and etc.

2 formats of Streaming video as below.

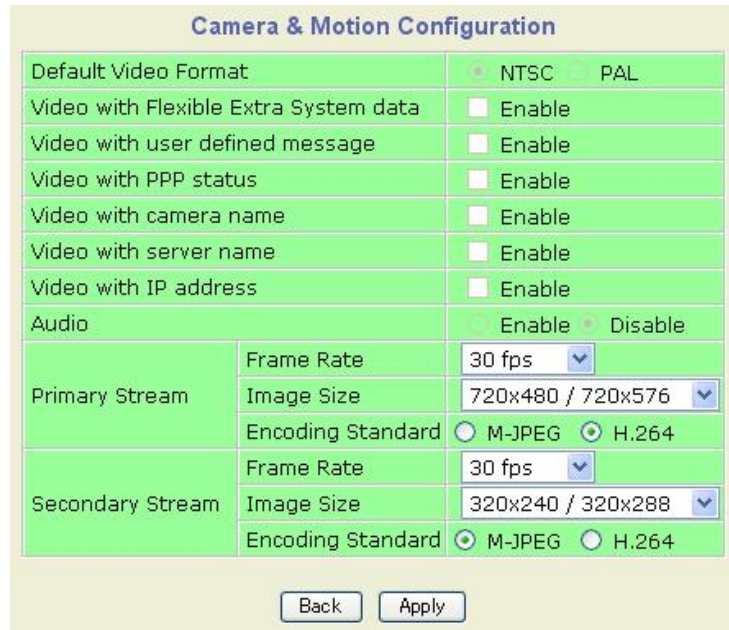
H.264 against M-JPEG:It provides much higher compression, but it is having dropped frames in video data under not very good network condition. It can be set P-frame number independently from I frames,

M-JPEG against H.264:It is required higher compression network bandwidth, but the higher quality still image can be provided.

Note:
The most parameters of Secondary Stream are dependent on Primary Stream parameter value.

6-3-1.Camera & Motion

Click **Camera & Motion** on Menu, below configuration for camera menu is displayed



Default Video Format	Select NTSC or PAL Video System for camera video
Video with Flexible Extra System data	Video with Flexible Extra data is sent from COM port (This function is not implemented)
Video with user defined message	User defined message with Video data is sent (This function is not supported)
Video with PPP status	PPP(Configuration status)data with Video data is sent (This function is not supported)
Video with camera name	Camera name with Video data is sent (This function is not supported)
Video with server name	Sever address with Video data is sent (This function is not supported)
Video with IP address	IP address with Video data is sent (This function is not supported)
Audio	Audio function is to be used(Applies Primary stream of IPD-DM11, IPD-VR11 only),it can be streamed to PC and Audio out from PC speaker.
Frame Rate	Set the frame numbers for Primary Stream, the Secondary Stream numbers shall be under the Primary Stream fame numbers. (setting value:1fps, 2 fps, 3 fps, 5 fps, 10 fps, 15 fps, 30 fps)
Image Size	Select the encode size for Primary Stream and Secondary Stream (setting value:160x112/160x144, 320x240/320x288, 640x480/640x576,704x480/704x576, 720x480/720x576)
Encoding Standard	Select the compression method either M-JPEG or H.264 for Primary Stream and Secondary Stream.

After finished above setup, click **Apply** button to save settings.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen.

6-3-2.Camera Control

Click **Camera Control** item on the Menu, the below camera control button is displayed with camera streaming live video window.



Click the **Menu Enter** button on camera control, then SETUP MENU for camera is displayed on live video window. It is able to setup DAY/NIGHT AGC ,AWB and etc., for camera with operating **Up** · **Down** · **Left** · **Right** and **Enter** buttons.

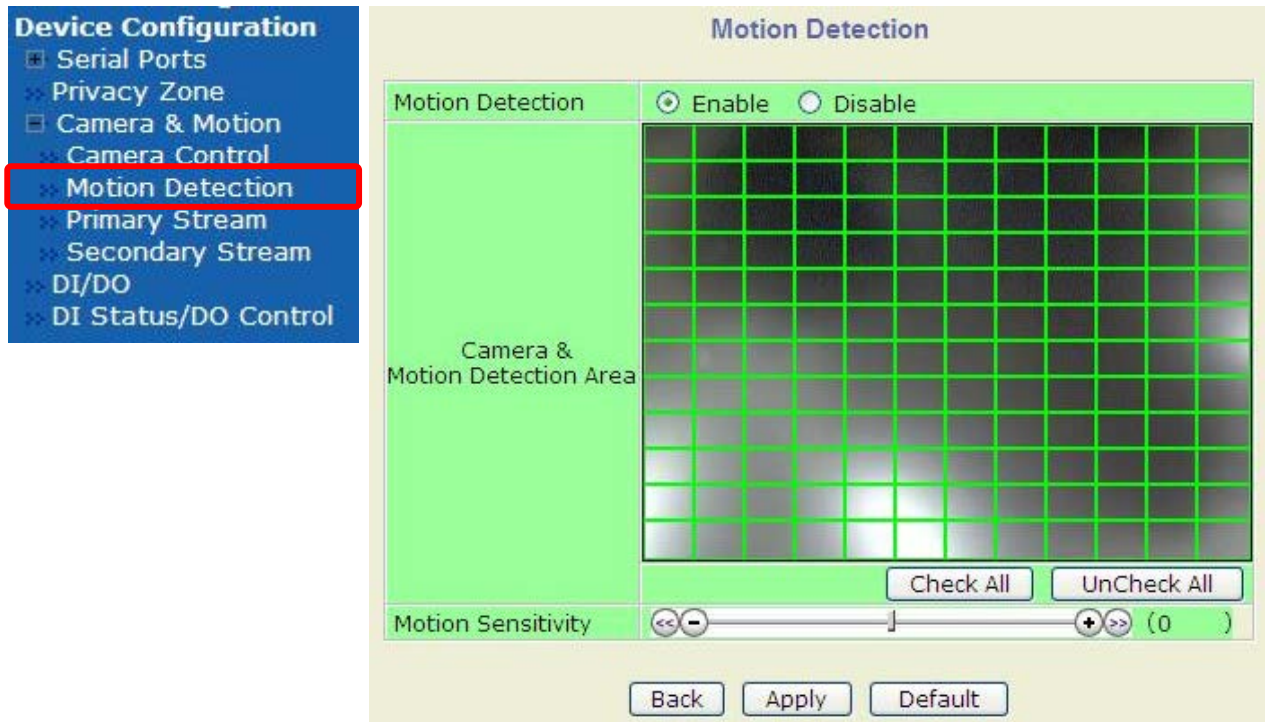
The details of this camera setup is shown on INSTRUCTION MANUAL (BASIC) which is attached in camera package.

Note:

For re-entering after exiting Camera setup menu (OSD), it should be to click **Menu Enter** button after 2 seconds from exiting setup menu.

6-3-3.Motion Detection

Click **Motion Detection** item on Menu, below setup screen is displayed.



This Motion Detection function is worked on only Primary Stream of camera..

It can be defined the motion detection area from 12 x 12 divided areas of screen as above by clicking each divided area.

Motion Detection	Enable:Effect motion detection function. Disable:Stop motion detection function.
Check All	Effect all area for motion detection with one click this button.
UnCheck All	No effect all area for motion detection with one click this button.
Motion Sensitivity	Set the sensitivity of motion defined in Motion Detection area. Select between -100 and 100. The high value is more sensitive.

After finished above setting, click **Apply** button to save.

When click the **Default** button, the setting will be set previous setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

6-3-4.PrimaryStream と SecondaryStream

Click either **Primary Stream** or **Secondary Stream** item on Menu, below setup screen is displayed.

H.264(VBR Mode)

H.264(CBR Mode)

M-JPEG

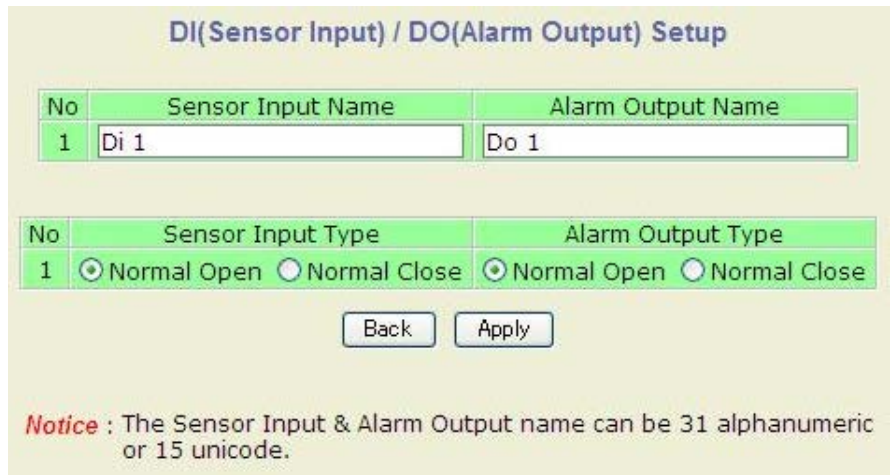
Factory default setting is H.264 for Primary Stream, M-JPEG for Secondary Stream.

Camera Name	Print in Camera name Enter up to 21 alphanumeric characters or up to 10 Unicode.
Rate Control Mode	<p>H.264 VBR(Variable Bit Rate)Mode Video is encoded with selected image quality and GOP. Bit rate is different each encoded video frame.</p> <p>H.264 CBR(Constant Bit Rate)Mode Video is encoded with selected Bit rate and GOP. Bit rate is constant each encoded video frame, but encoded video quality is not stable related camera captured image.</p>
Image Quality	<p>H.264 VBR(Variable Bit Rate)Mode and M-JPEG Select between Low Compression / Highest / High / Normal / Low / Lowest . Low Compression side is realized high quality streaming video, but it is required higher Bandwidth. Lowest side is required lower Bandwidth, but it is given decreased quality image</p>
Bit Rate Control	<p>H.264 CBR(Constant Bit Rate)Mode Select the bit rate between 10Mbps from 32Kbps.</p>
GOP Structure	Set the I frame distance between 1 to 64. This is filled with P-frames.

After finished above setting, click **Apply** button to save. When click the **Default** button, the setting will be set previous setting data. If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

6-4. DI (Sensor Input) / DO (Alarm Output)

Click **DI/DO** item on Menu, below Setup screen is displayed.



It can be set Sensor input and Alarm Output.

Sensor Input Name	Print in Sensor name Enter up to 31 alphanumeric characters or up to 15 Unicode.
Alarm Output Name	Print in Alarm name Enter up to 31 alphanumeric characters or up to 15 Unicode.
Sensor Input Type	Select Normal Open: Normal is OPEN, and goes Closed when triggered by an event. Select Normal Close: Normal is CLOSE, and goes opened when triggered by an event.
Alarm Output Type	Select Normal Open: Normal is OPEN for relayed output, and closed when triggered by event. an event. Select Normal Close: Normal is CLOSE for relayed output, and opened when triggered by an event.

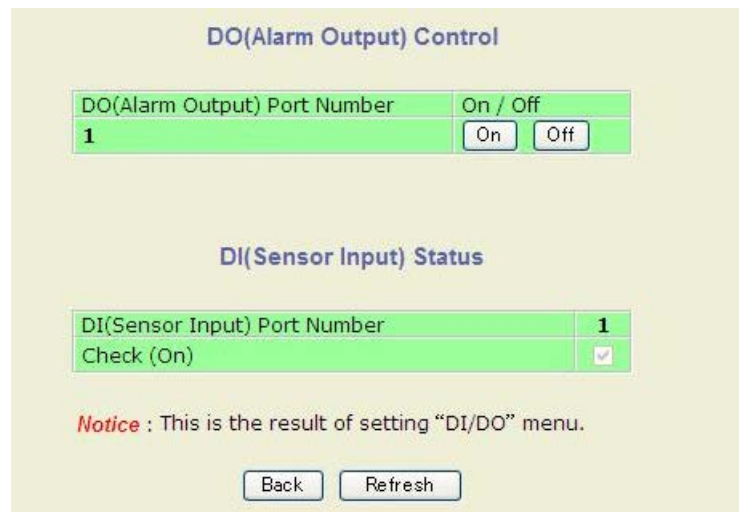
After finished above setting, click **Apply** button to save settings.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

Note:
 Make sure type of the sensor and use it correctly to the type.
 If a Sensor Input is not used, it must be set Normal Open Type to avoid a false input.

6-5. DI(Sensor Input) Status / DO(Alarm Output) Control

Click DI Status/DO Control item on Menu, below.



○DO(Alarm Output) Control

It can simulate the Alarm output as triggered by event.

When click the **On** button and the relay output is closed, click **Off** button and the relay output is opened.

○DI(Sensor Input) Status

It can confirm the Input Status from Sensor.

Through above DO Control click On or Off button, then if the Check mark is on Check(On) field, it means DI/DO is worked completely. If not, it means DI/DO is not worked.

It should be confirmed the setting for DI/DO.

When click the **Refresh** button, the status data will be reset and waiting next click for **On** or **Off** button.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7. Advanced Configuration

In **Advanced Configuration** menu, it can be set the service of E-mail, FTP, Sensor Notification, Alarm Output.

Click **Advanced Configuration** item on Menu, below sub menu is displayed



7-1. Advanced Services

Pre-Alarm buffer size and buffering speed can be defined here.

Click **Advance Services** on Menu, the below setup screen is displayed.

Advanced Services

Total pre-alarm buffer size : **5600** kb
 Current used buffer size : **0** frames

	Ch 1	Ch 2	Sum
Pre-Alarm Buffer Size	<input type="text" value="0"/> (frames)	<input type="text" value="0"/> (frames)	0
Pre-Alarm Speed	Select Spe <input type="button" value="v"/>	Select Spe <input type="button" value="v"/>	

Notice : Pre-alarm buffer size for each camera will be applied for E-mail, and FTP(Buffered) service.
 Please click to "Save" button to apply new changes.

❖ E-mail	Configuration of E-mail service to send pre-post alarm images.
❖ FTP(Buffered)	Configuration of ftp service to send pre-post alarm images.
❖ FTP(Periodic)	Configuration of ftp service to send recent images periodically according to service conditions.
❖ Sensor Notification	Configuration to notify sensor status to predefined IP address.
❖ Alarm Output	Configuration of alarm output duration according to service conditions.

Pre-Alarm Buffer Size	Set the buffer size of Pre-Alarm which is storing image before event in unit frame. Each Channel can be set different numbers of frame which are 10frames maximum in total.
Pre-Alarm Speed	Set the buffering speed between 0.1f/s to 10.0f/s, and Fastest. Each Cannel can be set different speeds.

After finished above setting, click **Apply** button to save setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-2.E-mail

E-mail configuration is set up here for Alarm in case any event occurs.

7-2-1.E-mail (E-mail Service Configuration)

Click **E-mail** item, below setup screen is displayed.

This function is worked in M-JPEG compression mode for image.

Camera1, Camera2	Click here, 7-2-2.Camera (E-mail Service Setup for Each Channel) setup screen on next page is displayed also. (Camera1:Primary Stream, Camera2:Secondary Stream)
Service	Enable:To use this E-mail service Disable:Not to use this E-mail service.
SMTP server address	Enter SMTP server address for sending email.
Authentication Login	Select Enable if SMPT server requires ID and Password.
User ID	Enter User ID to log in SMPT server.
Password	Enter Password to log in SMPT server.
Sender	Enter the email address of the sender.
1st~3rd Recipient	Enter the recipient s email address up to 3 persons.

After finished above setting, click **Save** button to apply setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-2-2.Camera (E-mail Service Setup for Each Channel)

Click **Camera 1** or **Camera 2** item on Menu, below setup screen is displayed.

For each camera, the following Condition1-3, Post-Alarm Buffer Size and Speed, text message and display style can be setup/Configured.

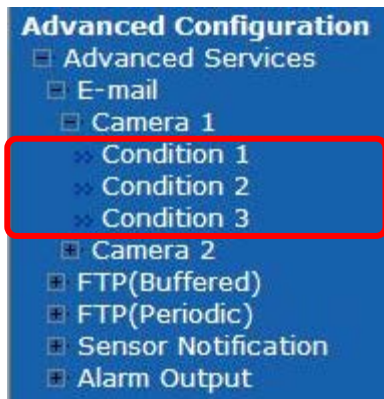
Condition1 ~Condition3	Select the Condition for Email service to be activated. Click here, then 7-2-3.Condition setup screen is displayed.
Pre-Alarm Buffer Size	The Buffer size assigned for Pre-Alarm.
Check Video buffer	Click this to link to 7-1.Advanced Services for buffer setup on page.
Pre-Alarm Images	Set the (size) numbers of image frames to store before Alarm.
Post-Alarm Images	Set the (size) numbers of image frames to store after Alarm between 0 and 10.
Pre-Alarm Speed	This field shows the speed which is setup with 7-1.Advanced Services Pre-Alarm Speed .
Post-Alarm Speed	Set the recording speed for Post alarm images between 0.1f/s to 10.0f/s, and Fastest.
Subject	Subject of the E-mail message to send.
1~4	Contents line 1 to line 4 in the E-mail message.
Value Format	Select the format for the Event or DI data to E-mail. NONE:Don't Send INT:Decimal HEX:Hexadecimal BIN:Binary IPA:IP Address EVT:Name of Event

After finished above setting, click **Save** button to apply setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-2-3.Condition

Click the **Condition 1~3** on the Menu, below setup screen is displayed. The setup procedure of Event and Schedule shall be referred **8-2-2. Condition 1**.



Service	This shows what service is for this condition.
Module ID	Module ID for current setup (Fixed 0)
Camera ID	Camera ID for current setup.
Enable / Disable	Enable:To use this condition Disable:Not to use this condition
Always	This condition applies all the time. (Schedule or Event is not usable)
Schedule Only	Use Week, Time and Date in Condition parameter. If none of weekdays is set , it is activated every day.
Event Only	It is activated only any of the following events occurs. (Sensor, Motion Detection, Sever Booting)
Schedule & Event	It is activated above Schedule and Event conditions.

After finished above setting, click **Save** button to apply the setting data.

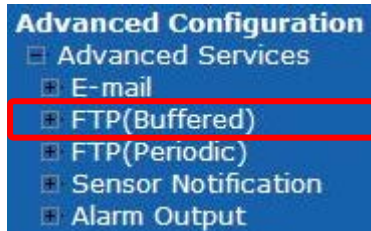
If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-3.FTP(Buffered)

It is able to setup the FTP(Buffered) parameter at Event occurred.

7-3-1.FTP(Buffered)

Click **FTP(Buffered)** item on Menu, below setup screen is displayed. This function is worked in M-JPEG



FTP(Buffered) Service Configuration

Please click the below link to configure FTP(Buffered) service for each camera.

※ Camera 1	※ Camera 2
Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Server Address	<input type="text"/>
Base Directory Name	<input type="text"/>
Base File Name	<input type="text"/>
User ID	<input type="text"/>
Password	<input type="text"/>
FTP Control Port	<input type="text" value="0"/> (Default: 21, 0 ~ 65535)
Date Description Mode	American Style <input type="button" value="v"/>
Connection Mode	<input checked="" type="radio"/> Active <input type="radio"/> Passive

[?](#)

Option	Directory Name	File Name
Server Name	<input type="checkbox"/>	<input type="checkbox"/>
Weekday	<input type="checkbox"/>	<input type="checkbox"/>
Year	<input type="checkbox"/>	<input type="checkbox"/>
Month	<input type="checkbox"/>	<input type="checkbox"/>
Day	<input type="checkbox"/>	<input type="checkbox"/>
Hour	<input type="checkbox"/>	<input type="checkbox"/>
Minute		<input type="checkbox"/>
Sec		<input type="checkbox"/>
Sequence		<input type="checkbox"/>
Camera Number	<input type="checkbox"/>	<input type="checkbox"/>

Camera1, Camera2	Setup screen for 7-3-2.Camera(FTP Service Configuration) is displayed. (Camera1:Primary Stream, Camera2:Secondary Stream)
Service	Enable:To use FTP(Buffered)service Disable:Not to use FTP(Buffered) service
Server Address	Enter FPT Server Address.
Base Directory Name	The base directory name in FTP server where the data will be uploaded. It should be made the directory in FTP server before to use this service.
Base File Name	The base file name of the data to be uploaded in FTP server.
User ID	Enter User ID to log in to FTP server.
Password	Enter the Password to log in to FTP server.
FTP Control Port	Set the Port number for FTP server (Normally 21 is used)
Date Description Mode	Select Date display style. e.g.) ISO Standard (YYYYMMDD)
Connection Mode	Select connection mode for FTP server either Active or Passive.

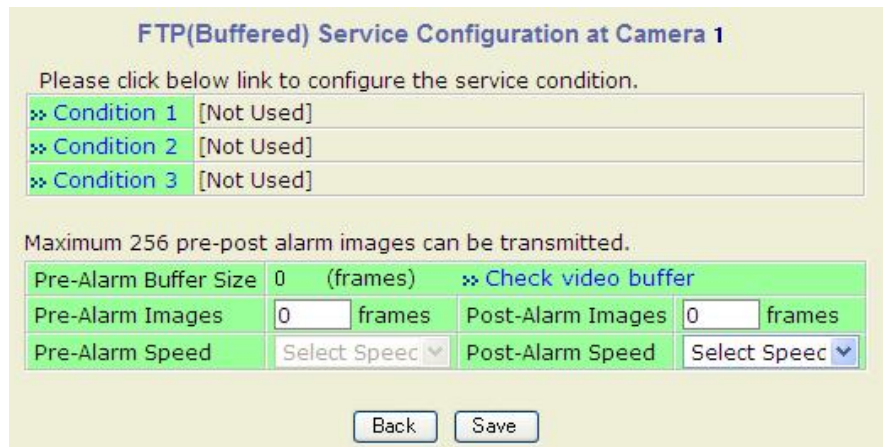
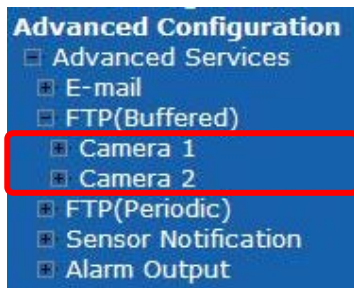
Server Name, Weekday, Month, Day Hour, Minute, Sec	Directory Name box checked:New directory is created for each Option item. File Name box checked:New file is created for each Option.
Sequence	File Name box checked:New file is created starting from 0, with increment of 1
Camera Number	Directory Name box checked:New directory name is created with camera number. File Name box checked:New file is created with camera number.

To create a directory with shown above ,click **Make Directory** button After finished above setting, click **Save** button to apply the setting data and continue to next page.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-3-2.Camera(FTP Service Configuration)

Click **Camera1, Camera2** item on the Menu, below setup screen is displayed.



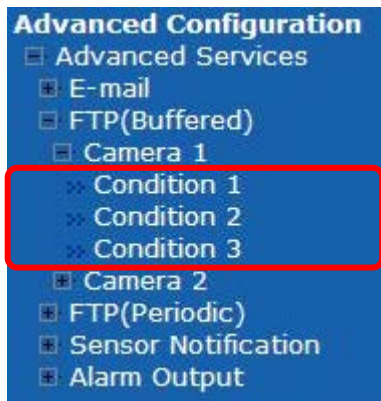
Condition1~ Condition 3	Select the Condition for FTP(Buffered) Service to be activated. Click here, then 7-3-3.Condition setup screen is displayed.
Pre-Alarm Buffer Size	The Buffer size assigned for Pre-Alarm.
Check Video buffer	Link to 7-1.Advanced Services , for setup video buffer screen.
Pre-Alarm Images	The number of image frames to store before Alarm.
Post-Alarm Images	The number of image frames to store after Alarm.
Pre-Alarm Speed	This field shows stored speed which has been set on 7-1.Advanced Services Pre-Alarm Speed .
Post-Alarm Speed	Set the buffering speed between 0.1f/s to 10.0f/s, and Fastest. Each Cannel can be set different speeds.

After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-3-3.Condition

Click **Condition 1~3** on Menu, below setup screen is displayed. The setup procedure of Event and Schedule details shall be referred **8-2-2. Condition 1**.



Condition 1

Service	FTP(Buffered)			
Module ID	0			
Camera ID	1			
Enable <input type="radio"/> Disable <input checked="" type="radio"/>				
<input checked="" type="radio"/> Always <input type="radio"/> Schedule Only <input type="radio"/> Event Only <input type="radio"/> Schedule and Event				
Schedule				
Week Sun Mon Tue Wed Thu Fri Sat <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
<input type="checkbox"/> Time (hh:mm) <input type="text" value="XX"/> : <input type="text" value="XX"/> ~ <input type="text" value="XX"/> : <input type="text" value="XX"/>				
<input type="checkbox"/> Date (mm/dd) <input type="text" value="XX"/> / <input type="text" value="XX"/> ~ <input type="text" value="XX"/> / <input type="text" value="XX"/>				
Event				
1 2 3 4				
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Input Data			<input type="checkbox"/>	
Camera Connected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camera Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boot Finished	<input type="checkbox"/> Enable			
Serial Input	<input type="checkbox"/> Activated			

Service	This shows what service is for this condition.
Module ID	Module ID for current setup (Fixed 0)
Camera ID	Camera ID for current setup.
Enable / Disable	Enable: To use this condition Disable: Not to use this condition
Always	This condition applies all the time. (Schedule or Event is not usable)
Schedule Only	Use Week, Time and Date in Condition parameter. If none of weekdays is set, it is activated every day.
Event Only	It is activated only any of the following events occurs. (Sensor, Motion Detection, Sever Booting)
Schedule & Event	It is activated above Schedule and Event conditions.

After finished above setting, click **Save** button to apply the setting data.

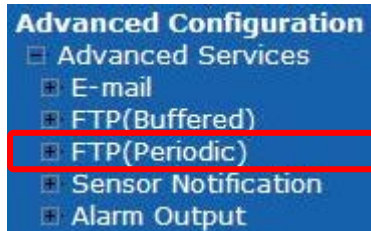
If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-4.FTP(Periodic)

It is able to setup the FTP(Periodic) parameter at Event occurred.

7-4-1.FTP(Periodic)

Click **FTP(Periodic)** item on Menu, below setup screen is displayed. This function is worked in M-JPEG compression mode for image only.



FTP(Periodic) Service Configuration

Please click the below link to configure FTP(Periodic) service for each camera.

※ Camera 1	※ Camera 2
Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Server Address	<input type="text"/>
Base Directory Name	<input type="text"/>
Base File Name	<input type="text"/>
User ID	<input type="text"/>
Password	<input type="text"/>
Sequence Modulo	<input type="text" value="1"/>
FTP Control Port	<input type="text" value="0"/> (Default: 21, 0 ~ 65535)
Date Description Mode	American Style ▼
Connection Mode	<input checked="" type="radio"/> Active <input type="radio"/> Passive

Option	Directory Name	File Name
Overwrite		<input type="checkbox"/>
Server Name	<input type="checkbox"/>	<input type="checkbox"/>
Weekday	<input type="checkbox"/>	<input type="checkbox"/>
Year	<input type="checkbox"/>	<input type="checkbox"/>
Month	<input type="checkbox"/>	<input type="checkbox"/>
Day	<input type="checkbox"/>	<input type="checkbox"/>
Hour	<input type="checkbox"/>	<input type="checkbox"/>
Minute		<input type="checkbox"/>
Sec		<input type="checkbox"/>
Sequence		<input type="checkbox"/>
Camera Number	<input type="checkbox"/>	<input type="checkbox"/>

Camera1-Camera2	Setup screen for 7-4-2.Camera (FTP Service Configuration) is displayed.(Camera1:Primary Stream, Camera2:Secondary Stream)
Service	Enable:To use FTP(Periodic) service Disable:Not to use FTP(Periodic) service
Server Address	Enter FPT Server Address.
Base Directory Name	The base directory name in FTP server where the data will be uploaded. It should be made the directory in FTP server before to use this.
Base File Name	The base file name of the data to be uploaded in FTP server.
User ID	Enter User ID to log in to FTP server.
Password	Enter the Password to log in to FTP server.
Sequence Modulo	Maximum number used in sequential file name.
FTP Control Port	Set the Port number for FTP server (Normally 21 is used)
Date Description Mode	Select Date display style. e.g.) ISO Standard (YYYYMMDD)

Connection Mode	Select connection mode for FTP server either Active or Passive.
Overwrite	File Name box checked:New file overwrites on existing file with same file name.
Server Name, Weekday, Month, Day Hour, Minute, Sec	Directory Name box checked:New directory is created for each Option item. File Name box checked:New file is created for each Option.
Sequence	File Name box checked:New file is created starting from 0, with increment of 1.
Camera Number	Directory Name box checked:New directory name is created with camera number. File Name box checked:New file is created with camera number.

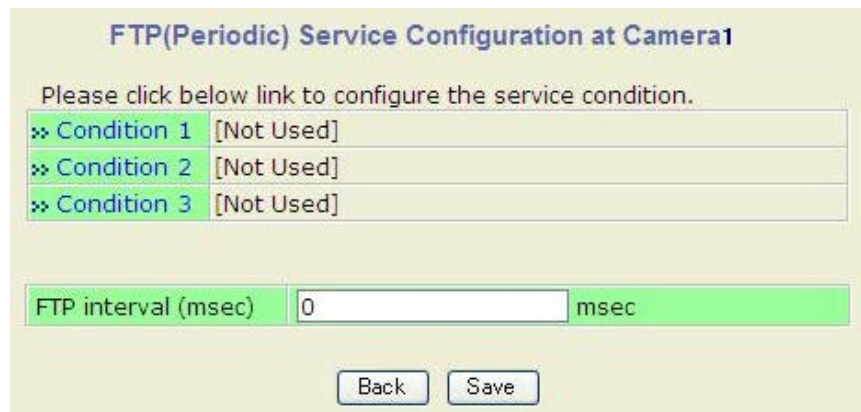
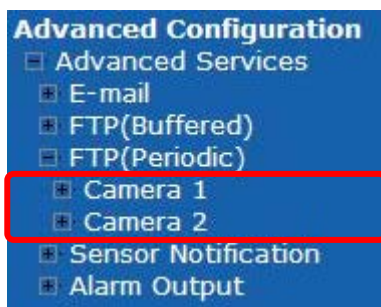
To create a directory with shown above, click **Make Directory** button.

After finished above setting, click **Save** button to apply the setting data and continue to next page.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-4-2.Camera (FTP Service Configuration)

Click **Camera1, Camera2** item on the Menu, below setup screen is displayed



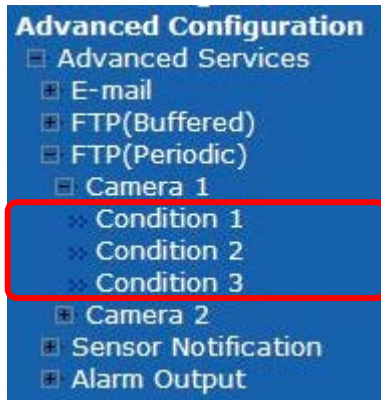
Condition1~ Condition3	Select the Condition for FTP(Buffered) Service to be activated. Click here, then 7-4-3.Condition setup screen is displayed.
FTP interval(msec)	Set interval time for image upload to FTP server in unit 10msec. If it is set number lower than 10, the FTP interval time becomes 0 msec and FTP service is executed without any time interval.

After finished above setting, click **Save** button to save.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-4-3.Condition

Click **Condition 1~3** on Menu, below setup screen is displayed. The setup procedure of Event and Schedule details shall be referred **8-2-2. Condition 1**.



Service	This shows what service is for this condition.
Module ID	Module ID for current setup. (Fixed 0)
Camera ID	Camera ID for current setup.
Enable / Disable	Enable:To use this condition Disable:Not to use this condition
Always	This condition applies all the time. (Schedule or Event is not usable)
Schedule Only	Use Week, Time and Date in Condition parameter. If none of weekdays is set, it is activated every day.
Event Only	It is activated only any of the following events occurs. (Sensor, Motion Detection, Sever Booting)
Schedule & Event	It is activated above Schedule and Event conditions.

After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-5.Sensor Notification

It is possible to setup the Sensor Notification parameters.

7-5-1.Sensor Notification

Click **Sensor Notification** item on Menu, below setup screen is displayed.

Advanced Configuration

- Advanced Services
- E-mail
- FTP(Buffered)
- FTP(Periodic)
- Sensor Notification**
- Alarm Output

Sensor Notification Service Configuration

Please click the below link to configure Sensor Notification service for each camera.

⌘ Input 1
⌘ Input 2

Service	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
Service Mode	<input checked="" type="radio"/> HTTP <input type="radio"/> TCP <input type="radio"/> UDP	
Main IP address	<input type="text"/>	
Aux1 IP address	<input type="text"/>	
Aux2 IP address	<input type="text"/>	
Aux3 IP address	<input type="text"/>	
Port	<input type="text" value="80"/>	(Default:80, 80 ~ 65535)
CGI Path or Alarm Common Message	<input style="width: 100%; height: 100%;" type="text"/>	
User ID	<input type="text"/>	
Password	<input type="text"/>	

Input 1, Input 2	Setup screen for 7-5-2.Input is displayed.
Service	Enable:To use Sensor Notification service Disable:Not to use Sensor Notification service
Service Mode	Select network mode for CGI between HTTP,TCP and UDP.
Main IP address	Enter IP address to use in CGI or other functions.
Aux1 ~ Aux 3 IP address	Enter 3 more addresses to use in CGI or other functions.
Port	Enter the port number for CGI or other functions. Default: 80
CGI Path or Alarm Common Message	Enter the CGI Path or message for other functions.
User ID	Enter User ID to log in.
Password	Enter the Password to log in.

After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-5-2.Input

Click **Input1**, **Input2** on Menu, below screen is displayed.

Condition1~ Condition3	Link to setup screen of 7-5-3.Condition is displayed. It is able to setup for Input of Sensor Notification service condition.
CGI Name or Alarm Port Message	Enter the contents of CGI or Alarm Port Message when it is used.

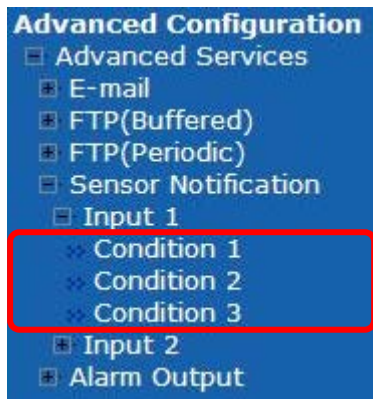
After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-5-3.Condition

Click **Condition 1~3** on Menu, below setup screen is displayed.

The setup procedure of Event and Schedule details shall be referred **8-2-2. Condition 1.**



Service	This shows what service is for this condition.
Module ID	Module ID for current setup (Fixed 0)
Camera ID	Camera ID for current setup.
Enable / Disable	Enable:To use this condition. Disable:Not to use this condition.
Always	This condition applies all the time. (Schedule or Event is not usable)
Schedule Only	Use Week, Time and Date in Condition parameter. If none of weekdays is set, it is activated every day.
Event Only	It is activated only any of the following events occurs. (Sensor, Motion Detection, Sever Booting)
Schedule & Event	It is activated above Schedule and Event conditions.

After finished above setting, click **Save** button to apply the setting data.

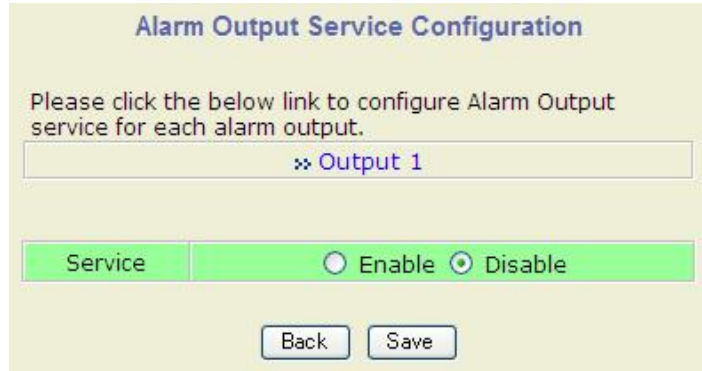
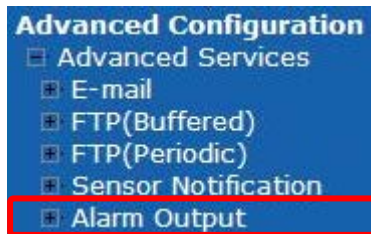
If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-6.Alarm Output

It is able to setup the Alarm Output Service.

7-6-1.Alarm Output

Click **Alarm Output** item on Menu, below setup screen is displayed.



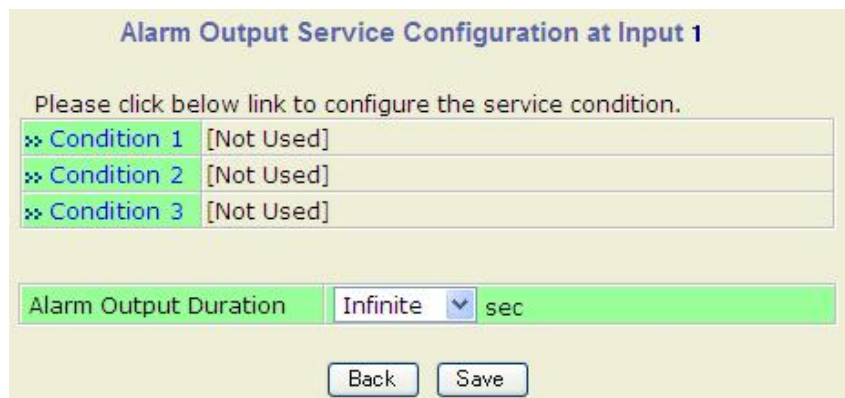
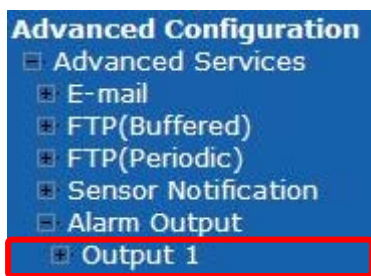
Output 1	Link to setup screen of 7-6-2.Output .
Service	Enable : To use Alarm Output Service Disable : Not to use Alarm Output Service

After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-6-2.Output

Click **Output1** item on Menu, below screen is displayed.



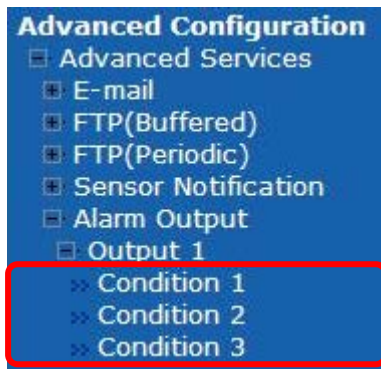
Condition1~ Condition3	Link to Setup screen for 7-6-3.Condition .
Alarm Output Duration	Set the hold time for Alarm trigger between 1 to 30, and Infinite. If Infinite is set, Alarm is kept till cancel operating.

After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

7-6-3.Condition

Click **Condition 1~3** on Menu, below setup screen is displayed. The setup procedure of Event and Schedule details shall be referred **8-2-2. Condition 1**.



Condition 1

Service	Alarm Output
Module ID	0
Camera ID	1

Enable **Disable**

Select Mode

- Always
- Schedule Only
- Event Only
- Schedule and Event

Schedule

Sun Mon Tue Wed Thu Fri Sat

Week

Time (hh:mm) : ~ :

Date (mm/dd) / ~ /

Event

	1	2	3	4
Alarm Sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External Input Data			<input type="checkbox"/>	

Camera Connected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Camera Disconnected	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Boot Finished Enable

Serial Input Activated

Service	This shows what service is for this condition.
Module ID	Module ID for current setup (Fixed 0)
Camera ID	Camera ID for current setup.
Enable / Disable	Enable:To use this condition Disable:Not to use this condition
Always	This condition applies all the time. (Schedule or Event is not usable)
Schedule Only	Use Week, Time and Date in Condition parameter. If none of weekdays is set, it is activated every day.
Event Only	It is activated only any of the following events occurs. (Sensor, Motion Detection, Sever Booting)
Schedule & Event	It is activated above Schedule and Event conditions.

After finished above setting, click **Save** button to apply the setting data.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

8. Recording Configuration

IPD-DM11, IPD-VR11 have the slot for Micro SD card (SD card), which is supported 1GB to 32Gb. If the SD card is in slot, it can be recorded the Video and Audio of camera IPD-DM11, IPD-VR11. Click Recording Configuration item on Menu, the below screen is displayed.

Recording Configuration	
This category shows the detailed method for Recording Service configuration.	
※ SD Configuration	For SD formatting & initialization. Please remember that you must set this configuration before the recording.
※ Recording Configuration	Configure recording configuration for each Camera.
※ Recording Profile	View all recording configurations.
※ Recording Mode	Configure recording mode.
※ SD Status Report	Configure Disk Full Notification.
※ Clear Recording Configuration	Clear condition for recording.
※ Delete Recorded Data	Delete all recorded data.

SD Configuration	The SD card information is shown on Screen. To do Formatting and initializing the SD card in the camera SD slot.
Recording Configuration	Set the Recording conditions for each camera.
Recording Profile	Display the Recording conditions which have been setup.
Recording Mode	Select recording mode when SD card capacity becomes full of video data.
SD Status Report	Set the Notifications for SD full, SD capacity, SD Error.
Clear Recording Config	Clear settings for Recording configuration which had been made.
Delete Recorded Data	Delete the recorded Image data.

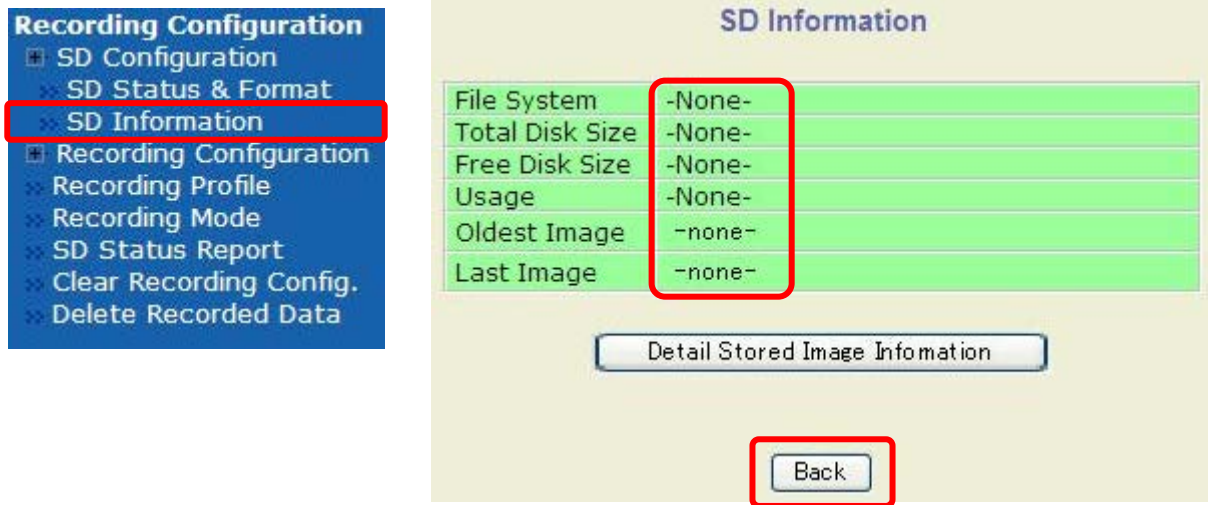
8-1. SD Configuration

If SD card is needed to insert the camera, it should be turned off the power of the camera before insert SD card.

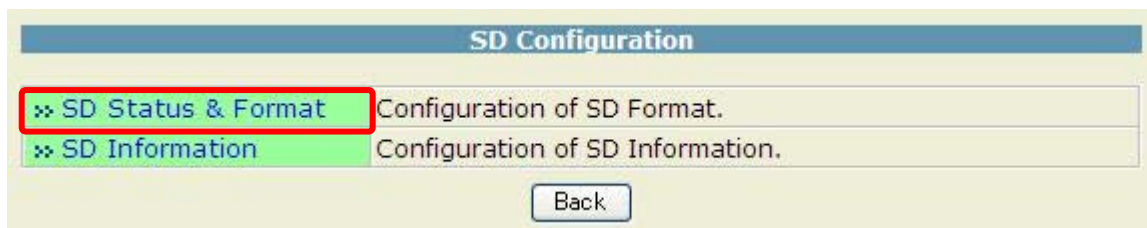
Note:

- Be sure to turn off the power of camera before insert the SD card, If not the SD card may become defect.
- Always check the recommended type of SD card, non-conformed SD card can cause abnormal work of the System.

After inserted the SD card, turn on the power of camera, login the camera with IE.
 Click **SD Information** item on Menu, below screen is displayed.



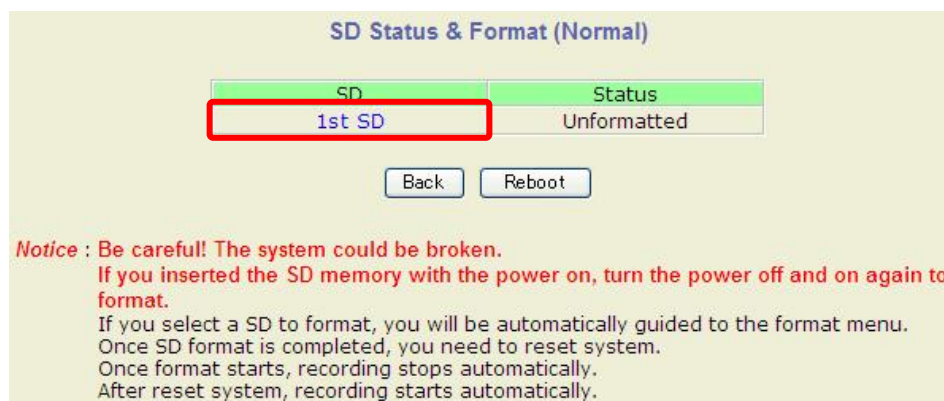
If entire SD information is shown as **-None-** , it means the SD card is not formatted. In that case, click **Back** button and click **SD Status & Format** item on followed screen displayed.



Now the below screen is displayed which is showing the list of available SD card.

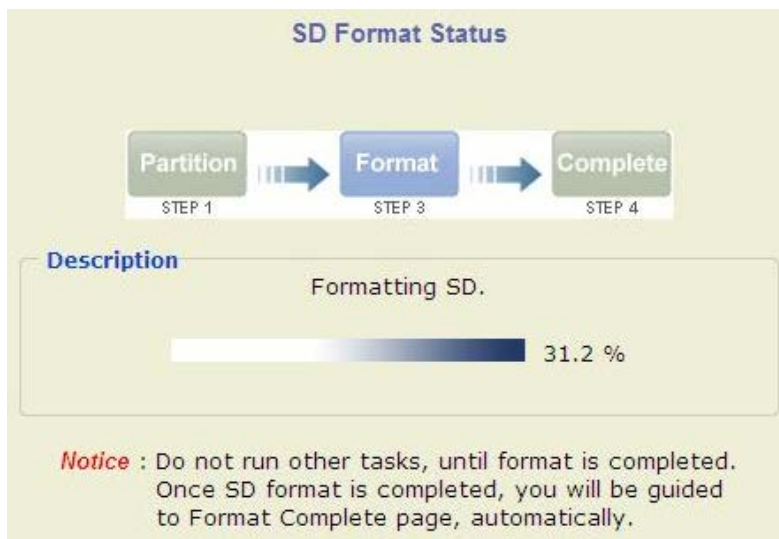
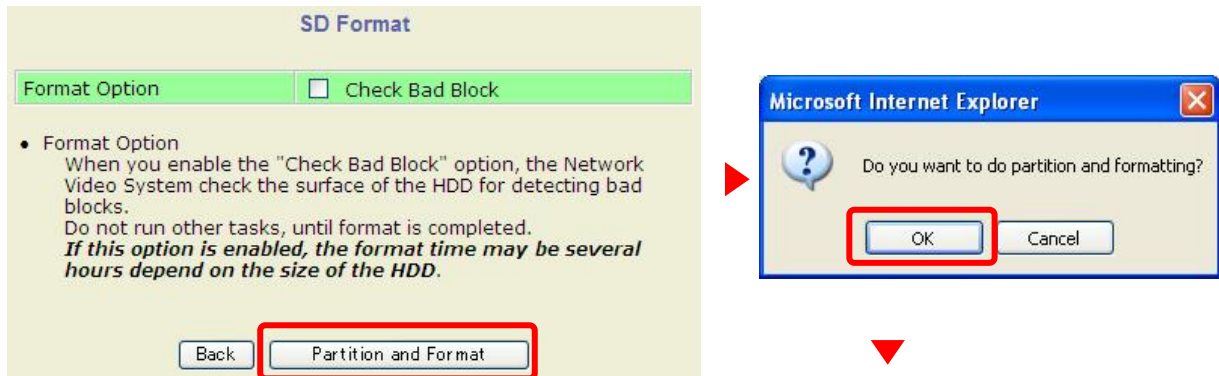
Unformatted:The SD card is not formatted.

Formatted :The SD card is formatted.



To perform the auto formatting for unformatted SD card on above screen, click **1st SD** item.
 After finished the formatting, it is needed to reboot the camera.

Then below window is displayed. Click **Partition and Format** button, pop up window to confirm the formatting. Click **OK** button then the formatting is proceed, and it is shown below SD Format Status screen, **Check Bad Block** of Format Option is able to check the damaged bad block of SD card. If select this option, the formatting time may be several hours depend on the size of SD card.



Note:

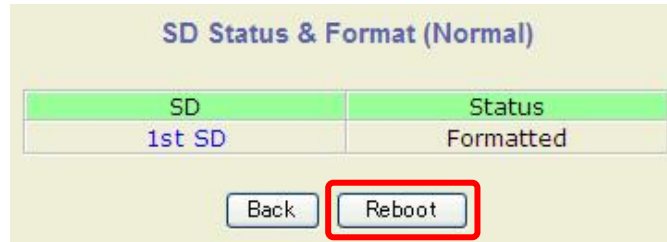
If the formatting program is terminated during the format process by causing Power is stopped e.g., the SD card may be damaged.

To avoid this problem, make sure to close the program in right way /manner and check the SD card for formatting result.

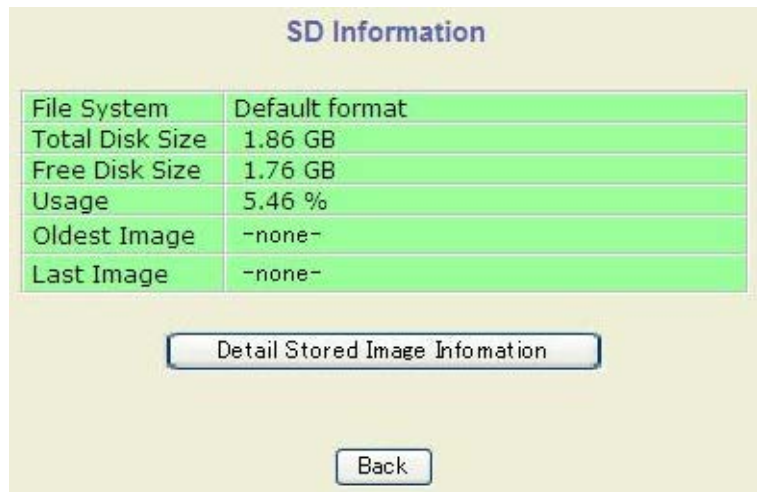
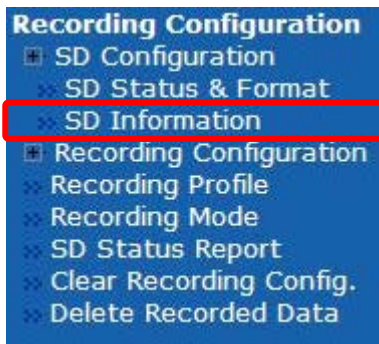
After formatting is finished, below window is pop up for informing it. Click **OK** button.



SD Status & Format screen is displayed, it is able to show the 1st SD is formatted. After confirm this Formatted status, click the **Reboot** button to restart the camera. This rebooting takes 1 to 2minutes.

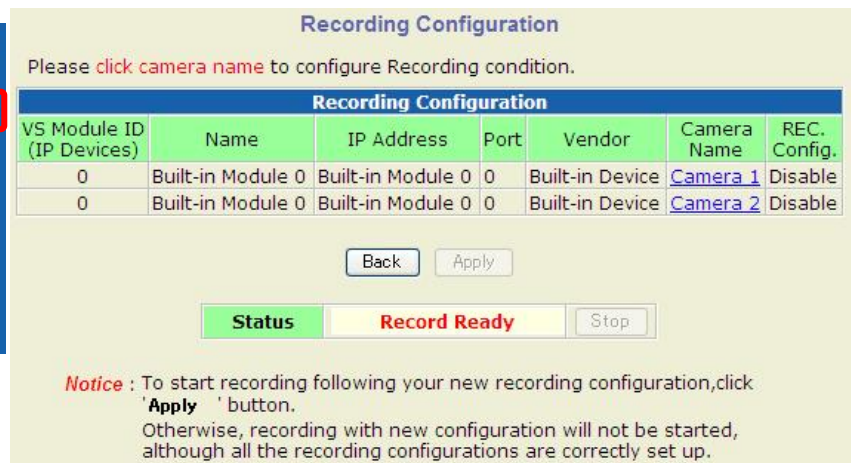
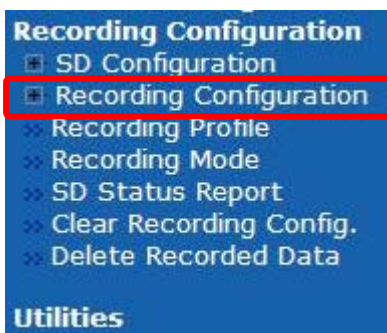


After rebooted the camera, login the camera with IE. And click **SD Information** item on Menu, it is able to show the SD card formatted result on displayed screen as below. (The below screen shows SD card 2GB e.g.)



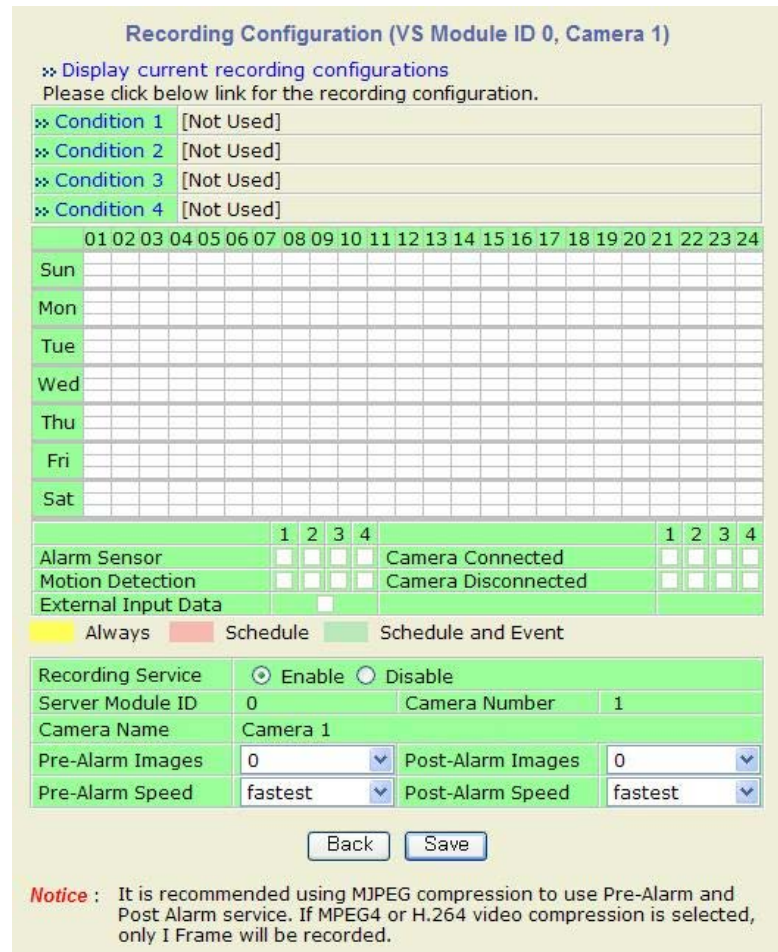
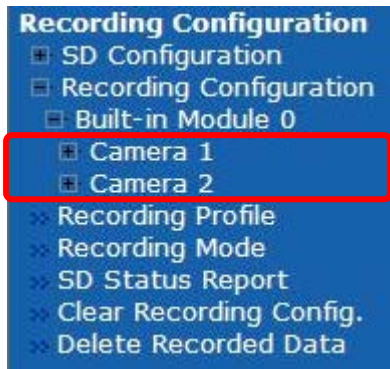
8-2.Recording Configuration

Camera1 (Primary Stream) and Camera2 (Secondary Stream) can be setup for recording option which are included Motion detection recording,24hour continuous recording, event-driven recording, and etc. (2-5.Step 5:Recording Configuration is displayed same screen)



8-2-1.Camera

Click **Camera1**, **Camera2** item on Menu, below setup screen is displayed.



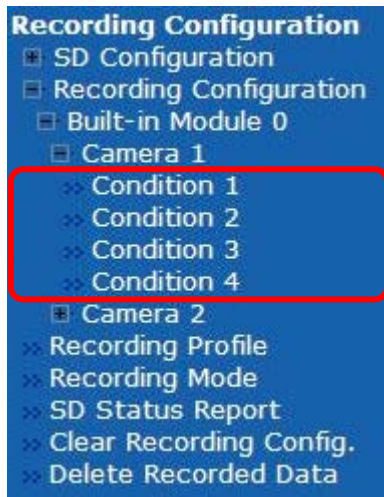
Condition 1~4	Set up screen is displayed as 8-2-2. Condition 1 .
Recording condition table for 24 hours weekly	Graphic displays recording condition (Always, Schedule, Schedule & Event) on table of time and days of week.
Recording Service	Enable: To use this record function. Disable: Not to use this record function.
Server Module ID	Fixed 0
Camera Number	1: Camera 1 Primary Stream. 2: Camera 1 Secondary Stream.
Camera Name	It shows entered Camera name Up to 31 alphanumeric characters or up to 15 Unicode.
Pre-Alarm Images	Set the image frames up to 5 frames to record before Event occurs. Valid only for set Event mode recording.
Pre-Alarm Speed	Set the recording speed before Event between 0.1f/s to 10.0f/s, and Fastest. Valid only for set Always or Schedule mode recording.
Post-Alarm Images	Set the image frames up to 5 frames to record after Event. Valid only for set Event mode recording.
Post-Recording Speed	Set the recording speed after Event between 0.1f/s to 10.0f/s, and Fastest. Valid only for set Event mode recording.

Follow the above screen and set up the recording speed, camera name Pre-Alarm and Post Alarm images . After set up them properly, click **Save** button to save settings.

Pre-Alarm and Post Alarm images are recommended M-JPEG. If it is selected H.264, only I frame is recorded. Each Camera1, Camera2 can be set different Condition 1~4 .

All the conditions are checked and worked by OR logic, so it will start recording when at least one of the conditions it meets.

8-2-2. Condition 1



The image shows the "Condition 1" configuration screen. It includes fields for Service (Recording), Module ID (0), and Camera ID (1). There are radio buttons for "Enable" and "Disable" (selected). Under "Select Mode", there are radio buttons for "Always" (selected), "Schedule Only", "Event Only", and "Schedule and Event". The "Schedule" section has a weekly grid and time/date input fields. The "Event" section has a table with columns 1-4 and rows for Alarm Sensor, Motion Detection, External Input Data, Camera Connected, and Camera Disconnected. At the bottom are "Back" and "Save" buttons. A notice at the bottom states: "Notice : Motion Detection can be set at Device Configuration -> Camera & Motion -> Camera. Alarm Sensor can be set at Device Configuration -> DI/DO".

Caution:

○Event : Alarm Sensor details can be set by **6-4.DI (Sensor Input) / DO (Alarm Output)**.

○Event : Motion Detection details can be set by **6-3-3.Motion Detection**.

○Event : Number 1,2 are referred Stream number or motion detection.

If the number box is checked, it means Event recording had been set with this number for Sensor/Motion detect. If two number boxes are checked together, the recording is enabled only when two Sensor/Motion detect are activated.

○If it is used Motion Detection for Event , the detection area and Enable should be set by **6-3-3.Motion Detection**.

Service		This shows what service is for this condition.
Module ID		Module ID for current setup. (Fixed 0)
Camera ID		Camera ID for current setup.
Enable / Disable		Enable:To use this condition Disable:Not to use this condition
Select Mode	Always	Recording is enabled all the time. It is not able to set Schedule and Event .mode.
	Schedule Only	Recording is done by setup schedule.
	Event Only	Recording is controlled by Event setting condition. (e.g. Sensor Input, Motion Detection)
	Schedule and Event	Recording is controlled by both Schedule and Event.
Schedule	Week	Set the day of week for Recording. If Week is not set, it is taken all week.
	Time	Set the Time of day for Recording. If Time is not set, it is taken 24 hours day.
	Date	Set the date(month/day) for Recording. If Date is not set, it is taken all the months.
Event	Alarm Sensor	Each of 1,2 refers to the Stream number, and checked when Event driven recording is selected. If two sensors are checked together, recording is enabled only when two sensors are activated. (IPD-BX11,IPD-DM11,IPD-VR11 are functioned with Alarm Sensor number 1 and 2 only)
	Motion Detection	Each of 1,2 refers to the Stream number, and checked when Motion Detection recording is selected. If two sensors are checked together, recording is enabled only when two sensors are activated. (IPD-BX11,IPD-DM11,IPD-VR11 are functioned with Sensor number 1 and 2 only) When this function is need to use, before it should be set up the 6-3-3.Motion Detection .
	Camera Connected	No functioned for IPD-BX11,IPD-DM11,IPD-VR11)
	Camera Disconnected	No functioned for IPD-BX11,IPD-DM11,IPD-VR11)

Below is explanation for setup done screens e.g.

- **Condition1:**The recording is done by every Saturday and Sunday of week. And it is controlled Schedule setup contents and Event occurred.
- **Time(hh:mm):**In this case, not setup it, this means all day 24hours scheduled.
- **Week (Days) :**In this case, not setup it, this means all week scheduled.
- **Date (mm/dd)** In this case, not setup it, this means all months scheduled.
- When it is clicked **Save** button, then below Recording Configuration Screen is displayed. It can be confirmed the setup results of Recording Condition.
- If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

- When it is clicked Save button on above **Condition1**, Recording Configuration Screen is displayed as right screen.
- **Condition1:**This field shows ,SUN,SAT schedule recording, and M1(Motion Detect 1), D1(Alarm Sensor 1) Event recording setting. Also this setting condition is shown graphically on table of 24hours/Weekly.
- when it is needed to record, to select **Enable** radio button of **Recording Service**. If not, select **Disable** radio button.
- **Pre-Alarm** and **Post-Alarm** fields can be set recording conditions for before and after of Event.

The detail is referred to

8-2-3.Pre-Alarm & Post-Alarm Configuration Example.

After finished above setting, click **Save** button to apply the setting data and below screen is displayed.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display

The screenshot shows a 'Recording Configuration' screen. At the top, it says 'Please click camera name to configure Recording condition.' Below this is a table with the following data:

VS Module ID (IP Devices)	Name	IP Address	Port	Vendor	Camera Name	REC. Config.
0	Built-in Module 0	Built-in Module 0	0	Built-in Device	Camera 1	Enable
0	Built-in Module 0	Built-in Module 0	0	Built-in Device	Camera 2	Disable

Below the table are two buttons: 'Back' and 'Apply'. Underneath these is a 'Status' field showing 'Recording' in red text, with a 'Stop' button to its right. A notice at the bottom states: 'Notice : To start recording following your new recording configuration,click 'Apply ' button. Otherwise, recording with new configuration will not be started, although all the recording configurations are correctly set up.'

The recording status is shown on **Status** field of above screen. If the video is already being recorded, the **Status** is displaying **Recording** as above.

If new recording condition are setup properly and the video is not being recorded at the moment, it is needed to click the **Record** button to start recording.

When the conditions is meet the setup value in recording condition, the video is recorded to the SD card.

Note:

The **Stop** button as above screen is displayed in Recording Status.

When it is needed to stop the recording, click the **Stop** button.

Then recording is stopped and Stop button is changed to **Record** button for waiting record start operation.

8-2-3.Pre-Alarm & Post-Alarm Configuration Example

Setup e.g. 1) Condition1:Select Mode is set either **Always** or **Schedule**

Pre-Alarm Images	5	Post-Alarm Images	5
Pre- Alarm Speed	1 fps	Post- Alarm Speed	10fps

Under this mode, Pre-Alarm Speed is effected, then the recording speed is 1fps.
Other setting values for Items are not affected.

Setup e.g. 2) Condition1:Select Mode is **Event Only**(Motion,Sensor)

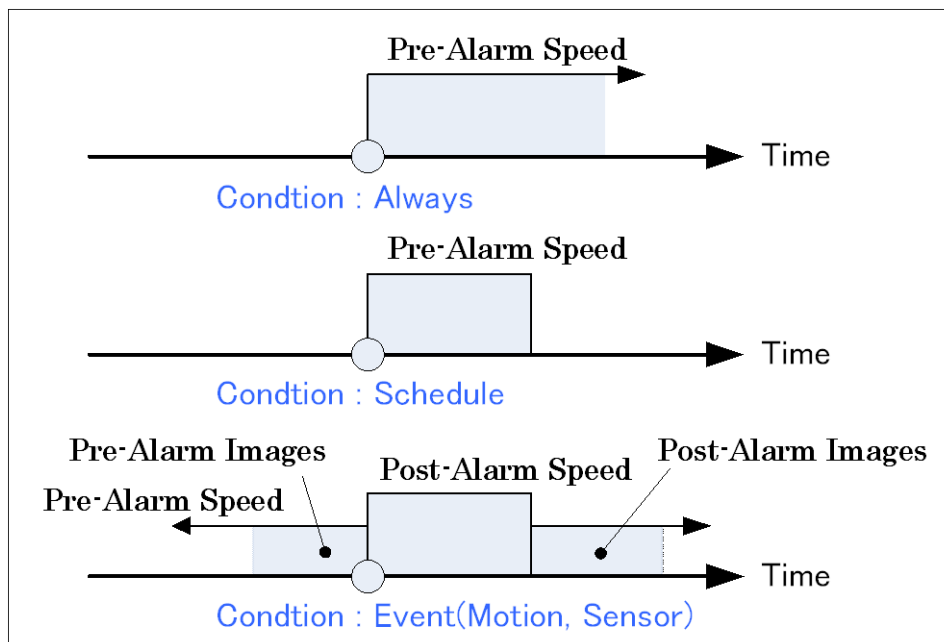
Pre-Alarm Images	5	Post-Alarm Images	5
Pre- Alarm Speed	1 fps	Post- Alarm Speed	10fps

Under this mode, **Pre-Alarm Speed / Post-Alarm Speed** and **Pre-Alarm Images / Post-Alarm Images** are effected. Then Pre-Alarm recording is done by 1fps recording speed and 5 frames. This means Pre-Alarm recording time is 5seconds.

Also Post-Alarm recording is done by 10fps recording speed and 5 frames. This means Post-Alarm recording time is 0.5 second.

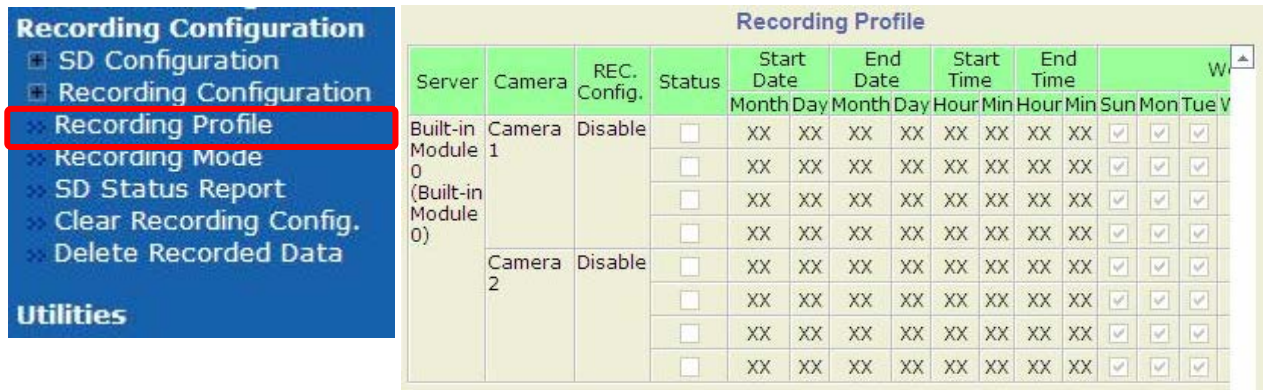
The above recording working status shown below as graphic.

If there are two recording conditions setup, it can start recording when at least one condition is met.



8-3. Recording Profile

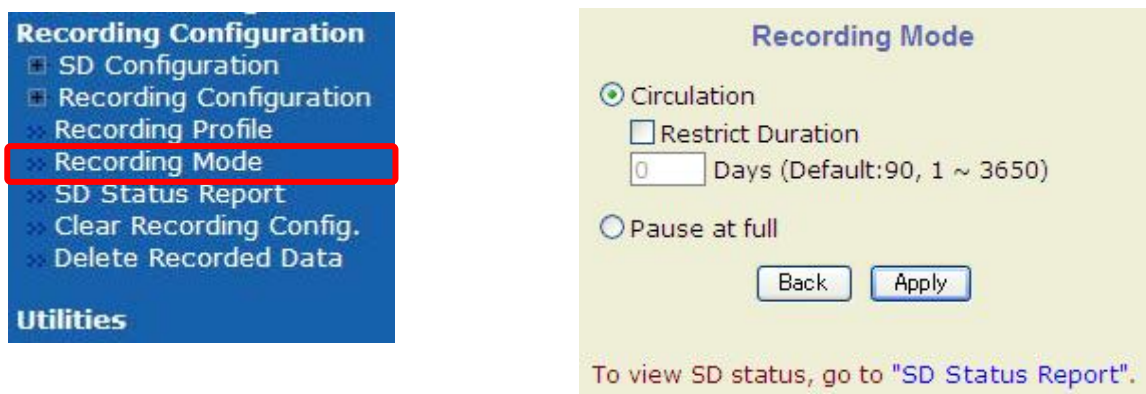
Click **Recording Profile** item on Menu, below screen is displayed. It can be confirmed and checked the setting for record condition of camera.



8-4. Recording Mode

Click **Recording Mode** item on Menu, below screen is displayed.

It can be selected the action either Circulation or Pause at full in case of the SD card capacity is full by recorded video data during the recording.



- **Circulation:** To overwrite the new recording data on oldest record data.
The oldest file (630MB) on the SD card is deleted when it is full of recorded data, and made space.
- **Pause at full:** To stop the recording, when the SD card is full of recorded data, and display STOP Status information on screen.
- The base file size for recorded video is 630MB in SD card.

Circulation Colum

If check the box of **Restrict Duration**, the Days setting field is enabled to enter numbers of Days. The default is 90 days and it can be changed between 1 and 3650. For instance, if it is set 3 days, only the video data since the 3days ago will be kept in SD card, and rest space can be overwritten.

Pause at full

The SD capacity information can be sent by E-mail to setting address, so it can be to know before the SD card is full by this Email receiver. (Refer **8-5.SD Status Report**)

8-5.SD Status Report

Click **SD Status Report** item on Menu, below screen is displayed.



The screenshot shows the 'SD Status Report' configuration screen. It has a light green background. At the top, there are three rows of settings: 'Disk Full Notification' with radio buttons for 'Enable' and 'Disable' (selected), 'Periodic Notification' with radio buttons for 'Enable' and 'Disable' (selected), and 'SD Error Notification' with radio buttons for 'Enable' and 'Disable' (selected). Below these is a 'Day' section with checkboxes for SUN, MON, TUE, WED, THU, FRI, and SAT. A 'Time (hh:mm)' field is set to '00 : 00'. Below that is an 'SMTP Server' section with a text input field, 'Authentication Login' with radio buttons for 'Enable' and 'Disable' (selected), 'User ID' with a text input field, 'Password' with a text input field, 'Sender' with a text input field, '1st Recipient' with a text input field, '2nd Recipient' with a text input field, and '3rd Recipient' with a text input field. A section for 'User-Defined Message' is indicated by '======' and contains four empty text input lines. At the bottom, there are 'Back' and 'Apply' buttons. A red 'Notice' at the bottom states: 'Notice : 'Disk Full Notification' will be activated when 'Pause at full' is selected.'

It can be sent the capacity information of SD card by E-mail, through this setting.

It is useful in case of selected **Pause at full** of setting **8-4.Recording Mode**.

Disk Full Notification	Select Enable to use this function.
Periodic Notification	Select Enable if it is needed to receive the SD capacity information on selected Day of week and Time.
Day & Time	Set the Day of week and Time to receive the Notification by email.
SD Error Notification	Select Enable if it is needed to receive Notification of SD Error.
SMTP Server	Enter IP address of SMTP server for email service.
Authentication Login	Select Enable if SMTP server requires ID and Password.
User ID	Enter User ID to login SMTP server.
Password	Enter Password to login SMPT server.
Sender	Enter the email address of the sender.
1st~3rd Recipient	Enter the recipient s email address up to 3 persons.
User Defined Message	Enter the contents of the message to add in the notification, if it is needed.

After finished above setting, click **Apply** button to save.

If click **Back** button, new setting data will be cancelled and the screen will be back to previous screen display.

8-6. Clear Recording Config

Click **Clear Recording Config** item on Menu, below window is displayed.

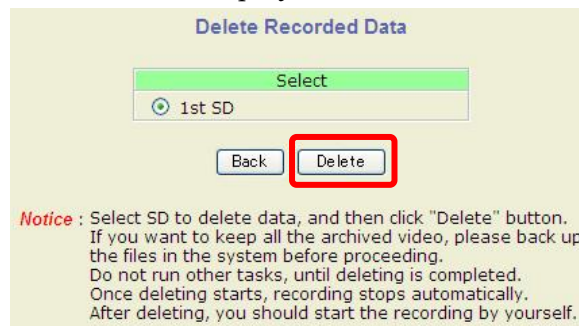
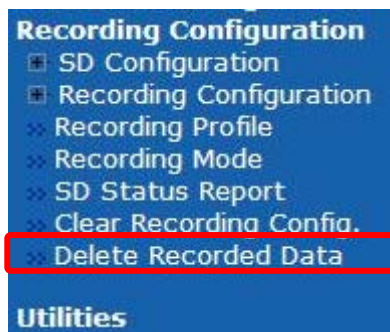


Click **Clear** button on above window. Then pop-up confirmation window is displayed, click **OK** button to clear all Recording Configuration data in camera.

This function is useful to clear the configuration for multiple cameras at once.

8-7. Delete Recorded Data

Click **Delete Recorded Data** item on Menu, below window displayed.



It can be deleted all stored video data by this function.

Select SD card radio button to be delete and click **Delete** button on above window.

Then pop-up confirmation window is displayed, click **OK** button to delete all stored video data in SD card of camera.

9. Utilities

This function has useful common setting Items and checking Items.

System Log, Save Configuration, Reboot, Factory, Default, System, Update

Also it has Player on Utilities menu (only shown when SD card is inserted to SD slot of IPD-DM11&IPD-VR11) can playback recorded video files in SD card and backup it.

Please refer INSTRUCTION MANUAL(PPLAYER INSTRUCTION) as separate volume.

W/O Player Menu



Utilities	
This category shows the detailed method for Utility configuration.	
❖ System Log	View System Log.
❖ Save Configuration	Update the flash memory by new configured data, which is not versatile.
❖ Reboot	Reboot the system.
❖ Factory Default	Set by factory default mode and data
❖ System Update	Update web or firmware.

With Player Menu

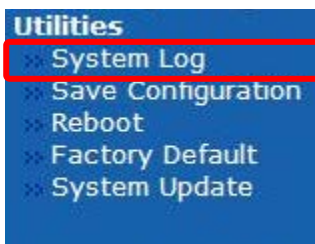


Utilities	
This category shows the detailed method for Utility configuration.	
❖ Player	Play recorded video.
❖ System Log	View System Log.
❖ Save Configuration	Update the flash memory by new configured data, which is not versatile.
❖ Reboot	Reboot the system.
❖ Factory Default	Set by factory default mode and data
❖ System Update	Update web or firmware.

9-1. System Log

Click **System Log** item on Menu, below login list is displayed on screen.

The displayed items of login list are follows for each line Day of Week, Month, Day, Hour:Minute:Second, Year Category, IP Address, User ID.



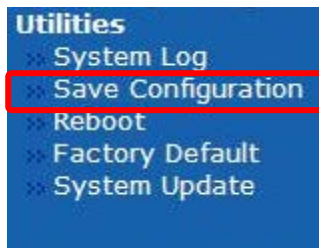
System Log			
Thu Aug 29 14:33:18	Home :	192.168.1.1	(null)
Thu Aug 29 14:33:19	Admin:	192.168.1.1	(null)
Thu Aug 29 14:33:20	Admin:	192.168.1.1	root
Thu Aug 29 14:33:26	Live :	192.168.1.1	root
Thu Aug 29 14:35:45	Live :	192.168.1.1	root
Thu Aug 29 14:36:02	Admin:	192.168.1.1	root
Thu Aug 29 14:36:26	Admin:	192.168.1.1	root
Thu Aug 29 14:36:29	Admin:	192.168.1.1	root
Thu Aug 29 14:36:31	Admin:	192.168.1.1	root
Thu Aug 29 14:36:34	Admin:	192.168.1.1	root
Thu Aug 29 14:36:36	Admin:	192.168.1.1	root
Thu Aug 29 14:36:38	Admin:	192.168.1.1	root
Thu Aug 29 14:37:01	Live :	192.168.1.1	root
Thu Aug 29 14:37:05	Admin:	192.168.1.1	root
Thu Aug 29 14:37:34	Live :	192.168.1.1	root
Thu Aug 29 14:37:38	Admin:	192.168.1.1	root

Back

9-2. Save Configuration

Click **Save Configuration** on Menu, below window is displayed. (Not used this function)

Same as 2-6.Finish:Save Configuration

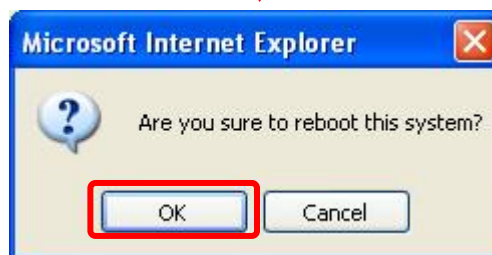
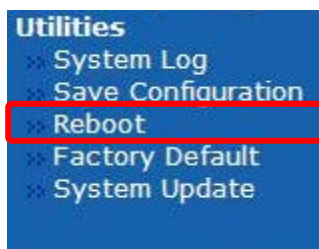


The Configuration data (setup data) for IPD-BX11 / IPD-DM11 / IPD-VR11 camera is saved by each configuration (setup) step with **Save** button, thus this function is not used for these cameras.

If click **Back** button, the window screen will be back to previous screen display.

9-3. Reboot

Click **Reboot** item on Menu, below window is displayed.



It is recommended to reboot the camera after configuration (setup) changed and saved for camera. To reboot, click **Reboot** button on displayed window, and click **OK** button on pop-up confirmation window as above to start the rebooting.

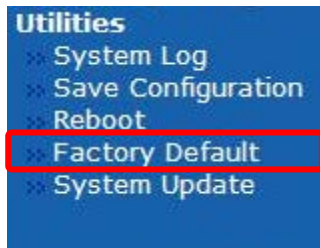
Then next pop-up window is displayed, it is only to confirm closing of web browser for connected camera.

If it is clicked **Cancel** button, the web browser is still opened, but it can be not access the camera until the rebooting is finished.

This rebooting takes about 1 to 2 minutes.

9-4.Factory Default

Click **Factory Default** item on Menu, below window is displayed.

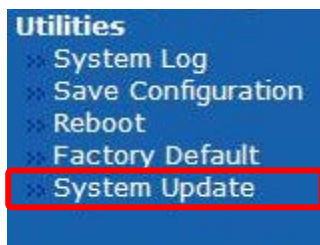


All configuration(setup)data is restored with factory default data except IP address of camera.

Click **Factory Default** button on above window. Next click **OK** button on pop-up window for confirmation. Then camera configuration(setup) data is back to factory default except IP address. If it is clicked **Cancel** button, the window will be back to previous screen display.

9-5.System Update

Click **System Update** item on Menu, below screen is displayed



Note:

- The camera might be in trouble if this update work is not correctly done. Please ensure to read carefully below instructions and to take proper procedure step by step.
- For latest Update file , refer to the dealer directory.
- Do not power off during Update work.

9-5-1.All(Firmware, RAM disk, System, Web) Update

【Step 1】



Click the **Start** button on the line of **All(Firmware, RAM disk, System, Web) Update**.
And the confirmation pop-up window is displayed. Click **OK** button on it, then start the update work by followed screen display.

If click **Cancel** button, the window will be back to previous screen display.

【Step 2】

Firmware Upload



Click **Browse** button, it can be found and selected the firmware image file "**a_ker_ds**" in PC.

Once the firmware image file is selected, click **Next** button to proceed.

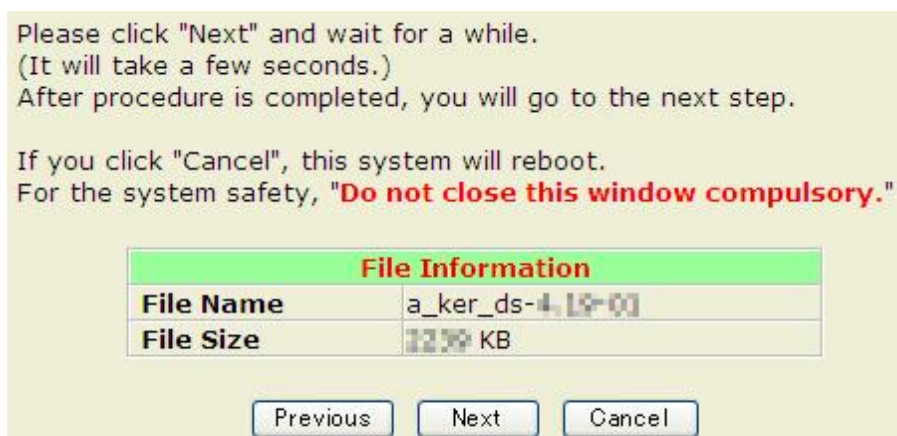
If click **Skip** button, it is skipped current file Update (skip to STEP4 shown).

Note:

○If the Pop-up window is not display on PC, it should be disabled pop-up blocker for IE

【Step 3】

Firmware Confirm



It can be checked file name and size of selected Update firmware image file.

After checked the file, click **Next** button then this file "a_ker_ds" is uploaded in camera and proceeded next step. If click **Previous** button, this screen is backed Step 2 screen

If it is needed to stop the Update procedure, click **Cancel** button.

The camera is rebooted automatically with previous firmware.

The below **Step4**, **Step5** and **Step6** proceeding follow same step as **Step2** and **Step3** above.

【Step 4】
RAM disk
File Upload

Please upload "a_rfs_ds.gz " file for RamDisk.
If you don't want to upload this, click "Skip" to go to the next step.
For the system safety, **"Do not close this window compulsory."**

Select file :

【Step 5】
System
File Upload

Please upload "a_sys_ds.tar.gz " file for System.
If you don't want to upload this, click "Skip" to go to the next step.
For the system safety, **"Do not close this window compulsory."**

Select file :

【Step 6】
Web
File Upload

Please upload "a_web_ds.tar.gz " file for Web.
If you don't want to upload this, click "Skip" to go to the next step.
For the system safety, **"Do not close this window compulsory."**

Select file :

【Step 7】
Upload finished



After all ("Firmware", "RAM disk", "System", "Web")Upload(included Skip proceed) is finished, above confirmation screen is displayed.

When this all Upload proceeding is all right, click **Next** button to execute the Update processing which is shown next displayed window.

If this all Upload proceeding has is not all right, click **Factory Default** button to back the Update file version which had been done by Factory. It will back Factory default except IP address.

【Step 8】
Update finished



After all Update processing is done, above window is displayed.

Click the **Reboot** button to reboot the camera.

9-5-2. System and Web Update

This function is not supported



To proceed the Update, go through same steps from **Step 5** to **Step 8** of 9-5-1.All(Firmware, RAM disk, System, Web) Update.

9-5-3. Web Only Update

This function is not supported



To proceed the Update, go through same steps from **Step6** to **Step8** of 9-5-1.All(Firmware, RAM disk, System, Web) Update.

9-5-4. Sensor Device Driver Update

Displayed on Menu, but function is not implemented

9-5-5. Flexible Extra system

Displayed on Menu, but function is not implemented

Ikegami

■ Ikegami Electronics (U.S.A.), Inc.

37 Brook Avenue, Maywood, New Jersey 07607, U.S.A.

Phone: 201-368-9171/FAX (201)569-1626

■ Ikegami Electronics (U.S.A.), Inc, West Coast Office

2631 Manhattan Beach Blvd., Redondo Beach, C.A. 90278

Phone: 310-297-1900/FAX (310) 536-9550

■ Ikegami Electronics (Europe) GmbH

Ikegami Strasse 1, D-41460 Neuss, Germany

Phone: 02131-123-0/FAX 02131-102820

■ Ikegami Electronics (Europe) GmbH U.K. Branch

Unit E1 Cologne Court Brooklands Close,

Windmill Road Sunbury-on-Thames Middlesex TW16 7EB, UK

Phone: 01932-769700/FAX 01-92-769710