

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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1. Camera Login and Login Screen

Pile Edit View Favorites Tools Help Back - O - I O Search C Search Favorites I http://192.168.1.100/index.asp	 X X
Enter Network Password This secure Web Site (at 192.168.1.100) requires you to log on. Please type the User Name and Password that you use for GoAhead. User Nam Password Save this password inyour password list Cancel	1

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".

③After 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" $\,)$

Quick Configuration Step 1 Step 2 Step 3	Quick Configuration This category shows the detailed method for Quick Configuration.			
Step 4	» Step 1	Configuration of Network Video System name.		
Step 5	» Step 2	Configuration of Network Video System Date & Time.		
» Finish	» Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).		
System Configuration	» Step 4	Configuration of dynamic IP registration of Network Video System.		
Network Configuration	» Step 5	Configuration of recording for each camera.		
Device Configuration Advanced Configuration Recording Configuration Utilities	» 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	
	Step 1			
	Step 2			
	Step 3			
Quick	Step 4	n/a	n/a	
	Step 5 (IPD-DM11,IPD-V11)			
	Finish			
	Server Name			
~	Date & Time			
System	Admin. Password	n/a	n/a	
Configuration	Access Control			
	User Registration			
	Network Configuration			
	Network Ports		n/a	
	Bandwidth Control			
	View Network Status			
Network Configuration	NetworkStatus Notify	n/a		
	IP-CCTV DNS™			
	Port Forwarding & UPnP			
	RTP/RTSP			
	SNMP			
		Serial Input Mode		
	Serial Ports	Serial Output Mode	n/a	
Device		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	
		E-mail	Camera 1 Camera 2	
		FTP(Buffered)	Camera 1 Camera 2	
Advanced Configuration	Advanced Services	FTP(Periodic)	Camera 1 Camera 2	
		Sensor Notification	Input 1 Input 2	
		Alarm Output	Output 1	
	SD Configuration	SD Status & Format SD Information	n/a	
	Recording Configuration	Built-in Module 0	Camera 1 Camera 2	
Recording	Recording Profile			
Configuration	Recording Mode			
	SD Status Report			
	Clear Recording Config.		II/a	
	Delete Recorded Data			
	Player (Displayed only IPD-DM11/IPD-VR11 with SD card)			
Utilities	System Log	n/a	n/a	
	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	Quick Configuration			
Step 1	This category shows the detailed method for Quick Configuration.			
>> Step 2	» Step 1	Configuration of Network Video System name.		
Step 3	» Step 2	Configuration of Network Video System Date & Time.		
Step 4	» Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).		
Finish	» Step 4	Configuration of dynamic IP registration of Network Video System.		
	ss Einish	Undate the flash memory by new configured data, which is not versatile		

IPD-DM11, IPD-VR11

	Quick Configuration			
Quick Configuration Step 1	This category shows the detailed method for Quick Configuration.			
Step 2	» Step 1	Configuration of Network Video System name.		
Step 3	» Step 2	Configuration of Network Video System Date & Time.		
Step 4	» Step 3	Configuration of Network(IP,Netmask,Gateway,DNS).		
Step 5	» Step 4	Configuration of dynamic IP registration of Network Video System.		
Finish	» 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-VR1. 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)

Live Viewer Quick Configuration System Configuration Network Configuration Device Configuration Advanced Configuration Recording Configuration Utilities

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.

A Network Video System - Administration - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
🔇 Back 🔻 🚫 - 📓 🛃 🏠 🔎 Search 🤶 Favorites 🧐 🔗 - 😓 🚍 🦓	
Address Abtn://192.168.1.100/admin/aindex.asp	🔽 🄁 Go
Live Viewer Substrate Country attion Step 1 Step 2 Step 3 Step 4 Step 5 Finish System Configuration Network Configuration Network Configuration Advanced Configuration Recording Configuration Utilities Built-in Mortule D-Camera 1	

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)

	Display or Hide the Audio Control bar (shown below) which can control the Audio level
	and line on/off by click this button.
	This icon also displayed to connect IPD-BX11 but it is not functioned
	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
	Stretch Mode:
N	Live video is resized to fill the entire screen by click this button.

Audio control bar operation

When it is needed to use Audio for IPD-DM11,IPD-VR11, click the <u>Connect</u> 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 <u>Disconnect</u> button.



If below popup alert window is displayed by click the <u>Connect</u> 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).



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.

Save in:	Deskton		-	n 🕂 📼	÷	
My Recent Documents Desktop	My Document My Computer My Network F	S Vlaces			1	
Ay Computer	File name:	20131119_13h05m01	s_Camera 1	•	Save	
	Contraction and American	Ditates Files (Share)		14 C	Cancel	

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 $\overline{\text{AVI}}$ 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.

Utilities Player System Log Save Configuration Reboot Factory Default System Update

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.

1	Set the beginning of video file data. Instant playback
	will scan 1minute after set time
Slow Normal Fast	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.

Pause	
FPS	Þ
Flip	۲
Mute Audio	
Do 1	
Navigation	
Time Stamp	

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.

	Pause	
	FPS	2
	Flip	
	Mute Audio	
¥	Do 1	
	Navigation	
	Time Stamp	

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.

Bauco	Save As	2 🛛
FPS Flip Flip Flip Flip Flip Flip Flip Flip	Save in: Deditop I deditop III - IIII - IIIII - IIIII - IIII - IIII - IIIII - IIIIII	
Time Stamp	My Computer File name: 20131119_13/d5m01s_Carriers 1 v Save My Network, Save as type: 5/smap Files (* 2mp) v Cancel	

4. System Configuration

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

It can be setup for camera system.

System Configuration Server Name	System Configuration This category shows the detailed method for System configuration.		
Date & Time Admin. Password Access Control	» Server Name	Configuration of Network Video System name.	
	» Date & Time	Configuration of Network Video System Date & Time.	
	» Admin. Password	Change administrator's password.	
User Registration	» 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).

System Configuration Server Name	Server Name Setup		
Date & Time Admin, Password	Product model name	IPD-14.11	
	Server name	Network Video System	
User Registration	Mac Address (S/N)	DE 138 MPI 8 2 371 8 2	
	Firmware version	4.21-108-68	
	Webimage version	4.19-7326-2_1K_8P	
	Ba	an 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 <u>Back</u> 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**).

System Configuration Server Name	Local Date & Time Configuration		
Date & Time	Date (yyyy/mm/dd)	IIII/15	
Access Control	Time (hh:mm:ss)	15 : 55 : 42	
- Oser Registration	Time Zone	Change Time Zone	
	Service	○ Enable ⊙ Disable	
	NTP server address	pool.ntp.org	
	NTP sever time	Get NTP server time	
	B Notice : If you chan we strong System.	ack Apply Refresh nge the 'Time Zone' and click 'Apply' button, ly recommend to reboot this Network Video	

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.
Sorrigo	Enable:NTP Server service used
Service	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 <u>Back</u> 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.

System Configuration Server Name Date & Time	Administrator'	s Password Configuration
Admin. Password	Administrator's ID	root
Access Control	Old Password	
User Registration	New Password	
a de la companya de la	Confirm Password	

Notice : The password must be alphanumeric, within 4 ~ 23 characters.

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
Confirm Password	also used for Login on IE and Authentication of RTSP streaming.

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

System Configuration Server Name Date & Time Admin, Password	Access Control Configuration Access Permission
··· Access Control	• Full Access (View and control camera & audio without permission)
User Registration	O Limited Access (In accordance with an user's permission)

Back Apply	Back	Apply	1
------------	------	-------	---

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



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

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

Now select one of System Resource Access Permission on below screen

	System Resource Access Permission
۲	All Channels Access
0	General Access (only live viewing access)
0	No Access
0	Selective Access

All Channels Access	User can use all function except Administration setup page.
General Access	Haan aan waa anly Liva View widee
(only live viewing access)	User can use only Live view video.
No Access	User is not permitted of any function.
	User is allowed to use only selected functions which is setup on below
Selective Access	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 Configuration Server Name Date & Time Admin. Password Access Control User Registration

0	All Channels Access	Irce Acce	ss Perm	ission		
0	General Access (only	live view	ing acce	ss)		
0	No Access					
0	Selective Access					
Enable	VS Module ID	Camera No.	Alarm Control	PTZ Control	Audio Control	Play back
	Built-in Module 0 🔀	All 🜱				
	Built-in Module 0 🔛	All 🗸				
	Built-in Module 0 💌	All \vee				
	Built-in Module 0 😽	All 💌				
	Built-in Module 0 💌	All 👻				
	Built-in Module 0 🔛	All 👻				
	Built-in Module 0 🖂	All \vee				
11111	Built in Madula 0					T

VS Module ID	Built-in Module0 is set (fixed).			
Comoro No	Select Access stream between Camera No.1:Primary Stream, Camera			
Camera No	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)			
Dl. L. I	Set the permission to access for Playback control of recorded video.			
Гаураск	(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.

Add 🤇) Edit 💿 Delete 🔿
User ID	Select UserId 💌
Password	
Confirm password	

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

User ID	Select the registered User ID for editing on this filed.
Password	Enter some recovered between 4 and 22 alphanumeric
Confirm Password	Enter same password between 4 and 25 alphanumeric.
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.

UserID (Grou	DID)
test	
	-

5. Network Configuration

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

Network Configuration Network Configuration	This category shows the deta	Network Configuration iled method for network system.
Network Ports	» Network Configuration	Configuration of Network(IP,Netmask,DNS).
Bandwidth Control View Network Status	» Network Ports	Modification of HTTP and other application network port numbers.
Network Status Notify	» Bandwidth Control	Configuration of bandwidth control.
IP-CCTV DNS™	» View Network Status	View of Network Status.
>> Port Forwarding & UPnP	» Network Status Notify	It sends IP address by e-mail when IP address is allocated by DHCP(or PPPoE).
SNMP	» 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.

Static IP	0	DHCP Client 〇	PPPoE C
IP Address	192	2.168.1.100	
NetMask	255	5.255.0.0	
GateWay	192	2.168.0.254	
DNS 1	192	2.168.100.1	
DNS 2	202	2.238.95.24	

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 1minite to 2minutes.

If click <u>Back</u> 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.



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.

Static IP 🔘	DHCP Client O	PPPoE 💿
User ID		
User Password		
Confirm Password		
ce : Please make sure to get IP address selected	Back Apply to set up "Network throgh e-mail when	Status Notify" o PPPoE option is

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 Configuration		
Network Ports			
Bandwidth Control View Network Status Network Status Notify IP-CCTV DNS™	Back Apply		
 Port Forwarding & UPnP RTP/RTSP SNMP 	Notice • HTT	P Port : For web	o 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	Bandwidth Control Configuration		
Network Ports	Service	○ Enable ⊙ Disable	
Bandwidth Control	Bandwidth Limit	0 Kbps	
View Network Status Network Status Notify IP-CCTV DNS™		Back Apply	
 Port Forwarding & UPnP RTP/RTSP SNMP 	Notice • The bandwidth lin • MPEG-4 or H.264	nit should be over 32. 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:

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

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

OThis 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 Status		
Network Configuration	Common Status		
Network Ports	Gateway	192.168.0.254	
Bandwidth Control	Gateway Device	eth0	
View Network Status	DNS1	192.168.100.1	
IP-CCTV DNS™	DNS2	202.238.95.24	
Port Forwarding & UPnP	LAN Status		
→ RTP/RTSP	IP Address	192.168.1.100	
>> SNMP	Netmask	255.255.0.0	
	MAC Address	00:30:6F:84:37:02	
	PPPoE Status		
	Connection Status	Link is down	
	IP Address		
	Netmask		
	WAN-Modem Status		
	Connection Type	PPP Server (Dial In)	
	Connection Status	Link is down	
	Local IP		
	Remote IP		
	Netmask		
	Back	Refresh	

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 Configuration	Netw	ork Status Notification
Network Ports	Mail Notification	O Enable O Disable
Bandwidth Control	SMTP Server	
View Network Status	Authentication Login	Enable Disable
Network Status Notify	User ID	
IP-CCTV DNS™	Password	
Port Forwarding & UPnP	Sender	
CNMD	1st Recipient	
SNMP	2nd Recipient	
	3rd Recipient	
		ser-Defined Message ======
	Notice : It sends IP addre DHCP(or PPPoE).	Back Apply ess by e-mail when IP address is allocated by

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.

 \bigcirc **5-1-3.PPPoE** Setup has been done, and the camera has been given new IP address by ISP or

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 \sim 3rd Recipient	Email Address of Recipients(up to 3 persons)
User Defined Message	Message is included in Notification email

PPP server.

5-6.IP-CCTV DNS Setup

This function is not supported

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

Network Configuration	IP-CC	TV DNS™ Setup
Network Ports	Service O	Enable 💿 Disable
Bandwidth Control	DNS Server IP	ww.ipcctvdns.com Go
View Network Status	Mac Address	ROBPORT 7813
Network Status Notify	Product-Key 🕄	(BRO ER)
IP-CCTV DNS™	IP-CCTV DNS	Confirm
 Port Forwarding & UPnP RTP/RTSP SNMP 	Ba	ack Apply
	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 DN: If product is not registered on IP-CCTV DNS, you can not verify registered	

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 (<u>http://www.ipcctvdns.com</u>) ,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:

OWhen this function is not used, it should not be setup.

OThe provided domain name is able to check by Confirm button.

OThe 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.

Network Configuration		Port Forwarding & UPnP
 Network Configuration 		⊙ Manual : User Assigned port 9080
Network Ports	Port Forwarding	O UPnP : User Assigned port 9080
» Bandwidth Control		O UPnP : Auto selected port
» View Network Status	Display shortcut Icon	O Enable ⊙ Disable
Network Status Notify	In My Network Places	
IP-CCTV DNS™		
Port Forwarding & UPnP		UPnP Status
RTP/RTSP		
>> SNMP	Status	Success
	External Port No.	0800
	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 This function is quite ur If Upnp service is not a	the external port number of dynamic IP address. iique when UPnP IP sharer or router are used together. ctivated 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.

OManual:User Assigned Port

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

OUPnP: 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 <u>Apply</u> button to save. When click the <u>Refresh</u> button, the status data will be set as newest data. If click <u>Back</u> 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.

Network Configuration Network Configuration	RTP/RTSP Setup			
Network Ports	Service		○ Enable ⊙ Disable	
 Bandwidth Control 	RTSP Port		554	(Default:554, 554 ~ 65534)
View Network Status	RTP Start Port		5000	(Default:5000, 2048 ~ 65534)
TD-CCTV DNSTM		Multicast	0.0.0.0	Disable:0.0.0.0
Port Forwarding & LIDpD	Camera 1	Address		(225.0.0.0 ~ 239.255.255.255)
RTD/RTSD		Multicast Port	0	(Disable:0, 2048 ~ 65534)
SNMP		Multicast	0.0.0.0	Disable:0.0.0.0
	Camera 2	Address Multicast Port	0	(225.0.0.0 ~ 239.255.255.255) (Displie:0, 2048 - 65524)
	Notic	e : This function IP devices (a RTSP URL for rtsp://(Netwo -> stream(1:1 RTSP URL for (Multicast ad rtsp://(Netwo -> multicast_	Back Apply is only for built in mod dded VS module) does Camera 1 ork Video Server IP Ad Port number) Camera1 for Multicast dress and Port shoud ork Video Server IP Ad stream(1:Port number	ule. s not support this function. dress)/stream1 address be configured.) dress)/multicast_stream1

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

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

Network Configuration Network Configuration		SNMP Setup
Network Ports	SNMP V1/V2	○ Enable ⊙ Disable
View Network Status	Trap	💿 Enable 💿 Disable
Network Status Notify	Destination IP Address	
IP-CCTV DNS™ Port Forwarding & LIPnP	Trap Community	
RTP/RTSP	Available Traps	Cold Start / Authentication Failure
SNMP		
	Back Apply	

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	Cat the ID address for my heat to me size CNMD Then we are no		
IP Address	Set the IP address for product to receive SNMP Irap 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 <u>Back</u> 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 Serial Ports Privacy Zone Camera & Motion DI/DO DI Status/DO Control	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, blow 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 <u>Apply</u> 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.



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

Device Configuration
Serial Ports
Privacy Zone
Camera & Motion
>> DI/DO
DI Status/DO Control

Camera & Motion Configuration					
Default Video Format			NTSC O PAL		
Video with Flexible	Extra System data		Enable		
Video with user def	ined message		Enable		
Video with PPP stat	us		Enable		
Video with camera name			Enable		
Video with server n	ame		Enable		
Video with IP address			Enable		
Audio			🔘 Enable 💿 Disable		
	Frame Rate		30 fps 💌		
Primary Stream	Image Size		720x480 / 720x576 🛛 💌		
	Encoding Standard	(🔾 M-JPEG 💿 H.264		
Secondary Stream	Frame Rate		30 fps 💌		
	Image Size		320x240 / 320x288 🛛 👻		
	Encoding Standard	(⊙ M-JPEG ○ H.264		
Back Apply					

Default Video Format	Select NTSC or PAL Video System for camera video		
Video with Flexible	Video with Flexible Extra data is sent from COM port		
Extra System data	(This function is not implemented)		
Video with	User defined message with Video data is sent		
user defined message	(This function is not supported)		
Vilas mith DDD status	PPP(Configuration status)data with Video data is sent		
video with PPP status	(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.		
	Set the frame numbers for Primary Stream, the Secondary Stream		
Frame Rate	numbers shall be under the Primary Stream fame numbers.		
	(setting value:1fps, 2 fps, 3 fps, 5 fps, 10 fps, 15 fps, 30 fps)		
	Select the encode size for Primary Stream and Secondary Stream		
Image Size	(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		
Encoding Standard	Stream and Secondary Stream.		

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

.

If click <u>Back</u> 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.

Device Configuration Serial Ports Privacy Zone		Camera (Control	
 Camera & Motion Camera Control Motion Detection Primary Stream Secondary Stream DI/DO DI Status/DO Control 				
			Menu Enter	
	CONTROL	1 - 4	Up	Diele
		Lett	Down	Kight

Click the <u>Menu Enter</u> 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 $12 \ge 12$ divided areas of screen as above by clicking each divided area.

Motion	Enable:Effect motion detection function.	
Detection	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 <u>Back</u> 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)		
Camera C	configuration (Primary Stream)	Camera C	onfiguration (Primary Stream)	
Camera Name	Camera 1	Camera Name	Camera 1	
Rate Control Mode	VBR Mode	Rate Control Mode	CBR Mode 💌	
Image Quality	High 💌	Bit Rate Control	1.0 Mbps 💉	
GOP Structure	16 [1~64]	GOP Structure	16 [1~64]	
Ba	ck Apply Default M-JPEG	Ba	ck Apply Default	
Camera (Configuration (Secondary Stream)			
Camera Name	Camera 2			
Image Quality	High 💌			
	Back Apply Default			

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

Camera	Print in Camera name
Name	Enter up to 21 alphanumeric characters or up to 10 Unicode.
	H.264 VBR(Variable Bit Rate)Mode
Rate Control Mode	Video is encoded with selected image quality and GOP. Bit rate is different each
	encoded video frame.
	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.
Image Quality	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
Bit Rate	H.264 CBR(Constant Bit Rate)Mode
Control	Select the bit rate between 10Mbps from $32\mathrm{Kbps}_\circ$
GOP	Set the I frame distance between 1 to C4. This is filled with Deframes
Structure	Set the 1 frame distance between 1 to 64. This is fined with F-frames.

After finished above setting, click <u>Apply</u> button to save. When click the <u>Default</u> button, the setting will be set previous setting data. If click <u>Back</u> 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.

Device Configuration	DI(Sensor Input) / DO(Alarm Output) Setup				
 Privacy Zone Camera & Motion Camera Control 	No 1	Sensor Input Name Di 1	Alarm Output Name		
Motion Detection Primary Stream Secondary Stream	No Sensor Input Type Alarm Output Type 1 Image: Open Open Open Open Open Open Open Open				
DI/DO DI Status/DO Control		Back	Apply		
	Notic	e : The Sensor Input & Alarm Out	put name can be 31 alphanumeric		

It can be set Sensor input and Alarm Output.

Sensor	Print in Sensor name
Input Name	Enter up to 31 alphanumeric characters or up to 15 Unicode.
Alarm	Print in Alarm name
Output Name	Enter up to 31 alphanumeric characters or up to 15 Unicode.
	Select Normal Open:
Sensor	Normal is OPEN, and goes Closed when triggered by an event.
Input Type	Select Normal Close:
	Normal is CLOSE, and goes opened when triggered by an event.
	Select Normal Open:
	Normal is OPEN for relayed output, and closed when triggered by event.
Alarm	an event.
Output Type	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) O	Control
DO(Alarm Output) Port Number	On / Off
1	On Off
DI(Sensor Input) S	itatus
DI(Sensor Input) Port Number	1
Check (On)	
	DO(Alarm Output) Port Number 1 DI(Sensor Input) Port Number Charle (On)

ODO(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.

ODI(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.

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.



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	Set the buffering speed between 0.1f/s to 10.0f/s, and Fastest.
Speed	Each Cannel can be set different speeds.

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

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

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.

Advanced Configuration Advanced Services E-mail FTP(Buffered) FTP(Periodic)	E-mail Service Configuration Please click the below link to configure E-mail service for each camera.					
Sensor Notification						
	Service	🔿 Enable 💿 Disable				
	SMTP server address					
	SMTP Port	25 (Default:25, 0 ~ 65535)				
	Authentication Login	Enable Disable				
	User ID					
	Password					
	Sender					
	1st Recipient					
	2nd Recipient					
	3rd Recipient					
	(Back Save				

	Click here, 7-2-2.Camera (E-mail Service Setup for Each Channel)				
Camera1,Camera2	setup screen on next page is displayed also.				
	(Camera1:Primary Stream, Camera2:Secondary Stream)				
Comico	Enable: To use this E-mail service				
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.				
$1st{\sim}3rd$ Recipient	Enter the recipient s email address up to 3 persons.				

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

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.

	Plea	se click be	elow link	k to c	onfigure tl	he	service con	dition	l.			
Advanced Configuration	» Cor	ndition 1	[Not U	sed]								
Advanced Services		ndition 2	[Not U	sed]								
E-mail	» Condition 3 [Not Used]											
Camera 1 E Camera 2	Maximum 10 pre-post alarm images can be transmitted.											
■ FTP(Buffered)	Pre-Alarm Buffer Size 0 (frames) >>>			» Check v	> Check video buffer							
FIP(Periodic) Sensor Notification	Pre-A	larm Ima	ges	0		~	Post-Alarm Images		ges	0 💌		*
Alarm Output	Pre-Alarm Speed		Sel	ect Speec	Y	Post-Alarm Speed		ed	Select Speec 💌		ec 💌	
a sum output	Subject Me			Message From IP Device![0,0]								
	2											
	Message					Value Format						
	NONE INT					HEX	BIN	IPA	EVT			
	1						•			0		0
	2						•	0	0	0	0	
	3						•	0	0	0	0	O
	4						۲	0	0	0	0	
					Back		Save					

Condition1	Select the Condition for Email service to be activated. Click here,				
\sim Condition3	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 $page_{\circ}$				
Pre-Alarm Images	Set the (size) numbers of image frames to store before Alarm.				
Dest-Aleum Imegae	Set the (size) numbers of image frames to store after Alarm between				
Post-Alarm Images	0 and 10.				
Duor Alaum Spood	This field shows the speed which is setup with 7-1.Advanced				
Pre-Alarm Speed	Services Pre-Alarm Speed.				
Dest-Alarm Speed	Set the recording speed for Post alarm images between 0.1f/s to				
rost-Alarm Speed	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.				
	Select the format for the Event or DI data to E-mail.				
Value Format	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.

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: To use this condition				
Enable / Disable	Disable:Not to use this condition				
Always	This condition applies all the time.				
	(Schedule or Event is not usable)				
	Use Week, Time and Date in Condition parameter.				
Schedule Only	If none of weekdays is set , it is activated every day.				
Front Only	It is activated only any of the following events occurs.				
Event Omy	(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.

7-3.FTP(Buffered)

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

7-3-1.FTP(Buffered)

A

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

ETD(Buffored)	» Camera 1 » Camera 2					
FTP(Periodic)	Service O Enable O Disable					
Sensor Notification	Server Address		1			
Alarm Output	Base Directory Name					
	Base File Name					
	User ID					
	Password					
	FTP Control Port	0 (Default:21	, 0 ~ 65535)			
	Date Description Mode	American Style				
	Connection Mode	Active Passive				
	Option	Directory Name	File Name			
	Server Name					
	Weekday					
	Year					
	Month					
	Day					
	Hour					
	Minute					
	Sec					
	Sequence					

Comerci Comerci	Setup screen for 7-3-2.Camera(FTP Service Configuration) is displayed.				
Camera1, Camera2	(Camera1:Primary Stream, Camera2:Secondary Stream)				
a ·	Enable:To use FTP(Buffered)service				
Service	Disable:Not to use FTP(Buffered) service				
Server Address	Enter FPT Server Address.				
	The base directory name in FTP server where the data will be uploaded.				
base Directory Name	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)				
	Select Date display style.				
Date Description Mode	e.g.) ISO Standard (YYYYMMDD)				
Connection Mode	Select connection mode for FTP server either Active or Passive.				

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

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

If click <u>Back</u> 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.

Advanced Configuration Advanced Services	FTP(Buffered) Service Configuration at Camera 1 Please click below link to configure the service condition.				
FTP(Buffered)	» Condition 1 [Not U	» Condition 1 [Not Used]			
Camera 1	» Condition 2 [Not U	» Condition 2 [Not Used]			
🗉 Camera 2	» Condition 3 [Not U	sed]			
 FTP(Periodic) Sensor Notification 	Maximum 256 pre-post alarm images can be transmitted.				
Alarm Output	Pre-Alarm Buffer Size	0 (frames)	» Check video buffe	er	
	Pre-Alarm Images	0 frames	Post-Alarm Images	0 frames	
	Pre-Alarm Speed	Select Speec 😒	Post-Alarm Speed	Select Speec 💌	
		Back	Save		

Condition1~	Select the Condition for FTP(Buffered) Service to be activated. Click			
Condition 3	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.			
Dros Alarma Grassed	This field shows stored speed which has been set on 7-1.Advanced			
Pre-Alarm Speed	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.

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.

dvanced Configuration	Con	dition 1
Advanced Services	Service FTP(Buffe	ered)
🛿 E-mail	Module ID 0	
FTP(Buffered)	Camera ID 1	
🗆 Camera 1	Enable O Disable @)
Condition 1 Condition 2 Condition 3 Camera 2	 Always Select Mode Event O Schedul 	e Only nly e and Event
Sensor Notification	Scl	hedule
Alarm Output	Week Sun Mon Tue	Wed Thu Fri Sat
	🗌 Time (hh:mm)	<u> </u>
	Date (mm/dd)	$xx/xx \sim xx/xx$
	E	vent
	Alarm Sensor Motion Detection External Input Data	
	Camera Connected Camera Disconnected	
	Boot Finished Serial Input	Enable Activated
	Back	Save

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 / Dicable	Enable: To use this condition			
	Disable:Not to use this condition			
Almono	This condition applies all the time.			
Always	(Schedule or Event is not usable)			
Sebadula Only	Use Week, Time and Date in Condition parameter.			
Schedule Only	If none of weekdays is set, it is activated every day.			
Front 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.

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.

Advanced Conf	iguration
Advanced Se	rvices
🖲 E-mail	1000
FTP(Buffere	d)
FTP(Periodic	:)
Sensor Notif	ication
🔳 Alarm Outpu	It

» Camera 1			» C	amer	a 2
Service	○ Enable ⊙ Disable				
Server Address					
Base Directory Name					
Base File Name					
User ID					
Password					
Sequence Modulo	1				
FTP Control Port	0	(De	efault:	21, 0	~ 65535)
Date Description Mode	Ame	rican St	yle	×	
Connection Mode	Active Passive				
Option	Di	rectory I	Vame		File Name
Overwrite					
Server Name					
Weekday					
Year					
Month					
Day					
Hour					
Minute					
Sec					
Sequence					

Comoral Comoral	Setup screen for 7-4-2. Camera (FTP Service Configuration) is				
Cameral-Camera2	displayed.(Camera1:Primary Stream, Camera2:Secondary Stream)				
Q	Enable:To use FTP(Periodic) service				
Service	Disable:Not to use FTP(Periodic) service				
Server Address	Enter FPT Server Address.				
	The base directory name in FTP server where the data will be				
Base Directory Name	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.
Omerica	File Name box checked:New file overwrites on existing file with same
Overwrite	file name.
Server Name,	Directory Name box checked:New directory is created for each Option
Weekday, Month, Day	item.
Hour, Minute, Sec	File Name box checked:New file is created for each Option.
Company	File Name box checked:New file is created starting from 0, with
Sequence	increment of 1.
	Directory Name box checked:New directory name is created with
Camera Number	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 <u>Save</u> button to apply the setting data and continue to next page. If click <u>Back</u> 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

Advanced Configuration Advanced Services E-mail	FTP(Pe Please click be	eriodic) Ser	vice Configu	uration at Camera1	
FTP(Buffered)	» Condition 1	[Not Used]			
FTP(Periodic)	» Condition 2	[Not Used]			
 Camera 1 Camera 2 	» Condition 3	[Not Used]			
Sensor Notification					
er nialiti o'depat	FTP interval (m	isec) 0		msec	
			Back Sav	'e	

Condition $1\sim$	Select the Condition for FTP(Buffered) Service to be activated. Click		
Condition3	here, then 7-4-3.Condition setup screen is displayed.		
	Set interval time for image upload to FTP server in unit 10msec.		
FTP interval(msec)	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.

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.		
Fnabla / Digabla	Enable: To use this condition		
	Disable:Not to use this condition		
Almono	This condition applies all the time.		
Always	(Schedule or Event is not usable)		
Sebadula Only	Use Week, Time and Date in Condition parameter.		
Schedule Only	If none of weekdays is set, it is activated every day.		
Front 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.

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 Fermail	Sensor Notification Service Configuration Please click the below link to configure Sensor Notification service for each camera.				
FTP(Periodic)	>> Input	: 1		w Input 2	
Alarm Output	Service	O Enable	O Disa	ble	
	Service Mode	HTTP	TCP	UDP	
	Main IP address				
	Aux1 IP address				
	Aux2 IP address				
	Aux3 IP address				
	Port	80	(Default	t:80, 80 ~ 65535)	
	CGI Path or Alarm Common Message				*
	User ID				
	Password				
		Back	Save)	

Input 1, Input 2	Setup screen for 7-5-2.Input is dispalyed.		
Somioo	Enable: To use Sensor Notification service		
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	Future the OCI Dath an increasing for athen for athens		
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.

7-5-2.Input

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

Advanced Configuration Advanced Services E-mail	Sensor N	Iotification Service Configuration at Input 1
FTP(Buffered)	» Condition 1	[Not Used]
FTP(Periodic)	» Condition 2	[Not Used]
Sensor Notification	» Condition 3	[Not Used]
 Input 1 Input 2 Alarm Output 	CGI Nam or Alarm Port Me	e ssage
		Back Save

Condition1~	Link to setup screen of 7-5-3.Condition is dispalyed.
Condition3	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.

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.		
Enchlo / Dischlo	Enable: To use this condition.		
Enable / Disable	Disable:Not to use this condition.		
Almona	This condition applies all the time.		
Aiways	(Schedule or Event is not usable)		
Sebedule Only	Use Week, Time and Date in Condition parameter.		
Schedule Only	If none of weekdays is set, it is activated every day.		
Front Only	It is activated only any of the following events occurs.		
Event Only	(Sensor, Motion Detection, Sever Booting)		
Schedule & Event	It is activated above Schedule and Event conditions.		

٦

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

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.

Advanced Config Advanced Serv E-mail ETP(Buffered)	uration ices	Alarm Please click the l service for each	Output Service Configuration below link to configure Alarm Output alarm output.
FTP(Periodic) Sensor Notific	ation		» Output 1
		Service	🔿 Enable 💿 Disable
			Back Save
Output 1	Link to set	up screen of 7-6-2.0	Dutput.

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

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

If click <u>Back</u> 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.

Advanced Configuration Advanced Services E-mail ETP(Buffered)	Alarm Output Service Configuration at Input 1 Please click below link to configure the service condition.		
FTP(Periodic)	» Condition 1 [Not Used]		
Sensor Notification	Secondition 2 [Not Used]		
🗆 Alarm Output	Secondition 3 [Not Used]		
Output 1			
	Alarm Output Duration Infinite 💌 sec		
	Back Save		

Condition $1 \sim$	Link to Sotup concer for 7-6-2 Condition
Condition3	Link to Setup screen for 7-0-3. Condition.
Alarm Output Duration	Set the hold time for Alarm trigger between 1 to 30, and Infinite.
Alarm Output Duration	If Infinite is set, Alarm is kept till cancel operating.

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

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.



Module ID	Module ID for current setup (Fixed 0)	
Camera ID	Camera ID for current setup.	
Enchle / Dischle	Enable: To use this condition	
Enable / Disable	Disable:Not to use this condition	
A 1	This condition applies all the time.	
Always	(Schedule or Event is not usable)	
Seles della Orales	Use Week, Time and Date in Condition parameter.	
Schedule Only	If none of weekdays is set, it is activated every day.	
Errort Oralia	It is activated only any of the following events occurs.	
Event Only	(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.

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 SD Configuration	Rea This category shows the detailed	cording Configuration method for Recording Service configuration.
 Recording Configuration Recording Profile Recording Mode 	» SD Configuration	For SD formatting & initialization. Please remember that you must set this configuration before the recording.
SD Status Report	» Recording Configuration	Configure recording configuration for each Camera.
Clear Recording Config	» Recording Profile	View all recording configurations.
Delete Recorded Data	** Recording Mode	Configure recording mode.
Delete Recorded Data	>> SD Status Report	Configure Disk Full Notification.
10100 inc	>> Clear Recording Configuration	Clear condition for recording.
ounties	>> Delete Recorded Data	Delete all recorded data.

SD Configuration	The SD card information is shown on Screen. To do Formatting			
SD Configuration	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.			
Poponding Mode	Select recoding mode when SD card capacity becomes full of video			
Recording Mode	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.			
Deleat 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:

OBe sure to turn off the power of camera before insert the SD card, If not the SD card may become defect.

OAlways 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.

cording Configuration	SD Information		
SD Status & Format SD Information Recording Configuration	File System Total Disk Size Free Disk Size	-None- -None- -None-	
Recording Profile	Usage	-None-	
SD Status Report	Oldest Image	-none-	
Clear Recording Config. Delete Recorded Data	Last Image	-none-	J
		Detail Store	d Image Information
		[Back

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.

» SD Status & Format	Configuration of SD Format.	
» SD Information	Configuration of SD Information.	

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 widow 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 blow 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.

	SD Format	
Format Option	Check Bad Block	Microsoft Internet Explorer
 Format Option When you enal Video System of blocks. Do not run oth If this option i hours depend 	ble the "Check Bad Block" option, the Network heck the surface of the HDD for detecting bad er tasks, until format is completed. is enabled, the format time may be several on the size of the HDD. ack Partition and Format	Do you want to do partition and formatting?
	SD Format Status	
	Partition STEP 1 STEP 3	STEP 4
	Description Formatting SD.	-
	Notice : Do not run other tasks, until fo	31.2 %
	Once SD format is completed, to Format Complete page, auto	you will be guided omatically.

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 <u>Reboot</u> 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.)

Recording Configuration SD Configuration		SD Information
SD Status & Format SD Information Recording Configuration Recording Profile Recording Mode SD Status Report Clear Recording Config.	File System Total Disk Size Free Disk Size Usage Oldest Image Last Image	Default format 1.86 GB 1.76 GB 5.46 % -none- -none-
Solution Data		Detail Stored Image Infomation

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)

Recording Configuration SD Configuration	Recording Configuration Please click camera name to configure Recording condition.									
Recording Configuration			Recording Config	urati	on					
Recording Profile	VS Module ID (IP Devices)	Name	IP Address	Port	Vendor	Camera Name	REC. Config.			
Recording Mode	0	Built-in Module 0	Built-in Module 0	0	Built-in Device	Camera 1	Disable			
SD Status Report	0	Built-in Module 0	Built-in Module 0	0	Built-in Device	Camera 2	Disable			
 Clear Recording Config. Delete Recorded Data 			Back App	ly						
Utilities		Status	Record Re	ady	Stop					
	Notice :	Fo start recording Apply 'button. Otherwise, record although all the re	following your nev ing with new confi cording configurat	v rec gurat ions	ording configur tion will not be are correctly se	ation,click started, et up.				

8-2-1.Camera

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





Notice : It is recommended using MJPEG compression to use Pre-Alarm and Post Alarm service. If MPEG4 or H.264 video compression is selected, only I Frame will be recorded.

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

Follow the above screen and set up the recoding 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 $1 \sim 4$.

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

Recording Configuration
SD Configuration
Recording Configuration
Built-in Module 0
Camera 1
Condition 1
Condition 2
Condition 3
Condition 4
Camera 2
Recording Profile
Recording Mode
SD Status Report
 Clear Recording Config.
Delete Recorded Data
» Delete Recorded Data

	Condition 1				
Service	Recording				
Module ID	0				
Camera ID	1				
Enable 🔿 🛛	Disable 💿				
Select Mode	Always Schedule Only Event Only Schedule and Eve	ent			
	Schedule				
Week	Mon Tue Wed Thu	Fri S	at		
🔲 Time (I	hh:mm) 🛛 🔀 : 🛛	× ~ [XX :	XX	
📃 Date (I	mm/dd) 🔀 / 🛛	× ~ [XX /	XX	
	Event	10120			
Alarm Sensor		1	2	3	4
Motion Detection					
Extornal Input D	- 		100	-	
External input D	ata				
Camera Connect	ed				
Camera Disconne	ected				
	Back Save	ו			
n <mark>tice</mark> : Motion Det Device Con	ection can be set a figuration -> Came	t ra & I	Motio	n -> (Came

Caution:

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

OEvent : Motion Detection details can be set by 6-3-3. Motion Detection.

OEvent : 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.

OIf 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.						
Eally (D)	.11.	Enable: To use this condition						
Enable / Dis	sable	Disable:Not to use this condition						
	A 1	Recording is enabled all the time.						
	Always	It is not able to set Schedule and Event .mode.						
Select	Schedule Only	Recording is done by setup schedule.						
Mode		Recording is controlled by Event setting condition.						
	Event Only	(e.g. Sensor Input, Motion Detection)						
	Schedule and Event	Recording is controlled by both Schedule and Event.						
	117 1	Set the day of week for Recording.						
	Week	If Week is not set, it is taken all week.						
		Set the Time of day for Recording.						
Schedule	Time	If Time is not set, it is taken 24 hours day.						
		Set the date(month/day) for Recording.						
	Date	If Date is not set, it is taken all the months.						
		Each of 1,2 refers to the Stream number, and checked when						
		Event driven recording is selected.						
	Alarma Caraan	If two sensors are checked together, recording is enabled						
	Alarm Sensor	only when two sensors are activated.						
		(IPD-BX11,IPD-DM11,IPD-VR11 are functioned with Alarm						
		Sensor number 1 and 2 only)						
		Each of 1,2 refers to the Stream number, and checked when						
		Motion Detection recording is selected.						
Event		If two sensors are checked together, recording is enabled						
	Mation Datastica	only when two sensors are activated.						
	Motion Detection	(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	No functioned for IPD-BV11 IDD-DM11 IDD-VP11)						
	Disconnected							

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 <u>Save</u> button, then below Recording Configuration Screen is displayed. It can be confirmed the setup results of Recording Condition.
- ○If click <u>Back</u> 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.

- Owhen it is needed to record, to select Enable radio button of Recording Service. If not, select Disable redio 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.

	Condition 1
Service	Recording
Module ID	0
Camera ID	1
Enable 🧿	Disable 🔾
(🔿 Always
Select Mode	🔿 Schedule Only
Select Mode (Event Only
(Schedule and Event
	Schedule
Week 🔽	n Mon Tue Wed Thu Fri Sat
Time ((hh:mm)
	(mm/dd) XX / XX ~ XX / XX
	Event
Alarm Sensor	
Motion Detection	n 🗹 🗖 🗍
External Input D	Pata 🗌
Camera Connec	ted
Camera Disconn	ected
	Back Save

	R	eco	ordi	ng	Co	ont	Igu	Ira	tio	n (vs	M	odu	lle	ID	0,	Ca	me	ra	1)			
» Dis Plea	splay o se click	urr be	ent low	red lin	cor k fo	din or t	g (he	cor rea	n <mark>fig</mark> core	ura din	atio g co	ns onfi	gui	rati	on.								
s Coi	ndition	1	[SL [M:	JN,9 1,][[5AT D1,	,]]																	
>> Cor	ndition	2	[No	ot U	se	d]																	
>> Cor	ndition	3	[No	ot U	se	d]																	
>> Cor	ndition	4	[No	ot U	se	d]																	
	01 02	03 (04 0	05 0)6 (07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sun										1							1			1			
Mon																							
Tue																							
Wed								_			-												
Thu								_								_							
Fri							_				-				-				_				
Sat																							
1 2 3 4 Alarm Sensor Image: Camera Connected Conn						ted ect	ed			1	2	3	4										
_	Always	5		S	che	edu	le			So	he	dul	e a	nd	Eve	ent							
Reco	rding S	erv	ice		0	E	na	ble	C	D	isa	ble											
Serve	er Mod	ule	ID		0						Ca	me	era	Nu	mb	er		1					
Came	era Nai	me			Ca	me	ra	1															
Pre-A	Alarm II	mag	jes		5					*	Po	st-	Ala	rm	Ima	age	2S	5		_		-	*
Pre-A	larm S	pee	≥d		5.	Of/	s	_	_	~	Po	st-	Ala	rm	Spe	eed	1	5	.Of	/s	_	_	*
								B	lack			ave											

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

If click <u>Back</u> button, new setting data will be cancelled and the screen will be back to previous screen display

(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
				_		
	Status	Recordi	ng	Stop		

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

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

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

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, blow screen is displayed. It can be confirmed and checked the setting for record condition of camera.

Recording Configuration					Reco	ordin	ig Pro	ofile								
SD Configuration	Server	Camera	REC.	Status	Sta Dat	art e	En Dat	d e	Sta	art 1e	Er Tim	nd ie			W	
 Recording Configuration 			Config.		Month	Day	Month	Day	Hour	Min	Hour	Min	Sun	Mon	Tue	V
Recording Profile	Built-in	Camera	Disable		XX	XX	XX	XX	XX	XX	XX	XX	2	V	1	
Recording Mode	Module 1 0 (Built-in Module 0)	1			XX	XX	XX	XX	XX	XX	ХХ	ΧХ	1	~		
SD Status Report					XX	XX	XX	XX	ХХ	xx	ХХ	XX			2	
··· Clear Recording Config.					XX	XX	XX	XX	XX	XX	XX	XX				
Delete Recorded Data		Camera	Disable		XX	ХХ	XX	XX	ХХ	XX	ΧХ	ΧХ				
Utilities		2			XX	XX	XX	XX	XX	ΧХ	XX	ΧХ	2			
					XX	ΧХ	XX	XX	XX	XX	XX	XX				
					XX	XX	XX	XX	ХХ	XX	ХХ	XX				

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.

Recording Configuration	Recording Mode
 Recording Configuration Recording Profile Recording Mode SD Status Report Clear Recording Config. Delete Recorded Data Utilities 	 Circulation Restrict Duration Days (Default:90, 1 ~ 3650) Pause at full Back Apply
	To view SD status, go to "SD Status Report".

 \bigcirc **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.

 \bigcirc 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.

Recording Configuration	
SD Configuration	
Recording Configuration	
Recording Profile	
Recording Mode	
SD Status Report	
Clear Recording Config.	
 Delete Recorded Data 	
Utilities	

Day SUN MON TUE WED THU FRI SAT Day SUN MON TUE WED THU FRI SAT Time (hh:mm) Image: Comparison of the state o	Periodic Notification	
Day Day Time (hh:mm) 00 SD Error Notification Carbon SMTP Server Authentication Login Authentication Login Denable Disable User ID Password Sender 1st Recipient 2nd Recipient 3rd Recipient	Periodic Nouncation	SUN MON TUE WED THU ERI SAT
Time (hh:mm) OO SD Error Notification Imable Imable Imable SMTP Server Imable Imable Imable Authentication Login Imable Imable Imable Authentication Login Imable Imable Imable User ID Imable Imable Imable Password Imable Imable Imable Sender Imable Imable Imable Imable 1st Recipient Image: Image	Day	
SD Error Notification O Enable O Disable SMTP Server Authentication Login O Enable O Disable User ID Password Sender 1st Recipient 2nd Recipient ===== User-Defined Message ======	Time (hh:mm));00
SMTP Server Authentication Login Ver ID Password Sender Ist Recipient Int Recipient Contemporate Sender Sender Loginat Contemporate Con	SD Error Notification	○Enable ⊙Disable
SMTP Server Authentication Login O Enable O Disable User ID Password Sender Ist Recipient 2nd Recipient Grd Recipient =====User-Defined Message ======		
Authentication Login O Enable O Disable User ID Password Sender 1st Recipient 2nd Recipient ====== User-Defined Message ======	SMTP Server	
User ID Password Sender Ist Recipient Int Recipient Int Recipient Ist Re	Authentication Login	O Enable O Disable
Password Sender Sender Ist Recipient 2nd Recipient 3rd Recipient ======User-Defined Message ======	User ID	
Sender Ist Recipient Interpretation Ist Recipient Ist Recipient Ist Reci	Password	
1st Recipient 2nd Recipient 3rd Recipient ======= User-Defined Message =======	Sender	
2nd Recipient 3rd Recipient ======= User-Defined Message =======	1st Recipient	
3rd Recipient	2nd Recipient	
======= User-Defined Message =======	3rd Recipient	[
		User-Defined Message ======

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.
Deniedie Netification	Select Enable if it is needed to receive the SD capacity information on
Periodic Notification	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.
Harr Defined Mary	Enter the contents of the message to add in the notification, if it is
User Defined Message	needed.

After finished above setting, click Apply button to save.

8-6.Clear Recording Config

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



Click <u>Clear</u> button on above window. Then pop-up confirmation window is displayed, click <u>OK</u> 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(PLAYER INSTRUCTION) as separate volume.

W/O Player Menu		Utilities
Utilities	This category shows the	detailed method for Utility configuration.
System Log	» System Log	View System Log.
Save Configuration Reboot	» Save Configuration	Update the flash memory by new configured data, which is not versatile.
Factory Default	» Reboot	Reboot the system.
System Update	» Factory Default	Set by factory default mode and data
W 27	» System Update	Update web or firmware.

With Player Menu	Utilities This category shows the detailed method for Utility configuration					
Player	» Player	Play recorded video.				
System Log	» System Log	View System Log.				
 Save Configuration Reboot 	» Save Configuration	Update the flash memory by new configured data, which is not versatile.				
Factory Default	>> Reboot	Reboot the system.				
System Update	» 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.

	3	System Log	
Utilities System Log Save Configuration Reboot Factory Default System Update	Thu Aug 29 14:33:18 Hom Thu Aug 29 14:33:20 Adm Thu Aug 29 14:33:20 Adm Thu Aug 29 14:33:20 Iange and	System Log e: 192.168.1.4 in: 192.168.1.4 e: 192.168.1.4 e: 192.168.1.4 in: 192.168.1.4 e: 192.168.1.4 in: 192.168.1.4	(null) (null) root
	4	Back	¥ •

9-2.Save Configuration

Click **Save Configuration** on Menu, below widow is displayed. (Not used this function) Seme 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 widow 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 <u>Cancel</u> 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

Utilities		System Update		
System Log Save Configuration	All (Firmware, RAM disk	, System, Web) Update	Start	
Reboot	System and Web Upda	te	Start	
Factory Default	Web Only Update	Web Only Update		
System opdate	Sensor Device Driver U	pdate	Start	
	Flexible Extra System		Start	
		Back		
	Sy	stem Information		
	Mac Address (S/N)	COL 100-047 (84) (87 (02)		
	Firmware version	-4.21-108-de		
	Webimage version	4.18-7326-2_10_99		
	Flexible E	xtra System Informatio	n	
	System	No Extra System		
	Version	0.00.0000		

Note:

OThe 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.

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OFor latest Update file , refer to the dealer directory.

ODo not power off during Update work.

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

[Step 1]

System Update		Microsoft Internet Evolutor
All (Firmware, RAM disk, System, Web) Update	Start	
System and Web Update	Start	Are you sure to update this system?
Web Only Update	Start	
Sensor Device Driver Update	Start	OK Cancel
Flexible Extra System	Start	

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]	Please upload " a_ker_ds " file for Firmware.
Firmware	If you don't want to upload this, click "Skip" to go to the next step.
Upload	Tor the system safety, bo not close this window compulsory.
	Select file : Browse
	Next Skip

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:

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

Firmware (1	t will take a few second	1S.)		
	(It will take a few seconds.) After procedure is completed, you will go to the next step.			
Confirm If Fo	you click "Cancel", this or the system safety, "I	system will reboot. <mark>Oo not close this window comp</mark>	ulsory."	
		File Information		
	File Name	a_ker_ds-4_19-00		
	File Size	2239 KB		

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 disck 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 : Browse
	Previous Next Skip
[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 : Browse
【Step 6】 Web File Upload	Previous Next Skip 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 : Browse
	Previous Next Skip

[Step 7] Upload finished	All of setting will be revert back to factory default except IP address, if you press "Factory Default" button.
	To retain settings, click the "Next" button.
	Next Factory Default
	Processing post firmware-update.
	Please wait for a while.

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 <u>Next</u> 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	This command will reset this system. All connections will be disconnected and Network Video System can not monitor your site within several seconds. You should reboot this system. After reboot, restart your browsers!!
	Reboot!!

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				
System Update		(
All (Firmware, RAM disk, System, Web) Update	Start	Microsoft Internet E	xplorer 🔀	
System and Web Update	Start	Are you sure	to update this system?	
Web Only Update	Start			
Sensor Device Driver Update	Start	ОК	Cancel	
Flexible Extra System	Start			

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				
System Update				
All (Firmware, RAM disk, System, Web) Update	Start	Microsoft Internet Explorer		
System and Web Update	Start	Are you sure to update this system?		
Web Only Update	Start			
Sensor Device Driver Update	Start	OK Cancel		
Flexible Extra System	Start			

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

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