

IP SPEED DOME

USER'S MANUAL

YSS-1523A-OIP / YSS-2523A-OIP
YSS-1523B-OIP / YSS-2523B-OIP
YSS-1523W-OIP / YSS-2523W-OIP
YSS-1523U-OIP / YSS-2523U-OIP

V3.0



31.53 SD Card:

31.531 Playback from SD Card:

Capacity of the SD card is shown. Click the date listed on the page.



1. The video MPEG4 is in AVI format. If media player can't play the video files, please install the decoder program at <ftp://59.120.66.60/Tools/ffdshow.exe>
2. When the SD card is full, it will overwrite the oldest video files automatically.

31.532 Record Setting: Modify Pre/ Post Alarm seconds (Each 0~5 seconds).

Pre Alarm:

Post Alarm:

Thanks for your purchase of our product.

- In order to make good use of this product, please read this user's manual carefully.
- In order to use this product correctly and safely; be familiar with all operation steps.
- Please keep this user's manual for future reference.
- This document contains proprietary information, which is protected by copyright.
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- The information contained in this document is subject to changes without notice.

SAFETY WARNING

- **Before using this product, please read installation instructions carefully and remove the protective lining from the dome before proceeding with set up.**
- In case of failure, disconnect power or remove power supply before contact our service personnel.
- To avoid electric shocks, do not disassemble this product on your own. Be sure to ask a skilled technician for the job.
- Use enclosed power supply only. Do not use other type of power supply, or the product may be damaged or fire can be triggered.
- Keep unconnected wires, plugs, duly insulated, or they might cause short circuit and damage this product.
- Do NOT connect power to the unit until all installation steps are completed.
- Do not turn the camera lens with your hand, doing so might damage camera.
- Do not point this camera to the sun or a shining object, do not put it on a static object; doing so might damage the camera.
- To avoid damage, do not load this camera in a place subject to vibration, humidity or a dusty environment.

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31.52 I/O setting and Mail & FTP & Logs:

I/O Setting

Input Setting

Input 1 Sensor: ▾

Input 1 Action: E-mail FTP Out1 Out2 Out3 Out4 Save to SD card

Input 2 Sensor: ▾

Input 2 Action: E-mail FTP Out1 Out2 Out3 Out4 Save to SD card

Subject:

Interval: ▾

Based on the schedule

Output Setting

Mode Setting: OnOff Switch Time Switch

Interval: ▾

I/O Out1 ~ Out4 and Mode setting is reserved in option.

Mail & FTP

Mail Setting

Login Method: ▾

Mail Server:

Username:

Password:

Sender's Mail:

Receiver's Mail:

Bcc Mail:

Mail Port: (Default 25)

FTP Setting

FTP Server:

Username:

Password:

Port:

Path:

Mode: ▾

Log List

System Logs

[Logs](#)

Motion Detection Logs

[Logs](#)

I/O Logs

[Logs](#)

All Logs

[Logs](#)

In each area can choose actions when motion alarm is triggered.

Interval: 10-60 seconds.

Based on the schedule: alarm action is based on schedule.

31.512 Record file format: AVI or JPEG

AVI File(with Record Time Setting)

AVI File(with Record Time Setting)

JPEG Files(with Record Time Setting)*Only Straming 1 with JPEG video format.

JPEG File(Single File with Interval Setting)

31.513 Network Dis-connected:

The screenshot shows a configuration menu with the following sections:

- Record Time Setting:** Pre Alarm: 5 sec, Post Alarm: 5 sec.
- Network Dis-connected:** Dis-connected: Save to SD card.
- Network IP Check:** IP Check: Enabled, Disabled.

When the network is down, it will save 10 seconds video to local SD card.

This function is only enabled in wire connection.

31.514 IP check: Enabled Disabled

For the use of recording software, it supports the detection of this connection. Whenever the connection is down, it records the video to SD card. Please note video recording is continuous to save to SD Card. To use this function, input the IP address of the PC which is installed the specific 16CH recording software. Enable the function of “Save to SD card”, then click “Apply”.

31.515 Schedule

The screenshot shows a configuration menu for the schedule and snapshot features:

- Schedule:** A calendar grid with days of the week (Mon-Sun) and hours (0-23). A green bar indicates the active schedule.
- Snapshot:** Enabled, Disabled.
- Snapshot:** E-mail, FTP.
- Interval:** 10 Second(s) [1..50000]
- File Name:** Snapshot

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31.5 Event List:

The screenshot shows the 'Event Setting' window with the 'Motion Detection' section active. It features a large black video preview area. Below the preview, there are three color-coded area settings: Area 1 (blue), Area 2 (green), and Area 3 (red). Each area has a sensitivity dropdown set to '5'. For each area, there are checkboxes for 'E-mail', 'FTP', 'Out1', 'Out2', 'Out3', 'Out4', and 'Save to SD ca'. A 'Subject' field is set to 'Video Server Warning!'. The 'Interval' is set to '10 sec' with a note 'a period of time between every two motions detected.' There is a checkbox for 'Based on the schedule'. Below this is the 'Record File' section with 'File Format' set to 'AVI File(with Record Time Setting)'. The 'Record Time Setting' section has 'Pre Alarm' and 'Post Alarm' both set to '5 sec'. The 'Network Dis-connected' section has a checkbox for 'Save to SD card'. The 'Network IP Check' section has 'IP Check' set to 'Disabled', 'IP Address' set to 'www.google.com', 'Interval' set to '30 sec', and a checkbox for 'Save to SD card'.

31.51 Event Setting

31.511 Motion Detection & Sensitivity:

When motion is triggered, it can send the video to specific mail address; transmit the video to remote ftp server and SD card. To set up the motion area, click “Area 1/2/3”. Drag the area and press “Area 1/2/3”.

This screenshot is identical to the one above, showing the 'Event Setting' window with 'Motion Detection' configuration. It details the area settings (Area 1, 2, 3), sensitivity (5), output options (E-mail, FTP, Out1-4, Save to SD card), subject ('Video Server Warning!'), interval (10 sec), and network settings (Record File, Record Time Setting, Network Dis-connected, Network IP Check).

Resolution: D1 – 720X480 CIF – 320X240 QCIF – 160X120 (NTSC)
 D1 – 720X576 CIF – 320X288 QCIF – 160X144 (PAL)

Quality: Best, High, Standard, Medium, Low

Video System: 60Hz (NTSC) or 50Hz (PAL)

31.422 Advanced Mode:

Basic Mode Advanced Mode
 Resolution:
 Bitrate Control Mode: CBR VBR
 Video Quantitative:
 Video Bitrate:
 Video Frame Rate:
 GOP Size: GOP = 30
 Video System:

Bitrate Control Mode: CBR and VBR (Constant/Vary Bit Rate)

CBR: 64 Kbps~4 Mbps. The higher level set, the better video quality is.

VBR : Q=3~30. The higher level set, the better video quality is.

Video Frame Rate: 2~30FPS. FPS is Frame Rate per Second.

GOP: Group of Pictures of 1/2x 1x and 2x Default is 1x.

2x GOP is in better network environment.

1x GOP is in regular network environment.

1/2x GOP is in worse network environment.

Video System: 60Hz (NTSC) or 50Hz (PAL)

31.423 3GPP Mode: For mobile 3GPP streaming.

rtsp://</>/3g to receive the stream 2 with audio

rtsp://</>/3gx to receive the stream 2 without audio

31.43 Audio: Enable or Disable audio. Audio format is ADPCM. (Option)

Audio

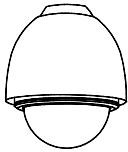
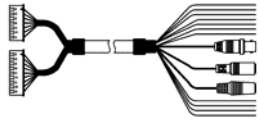
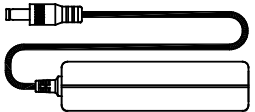
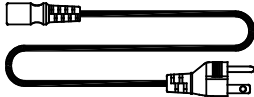

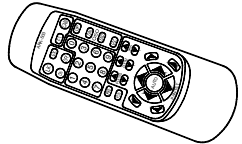

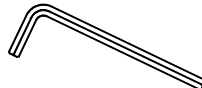
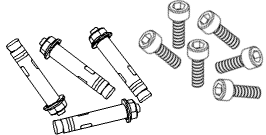
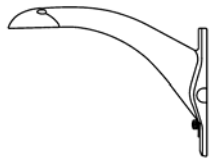

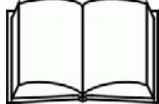
IP Camera to PC

Enabled Disabled

1 - Accessories

Please check if the accessories enclosed are completed. If there is any shortage, please contact your local dealer and replace a new one.

1.1 Outdoor with heater & Blower

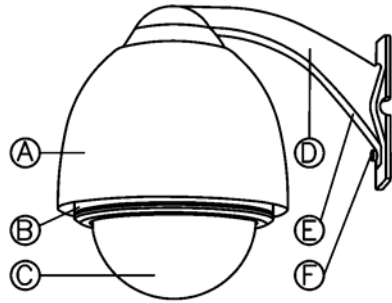
 1.1.1 Outdoor Speed Dome	 1.1.2 Control line (In camera)	 1.1.3 Power supply
 1.1.4 AC Power Line	 1.1.5 Infrared receiver	 1.1.6 Infrared remote control
 1.1.7 No. 4 AAA Batteries	 1.1.8 Screw driver for Securing screws	 1.1.9 Securing screws
 1.1.10 Wall-mount Bracket	 1.1.11 Ceiling mount Bracket	 1.1.12 User's manual

2 - Installation

2.1 Outdoor with heater & Blower

2.1.1 Names of parts

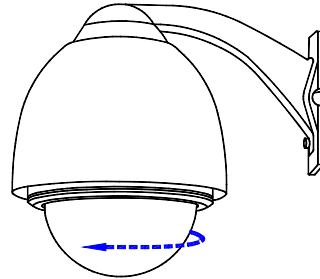
- A. Outer layer of base
- B. Base
- C. Cover
- D. Wall mounted Bracket
- E. Wire sheathing
- F. Securing screws for wire sheathing



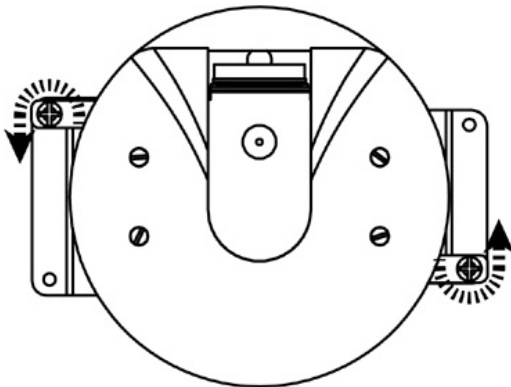
2.1.2 Remove protective lining.

2.1.2.1 Turn counterclockwise and carefully remove the protective lining.

2.1.2.2 Remove securing screw for shipment (M4 *10mm) by turning counterclockwise (As mark below).



⚠ Warning: Securing screw for shipment must be properly tightened before shipping this product.



Ad-hoc: Point to Point Mode.

Infrastructure: AP Mode.

31.364 Operation Mode: Auto/11b (Max. 11Mb)/11g (Max. 54Mb)

31.365 SSID: The name of Access Point that Speed Dome desire to connect.

31.366 Security: 64/128bit "WEP" and "WPA-PSK" security encryption.

More detailed information about WEP and WPA-PSK, please read Router's menu.

31.4 A/V SETTING:



31.41 Image Setting:

Adjust "Brightness", "Contrast", "Hue" and "Saturation".

Brightness:	<input type="text" value="0"/>	<input type="button" value="v"/>
Contrast:	<input type="text" value="0"/>	<input type="button" value="v"/>
Hue:	<input type="text" value="0"/>	<input type="button" value="v"/>
Saturation:	<input type="text" value="0"/>	<input type="button" value="v"/>

31.42 Video Setting:

31.421 Basic Mode:

Video Setting	
Video System:	PAL <input type="button" value="v"/>
Streaming 1 Setting	
<input checked="" type="radio"/> Basic Mode <input type="radio"/> Advanced Mode	
Resolution:	4CIF - 704x576 <input type="button" value="v"/>
Quality:	Best <input type="button" value="v"/>
Video Frame Rate:	15 FPS <input type="button" value="v"/>
Video Format:	JPEG <input type="button" value="v"/>
RTSP Path:	<input type="text"/> ex:rtsp://</> Audio:G.711
Streaming 2 Setting	
<input type="radio"/> Basic Mode <input type="radio"/> Advanced Mode <input checked="" type="radio"/> 3GPP Mode <input type="radio"/> Close	
Resolution:	QCIF 176x144 <input type="button" value="v"/>
Bitrate Control Mode:	<input checked="" type="radio"/> CBR <input type="radio"/> VBR
Video Quantitative:	7 <input type="button" value="v"/>
Video Bitrate:	128Kbps <input type="button" value="v"/>
Video Frame Rate:	5 FPS <input type="button" value="v"/>
GOP Size:	1 X FPS <input type="button" value="v"/> GOP = 10
Video Format:	MPEG4 <input type="button" value="v"/>
3GPP Path:	3g <input type="text"/> ex:rtsp://</>/3g Audio:AMR ex:rtsp://</>/3gx No Audio

up.

State: Idle → No DDNS Service

http ://<username>.ddns.camddns.com → DDNS Service Active

Update Failed: The name is already registered; Network

Connection Failure; Account information may be wrong.

DDNS

DDNS Setting

Enabled Disabled

Provider: ddns.camddns.com(TW)

Username:

Schedule Update: 30 Minutes

State

Idle

31.353 Third Party service: WWW.3322.ORG

Please go to the DDNS website to register and type the hostname, username and password.

31.36 Wireless Setting (optional) IEEE 802.11 b/g wireless network.

Wireless Setting

Status of Wireless Networks

SSID	Mode	Security	Signal strength
ture	Infrastructure	OFF	

Wireless Setting

MAC Address: 00:11:E2:09:15:98

Mode: Infrastructure

Operation Mode: Auto

SSID: ture

Security: None

31.361 Use RJ-45 wire to connect and setup. After setting, remove RJ45 wire.

31.362 MAC address: The MAC address of WiFi IP Speed Dome.

MAC address of wire and wireless are separated.

31.363 Mode: Ad-hoc/Infrastructure

2.1.2.3 Loads cover back and tightened all securing screws (Turn clockwise). **Make sure all the screws are properly tightened to keep camera waterproof**

2.1.2.4 Use securing screws (accessory 1.1.9) and choice of Wall mount bracket (accessory 1.1.10) or Ceiling mount bracket (accessory 1.1.11) install camera in an appropriate position.

❖ Do not touch lens with your hands or other objects.

❖ Do not turn the lens or remove other parts. Doing so may cause damage.

❖ Ceiling mount bracket(accessory 1.1.11) is for indoor use.

❖ **Make sure junction between dome cover , speed dome and bracket are air tight sealed with Silicon glue to keep speed dome waterproof.**

2.1.3 Basic setup

2.1.3.1 Please refer to 3.1 **Cable Connection** and 3.2 Cable specification: connect **Power line, Video cable, Infrared receiver insulation cable first**, then connect **Alarm cable and RS-485 PVC instrument cable (pair type) if needed**.

2.1.3.2 Load batteries into infrared remote control and use infrared remote control to setup camera ID and RS-485 control protocol. Please refer to **4 Infrared Remote control** and **5 Initial Programming**.

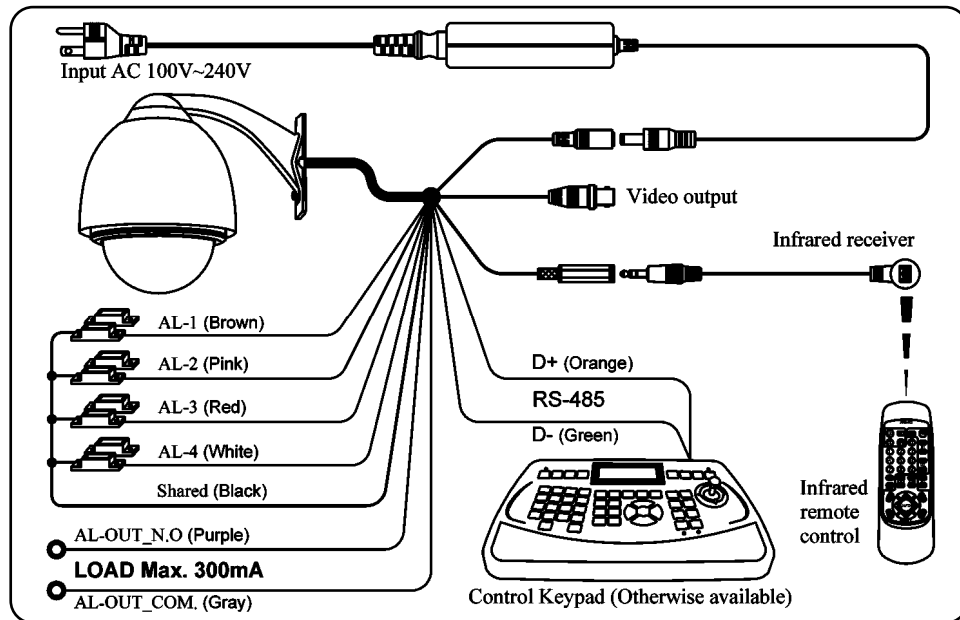
2.1.4 Install Speed Dome

Use securing screws (accessory 1.1.9) install speed dome in an appropriate position. Before installation, make sure the structure of location you choose can hold the weight of camera. (3.44Kg/7.58Pond)

❖ **Keep unconnected wires, plugs, duly insulated, or they may cause short circuit and damage this product.**

3 - Cable Connection

3.1 A-O Series



3.2 Cable specification:

Power line: 18AWG-2C

Video cable: 5C2V(5CFB) 168


Alarm cable: 22AWG-4C

Infrared receiver insulation cable: 22AWG-3C

RS-485 PVC instrument cable (pair type): 22AWG-1P

※ *To insure reliable operation, above requirements must be fulfilled . To obtain better quality, higher standard cable for long-distance transmission is recommended.*

31.35 DDNS: Supports DDNS (Dynamic DNS) service.

31.351 DynDNS: Only Dynamic service 

Key-in the hostname, username and password.

Schedule update: Default is 5 minutes. Please note that hostname will be blocked by DynDNS if schedule update is more than once every 5 minutes to 60 minutes.

DDNS	
DDNS Setting	
<input type="radio"/> Enabled	<input checked="" type="radio"/> Disabled
Provider:	dyndns.org
Hostname:	
Username:	
Password:	
Schedule Update:	5 Minutes
State	
Idle	
<input type="button" value="Apply"/>	

In general, schedule update in every 1,440 minutes is recommended.

If need DynDNS service, please go to

<http://www.dyndns.com> to register a free account.

State: Idle → No DDNS Service

http ://<username>.dyndns.com → DDNS Service Active

Update Failed: The name is already registered; Network

Connection Failure; Account information may be wrong.

31.352 Camddns service:

Key-in the hostname and username

Schedule update: Default is 5 minutes. It's recommended in each 1440 minutes. If IP between schedule (Ex.1440 minutes) is changed, IP in DDNS service will be changed too. If no IP is changed between schedule (Ex.1440 minutes), DDNS service will enforce to change IP when time is

DHCP
 Static
 IP Address:
 Subnet Mask:
 Gateway:
 DNS 0:
 DNS 1:

31.32 Static IP : IP Address, Subnet Mask, Gateway and DNS 0/1 manually.

31.33 DHCP : Using DHCP, it will get all the network parameters automatically from router.

31.34 Port Assignment:

Web Page Port:
 RTSP Port:
 RTP Start Port: [1024..10000]
 RTP End port: [1025..10000]
 UPnP: Enabled Disabled

Web Page Port: Default is port 80.

RTSP Port: Default is port 554 to transmit 3GPP streaming.

RTSP Start/End Port: Default is port 5000~9000.

31.35 PPPoE(xDSL Dial-Up mode):

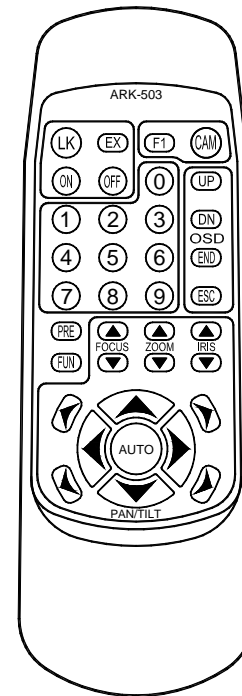
Enabled Disabled
 Username:
 Password:
 Send mail after dialed
 Enabled
 Subject:

31.341 Select "Enabled" PPPoE

31.342 Type Username and Password for the DSL connection.

31.343 Send mail after dialed: When connect to the internet, it will send a mail to a specific mail account. For the mail setting, please refer to "Mail and FTP" settings.

4 - Infrared Remote control



- Clear / Camera ID Display key
- Camera selected key.
- Number key for Input camera ID /Function setting
- Alarm/subtitle display on or off
- Alarm/subtitle display setting
- Manual zooming (WIDE / TELE)
- Manual focusing (FAR / NEAR)
- Star light night vision adjustment
- Camera direction control key and auto cruise key
- Call / Save / Clear preset positions
- Recall preset position
- Up / Right (OSD Menu)
- Down/Left (OSD Menu)
- Enter into (OSD Menu) / OK
- Exit from (OSD Menu) / Skip

- Make sure to press a key after another within 5 seconds, or you will make an invalid input.
- In case of erroneous input, press to clear.
- Keys without a description are not operational in this model.
- Make sure that there is nothing between the infrared receiver and the remote control.
- Effective distance of the remote control is 7 meters.
- If you find that the effective distance of the remote control is shortened, replace the batteries with new ones of the same spec.

5 - Initial Programming

Be sure to keep the remote control within 7 meters from the receiver. All inputs shall be made within 5 seconds, or the input mode would be cancelled automatically. In case of erroneous input, press **[LK]** to clear or escape from the operating mode.

5.1 Power on

After connect power for the first time, the camera will rotate once for reposition, which is normal.

5.2 Camera ID setup.

There are two ways to setup camera ID

5.2.1 Direct setup camera ID

5.2.1.1 Input digit **3→4→5→6→3→4→5→6→3→4→5→6→3** then camera will rotate once, indicate that camera is waiting for input camera ID

5.2.1.2 If a monitor is connecting to camera then the screen will show **KEYIN NEW ID: ---**, each digit input will show on the screen and the meantime camera will "nod". After that, you can input next digit.

5.2.1.3 Camera ID is three digits totally. It can be set from 001~255.

5.2.1.4 After input all three digits, camera will rotate once and go through Default preset point group 1 that indicate you already finished camera ID set up.

5.2.1.5 Check camera ID

5.2.1.5.1 Press **[LK]** button on the remote control, camera ID will show on the screen.

5.2.1.5.2 Press **[CAM]** button on the remote control then input camera ID (Three digits) check is the new camera ID show on the screen?

5.2.1.6 If any mistake made on the process of camera ID setup please repeat from 5.2.1.1 to 5.2.1.4

5.2.2 Camera ID setup from OSD MANUAL

Please refer 5.4.6 **ID-SET**.

System Update

Firmware Upgrade

Firmware Version: V3.2.60_Y

New Firmware: 浏览...

Upgrade

Reboot System

Start

Factory Default

Start

Setting Management

Save As a File: Right click the mouse button on Setting Download and then select Save As to save current system's setting in the PC.

New Setting File: 浏览...

Upgrade

New firmware download OK!
It is strongly recommended to stop any unnecessary jobs while updating firmware.
Please be patient and the updating process may take a long time.

Writing Progress: 20%

31.241 To upgrade the firmware online, click "Browse..." to select the location of firmware. Then click "Upgrade" to the procedure. Upgrading firmware in program as below shown.

31.242 Reboot system: Warm Start the IP Speed Dome.

31.243 Factory default: Return to factory settings. All settings by user will be removed.

31.244 Setting Management:

Save as a File: Save settings to a text file.

New Setting File: Restore the settings from files.

31.3 Network



31.31 IP Setting: DHCP and static IP.

The settings about IP address, subnet mask, gateway and DNS, please contact and inquire your local ISP provider

Server Time: 2009/5/17 17:11:27 Time Zone: GMT+08:00
 Date Format: yy/mm/dd mm/dd/yy dd/mm/yy
 Time Zone: GMT+08:00

NTP :
 NTP Server : 198.123.30.132
 Update : 6 Hour
 Time Shift : 0 Minutes [-1440..1440]

Synchronize with PC's time
 Date : 2009/10/23
 Time : 16:12:39

Manual
 Date : 2009/10/23
 Time : 16:54:49

The date and time remain the same

31.23 User Management (Administrator, PTZ and Guest).

User Management

Anonymous User Login
 YES NO Setting

Add User

Username:

Password:

Confirm:

UserGroup: PTZ Guest Add/Set

User List

Username	User Group	Modify	Remove
admin	Administrator	Edit	

31.23 Anonymous User Login: (YES/NO)

Yes: Allow anonymous login without password to view video.

No: Need user name & password when log in.

Add/Set User List: Type the user name and password, then click "Add/Set".

Click "Edit" or "Remove" to modify the user information.

31.24 System Update:

※ There is no time limit on the process of camera ID setup

※ Default of camera ID is "000". If you only use one camera you don't have to setup camera ID. You can operate all function through remote control directly.

※ Camera ID "000" is only for single camera user; if you have more than one camera you have to setup camera ID from "001".

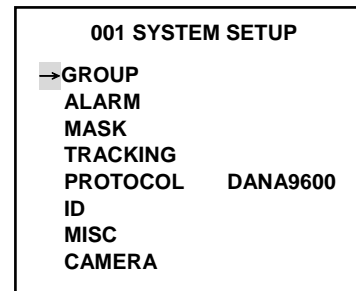
5.3 Load Default

Input digit 0→1→2→3→0→1→2→3→0→1→2→3→0, then all setup will be cleared and back to default.

5.4 OSD MENU FUNCTION SETUP

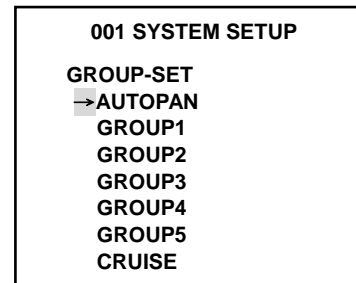
By holding **END** (for 5 seconds), OSD menu will show on the screen that indicates camera is standing by for system setup.

To escape from the menu, you may press and release **ESC** repeatedly until **001 SYSTEM SETUP** disappears or you may press **LK** to escape rapidly from the function menu. To do so, you must wait until **001 SYSTEM SETUP** disappears before proceeding.



- Up / Right key**
- Down / Left key**
- Enter (OSD MANU) / OK key**
- Escape (OSD MANU)/ Escape key**

5.4.1 GROUP



Select→GROUP

5.4.1.1 AUTO PAN

001 SYSTEM SETUP	
GROUP-SET	AUTOPAN
START-POINT	→ENT.
END-POINT	ENT.
SPEED	X2
RUNNING	ENT.

Select →AUTO PAN

START-POINT: PAN LIMIT TO THE LEFT
 END-POINT : PAN LIMIT TO THE RIGHT
 AUTO PAN SPEED SETUP 2.5° ~ 60° /s
 MIN, X1, X2, X3, X4, MAX
 2.5° 5° 10° 20° 40° 60°

RUNNING: Running Auto pan

5.4.1.2 GROUP1~ 5 Dwell time and cruise speed of group auto cruise set up

001 SYSTEM SETUP	
GROUP-SET	GROUP1
→DELAY	005
SPEED	MAX
RUNNING	ENT.

Enter into group setup

Choose group from group1~5

DELAY-SET is to setup dwell time of each preset position 005 ~ 255 seconds

005 ~ 255 stand for 005 ~ 255 seconds

SPEED-SET is to set the cruise speed of group auto cruise from 2.5° /sec ~ 320° /sec

MIN, X1, X2, X3, X4, X5, X6, X7, MAX
 2.5° 5° 10° 20° 40° 60° 80° 160° 320°

RUNNING: Running group auto cruise

5.4.1.3 CRUISE

001 SYSTEM SETUP	
GROUP-SET	CRUISE
START-RECORD	→ENT.
RUNNING	ENT.

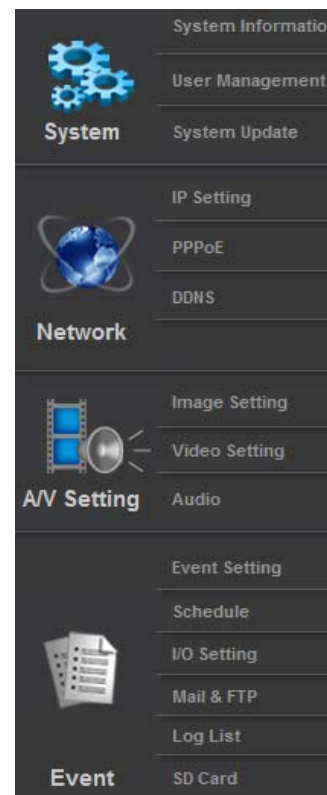
Select →CRUISE (Recorded Cruise)

1. Select START-RECORD
2. Press **END** and prepare to record
3. Adjust camera (including direction and zoom) to the spot you want to start recording.

※ When recording, zoom cannot be adjusted.

31.2 Configuration:

31.21 Control Interface:



31.22 System information:



31.220 MAC Address: MAC of Ethernet MAC Address: 00:0F:0D:20:0E:44

31.221 Server Name: Maximum 18 characters.

31.222 Select language: Language : English 繁體中文 简体中文 French Russian Italian

31.223 OSD Setting: Display the timer Enabled Disabled
 Position: Top-Left Top-Right Bottom-Left Bottom-Right

31.224 Server time setting: Use NTP or Input Date & Time manually.



31.11 : Administration page ;



: Snapshot ;



: Live Video

31.12 Chatting: : (Option Reserved)

31.13 Online visitors: How many people is connecting to this IP Dome.

31.14 Info Bar: Show system date, time, video resolution and FPS

2006/08/31 13:52:45 Size:720x480 FPS: 7

31.15 Double-click the video to change to full screen mode. Press "Esc" or double-click the video again to return normal mode.

31.16 Right-Click the mouse on the video, it will show a pop-up menu.

Snapshot Snapshot: Save a jpg picture

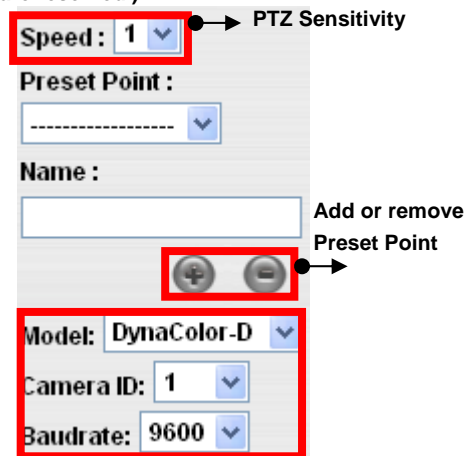
Record Start Record Start: Record the video in the local PC.

Mute Mute: Turn of the audio. Click again to turn on it.

Full Screen Full Screen: Full-screen mode.

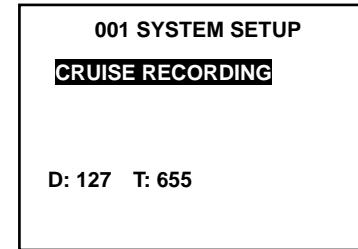
Note: When record Start, system will ask you where to save the video. If need stop recording, right-click the mouse again and select "Record Stop". The video format is AVI. Microsoft Media Player or some other MPEG4 media compatible players can play the recorded file.

31.17 PTZ Control Panel: (Relay Out 1~4 are reserved.)



It needs the same settings with Camera.
See P.14 Protocol and P.15 ID settings.

5.4.1.3.1 RECORDING

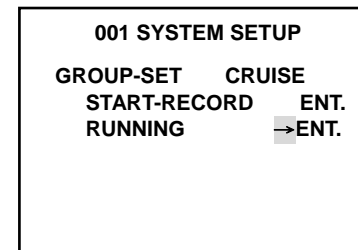


1. Press **END** to start recording
2. Use direction key to control camera to the spot need to be monitoring
3. When finish recording, press **END** to save

※ When recording only camera direction control key and **END** · **ESC** · **LK** key can function ◦

※ "D: 127" · "T: 655" Show on monitor indicate data and time left to be recorded

5.4.1.3.2 RUNNING CRUISE (PRECORDED CRUISE)

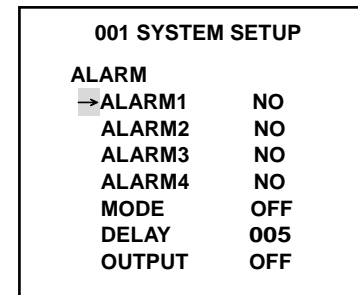


Select→ RUNNING

1. Press **END** twice to start cruise
2. Press any key to stop

※ When exit OSD MENU · press **AUTO** → 6 to start cruise.

5.4.2 ALARM



Select→ALARM

ALARM1~4 alarm trigger mode setup

- NO alarm triggered when short circuit
- NC alarm triggered when broken circuit
- OFF no alarm will be triggered

MODE : set alarm mode:

- SAT When alarm 1 triggered camera will automatically goes to preset position 1 · activate auto tracking function and output switch "ON" until finish delay time count down.
- ON When alarm 1 triggered camera will automatically goes to preset position 1 · activate output switch "ON" until finish delay time count down.
- OFF alarm output goes off

DELAY : Delay time setup, after finish delay time count down , camera will back to original status before alarm triggered.

BY SAT Delay time will automatically go with 5.4.4 TRACKING delay time setup ◦ (Can be set only when ALARM MODE set on SAT)

005 Delay time can be set from 005 ~ 255 秒 ◦ (Can be set only when ALARM MODE set on "ON" or "OFF")

OUTPUT : switch of small electric facility (Max load 300mA),
ON
OFF

(Only when MODE is setup to OFF, OUTPUT will show on the OSD MENU)

※ Output switch goes off by press **LK** key during delay time count down.
Auto tracking functions keep working.

※ Press **LK** key to know the current status of alarm.

Twinkling "AL001": ALARM1 keeping triggered.

"AL001": ALARM1 was triggered, but already goes off.

: No alarm been triggered.

5.4.3 MASK

001 SYSTEM SETUP	
GROUP	
ALARM	
MASK	→ NO .1
TRACKING	
PROTOCOL	DANA9600
ID	
MISC	
CAMERA	

Only M / T-Series provide Function

Only 4 blocks of privacy masking can be set in a single frame of monitor.

Maximum 24 blocks of privacy masking can be set ◦

Choose one block from No.1 ~ No. 24 ,

Press **END** to enter.

5.4.3.1 RELOAD, CLEAR, SETUP BLOCK OF MASKING

001 SYSTEM SETUP	
MASK	NO .1
RELOAD	→ ENT.
CLEAR	ENT.
SAVE	ENT.

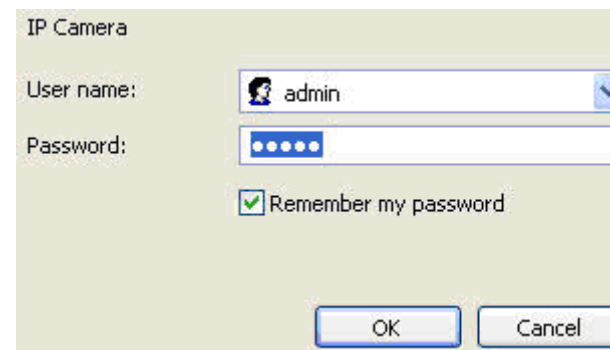
RELOAD Load masking or reload previous setup ◦

CLEAR Clear block of masking

SAVE Setup position and size of masking

31. Live Video

Start a IE browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Type the user name and password. **The default user name and password are "admin" and "admin"**.



IP Camera

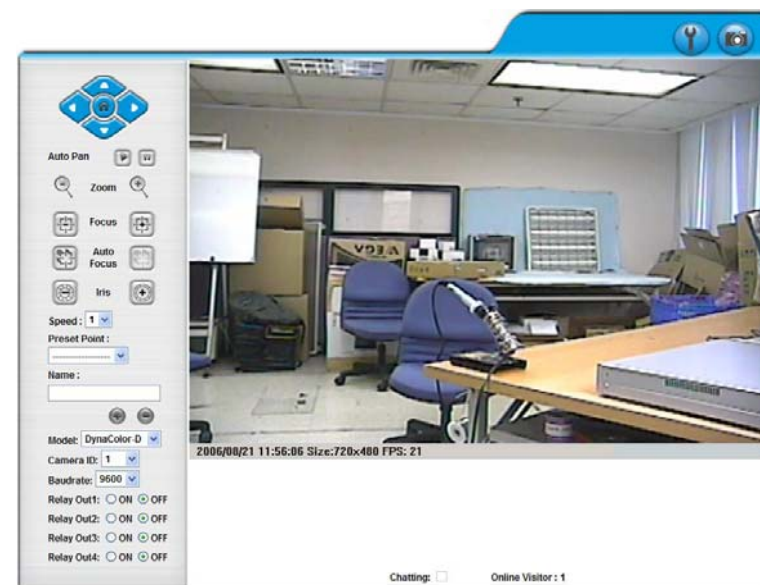
User name:

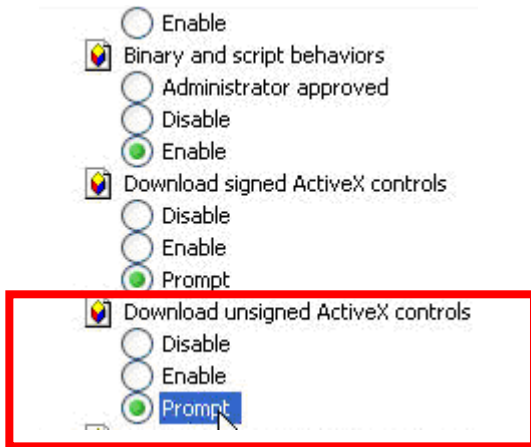
Password:

Remember my password

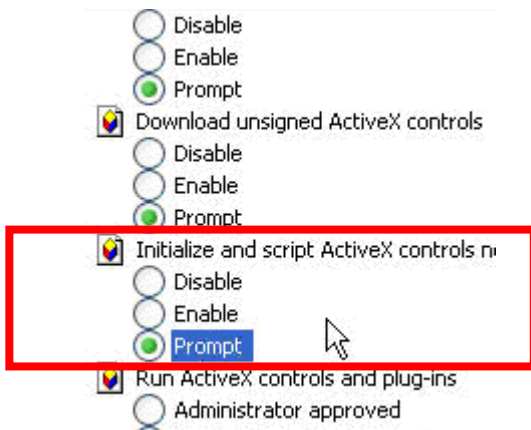
OK Cancel

31.1 The following GUI shows.





30.53 IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select “Enable” or Prompt.



5.4.3.2 SETUP POSITION AND SIZE OF MASKING

001 SYSTEM SETUP	
MASK	NO .1 MODIFY
H-POS.	→08
V-POS.	08
H-SIZE	08
V-SIZE	08

Enter SAVE, Use **UP** · **DN** key to adjust position and size of masking. Exit SAVE to finish setup.

H-POS. Horizontal position adjustment

V-POS. Vertical position adjustment

H-SIZE Horizontal size adjustment

V-SIZE Vertical size adjustment

5.4.4 AUTO TRACKING

001 SYSTEM SETUP	
TRACKING	
DELAY	→005
MODE	SAT2
RUNNING	ENT.

Only T-Series provide Auto Tracking Function

DELAY Delay time setup, can setup from 005 ~ 255Secs

MODE Tracking mode setup

SAT1 When the object been tracking make no move or out of range, start to count down delay time, when finish count down, camera automatically goes back to previous activate position to stand by.

SAT2 When activate Auto tracking function, start to count down delay time, when finish count down, camera automatically goes back to previous activate position to stand by.

RUNNING Activate Auto tracking function (* twinkles on upper-left corner of monitor after activate.

※ Auto tracking function may be influenced by dark environments or lights.

5.4.5 PROTOCOL

001 SYSTEM SETUP	
GROUP	
ALARM	
MASK	
TRACKING	
PROTOCOL	→ DANA9600
ID	
MISC	
CAMERA	

Select→PROTOCOL (*For RS-485 systems*)

DYNA9600 (*DYNACOLOR Rate 9600*)
 ELITAR2400 (*ELITAR Rate 2400*)
 CHIPER9600 (*CHIPER Rate 9600*)
 LILIN9600 (*LILIN Rate 9600*)
 PELCOD2400 (*PELCO-D Rate 2400*)
 PELCOP4800 (*PELCO-P Rate 4800*)
 PELCOP9600 (*PELCO-P Rate 9600*)

Please choose protocol that match to your control device (DVR or KEY PAD).

※ Protocol can not be set through RS-485

※ The only way to set protocol is through Infrared remote control

5.4.6 ID

001 SYSTEM SETUP	
ID	
OLD- ID: 000	
NEW- ID: - - -	
↑	
KEYIN NUM<000-255>	

Select→ID

Setup new camera ID (three digits 001~255) then press **END** to store.

※ Camera ID cannot be setup through RS-485.

※ Only way to setup camera ID is through infrared remote control.

5.4.7 MISC (Manual control speed setup, Auto flip, Default)

5.4.7.1 SPEED

001 SYSTEM SETUP	
MISC	
→SPEED	MAX
AUTO-FLIP	ON
DEFAULT	ENT.

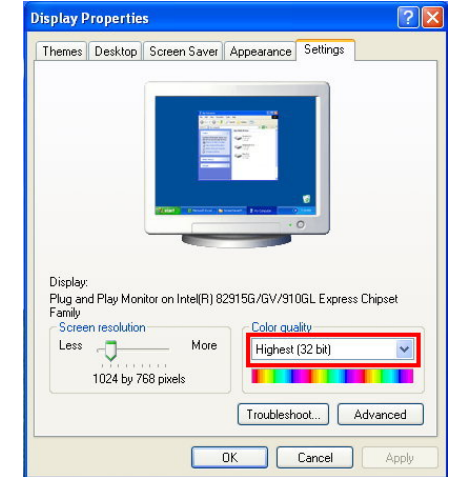
Select→SPEED

SPEED Manual control speed setup
 From 2.5°/sec to 160°/sec

MIN, X1, X2, X3, X4, X5, X6, MAX
 2.5° 5° 10° 20° 40° 60° 80° 160°

※ Rotation speed can be variable by controlling a joystick

30.42 Change color quality to highest (32bit).



30.5 Install ActiveX control:

30.51 For the first time to view the camera video via IE, program will ask to install the ActiveX component as below message.

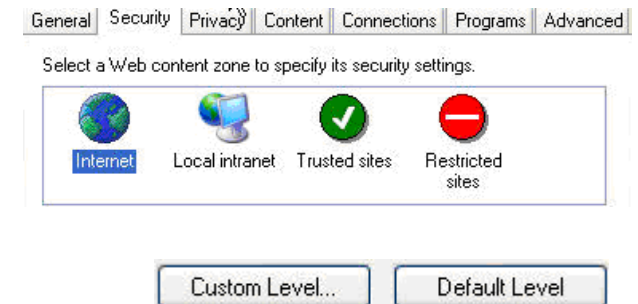
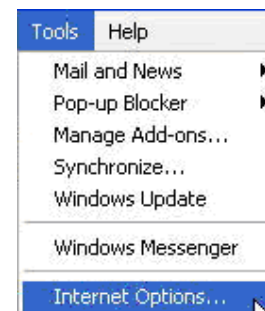


30.52 If the installation failed, please check the security setting for the IE browser.

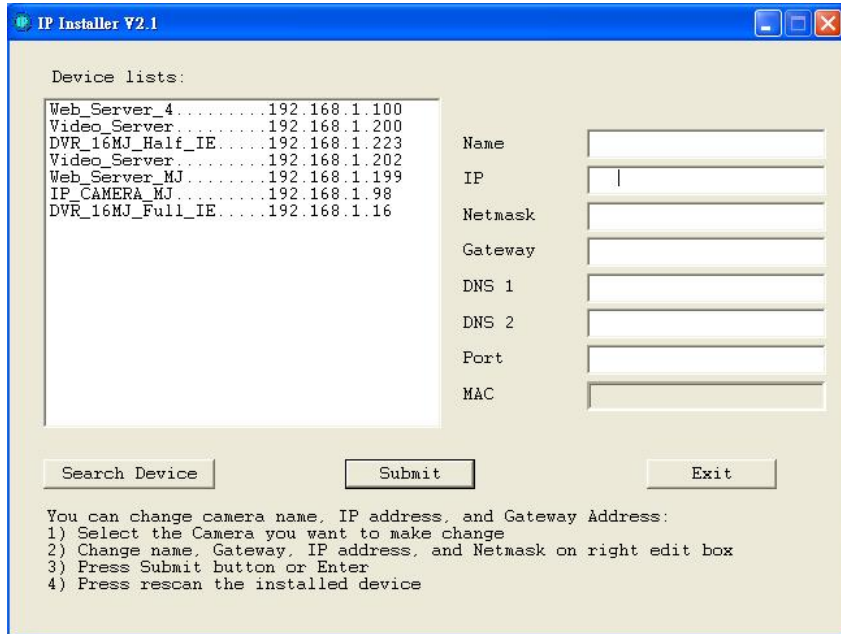
IE → Tools → Internet Options... → Security Tab → Custom Level... →

Security Settings → Download unsigned ActiveX controls → Select "Enable"

or Prompt.

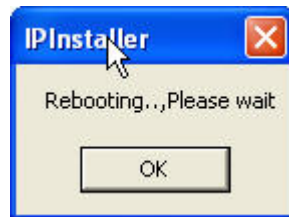


30.32 The GUI of the IP Installer:



30.33 IP Installer searches all the IP cameras which connect to the LAN and lists on the left side of the IP Installer. Just click the “Search Device” to re-search again.

30.34 Click one of the IP camera listed on the left side. The network configuration of this IP camera will show on the right side. Change the parameter and click “Submit”. The following dialogue box will show. Just click “OK”. It will the change the IP and reboot the camera.

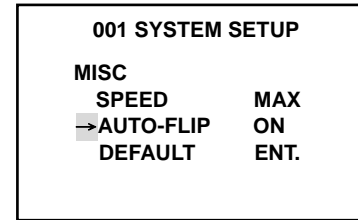


30.35 Click “Search Device” to research the IP camera. Double click the IP camera listed on the left side. It will open an IE browser and connect to this IP camera directly.

30.4 PC Color Quality Setting

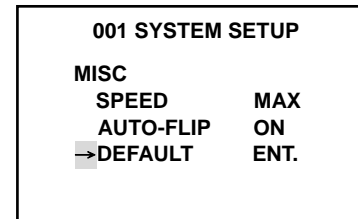
30.41 Right-Click on the desktop. Select “ Properties”

5.4.7.2 AUTO-FLIP



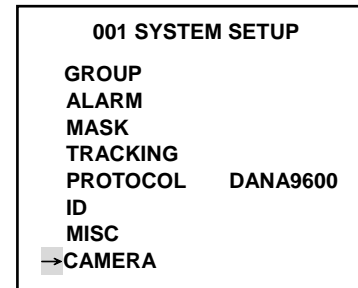
AUTO-FLIP
Select→AUTO-FLIP
ON
OFF

5.4.7.3 DEFAULT



DEFAULT
All Setup will restore DEFAULT
Except PROTOCOL and camera ID.

5.4.8 CAMERA



Select→CAMERA
※ Please refer to Page 28 for lens internal setting.
12 Lens internal setting

6 - Infrared Remote Control mode

6.1 Select Camera - By Input camera ID

6.1.1 Press CAM then CALL ID<001-255>: --- show on the screen.

6.1.2 Input CAMERA ID (Three digits) then you can set function or control camera.

Example: To select ID 1 camera: [CAM]→0→0→1, the operation must be completed within 5 seconds, or the Camera ID Selection mode would be cancelled automatically. When selecting a correct Camera ID, the Camera ID will appear on the screen; otherwise no display would appear on the screen.

※ If you do not know the Camera ID, Press [LK] to check the Camera ID.

6.2 Remote control

After you select the camera you want by input camera ID, then you may press the direction key or the lens control key to control it. Press it down for operation and release it to stop. When you operate, a status code will appear below the screen, such as: Direction key Up↑, Down↓, Left←, right→, Tilt left up↖, Tilt right up↗, Tilt left down↙, tilt right down↘, [ZOOM▲▼] z/Z, [FOCUS▲▼] f/F [IRIS▲▼] adjust IRIS from MIN ~ MAX °

※ The rotation speed will change according to the zoom lens in or out.(5~60°/sec).

For speed setting, please refer to MENU [SPEED-SET] menu setting.

※ When ↑ ↓ ← → twinkles means this direction is already to the end.

6.3 Alarms and Output On/Off

6.3.1 Press [EX] screen shows SET EX<1 - 5> -

6.3.2 Press 1~4 to choose alarm 1~4 on or off.

Example: Alarm input 1: [EX]→1→[ON] / [EX]→1→[OFF]

6.3.3 Press 5 to choose output ON or OFF

Example: Output ON: [EX]→5→[ON] / Output OFF: [EX]→5→[OFF]

※ When alarm input 1 triggered, the camera will corresponding goes to preset position. For alarm mode setting, please refer to MENU [ALARM-SET].

※ Output switch can control small electric facility **Max Load 300mA**.

※ Functional only when alarm-set : MODE is OFF

30. Network IP Assignment

30.1 Use the software, "IP Installer" to assign the IP address. The software is in the attached software CD.

30.2 There are two languages for the IP installer

30.21 IPInstallerCht.exe: Chinese version

30.22 IPInstallerEng.exe: English version

There are 3 kinds of IP configuration.

Static IP (Public IP or Virtual IP)

DHCP (Dynamic IP)

PPPoE (Dial-up)

30.3 Execute IP Installer

30.31 For Windows XP SP2 user, it may popup the following message box. Please click "Unblock".



29.4 PRIORITY

Selecting IR SW INT Detecting Signal

MISC	
H-REVERS	OFF
V-REVERS	OFF
POS/NEGA	POS
PRIORITY	→AGC
MASK A	OFF
MASK B	OFF

MISC MENU

Move cursor to PRIORITY, press ENTER key to enter PRIORITY menu.

Press UP or DOWN key to select AGC/SENSE UP.

29.5 MASK A / B

MASKING AREA SETTING

MISC	
H-REVERS	OFF
V-REVERS	OFF
POS/NEGA	POS
PRIORITY	AGC
MASK A	→ON.
MASK B	OFF

MISC MENU

Move cursor to MASK A/B, press ENTER key to enter MASK A/B menu.

Press UP or DOWN key to select ON/OFF.

Then press ENTER key to enter MASK A/B SETTING menu.

MASK A / B	
H-POSITION	→032
V-POSITION	064
H-SIZE	048
V-SIZE	032
CONNECTED	OFF

MASK A / B SETING MENU

Move cursor to H-POSITION, V-POSITION, H-SIZE or V-SIZE press ENTER key to enter NUMBER SETTING menu.

Press UP or DOWN key to adjust number (Adjusting H-POSITION, V-POSITION, H-SIZE or V-SIZE).

CONNECTED set OFF, MASK will be fixed.

CONNECTED set ON, MASK will be connected with zoom.

6.4 Preset positions Call, Save and Clear

6.4.1 Call

Press **PRE** once then input camera ID **CALL PRESET: --**
PRE→0→2 call preset 02

6.4.2 Save

Press **PRE** twice then input camera ID **CALL PRESET: --**
PRE→**PRE**→1→0 save preset 010

6.4.3 Clear

Press **PRE** three times then input camera ID **CALL PRESET: --**
PRE→**PRE**→**PRE**→0→6 clear preset 06

※ Preset position input limit from 01 to 62.

6.5 Call Next Preset Position

By press and release **FUN** key you may recall preset position 01 and see **CALL PRESET : 01 OK** on the screen. And by repeating this method you may check all preset positions. When execute **FUN**, the auto pan and group auto cruise will stop.

6.6 Execute Auto Pan Mode, Group Auto Cruise Mode, (Recorded) Cruise Mode and Auto Tracking Mode

Press **AUTO** screen shows **CALL GROUP <0 - 7> :-**

AUTO→0 : Auto Pan (Refer 5.4.1.1 Auto Pan SET to set auto pan limit.)

AUTO→1 : cruise preset 001 ~ 032 (01 ~ 16 M / T-Series)

AUTO→2 : cruise preset 033 ~ 064 (17 ~ 32 M / T-Series)

AUTO→3 : cruise preset 065 ~ 096 (33 ~ 48 M / T-Series)

AUTO→4 : cruise preset 096 ~ 128 (49 ~ 62 M / T-Series)

AUTO→5 : cruise preset 001 ~ 128 (01 ~ 62 M / T-Series)

AUTO→6 : Recorded cruise

AUTO→7 : Auto Tracking Mode (Only M / T-Series provide Function)

※ To execute group auto cruise, at least 2 positions shall be preset in each group.

※ Press any direction key to stop **AUTO** mode. When camera regains power after lost it, need 20 sec to restart and back to previous status.

6.7 Speed activate Auto Tracking Function

Adjust camera (Direction and zoom) to the spot to start auto tracking,

Press **AUTO**→7 to activate Auto Tracking.

(Setup please refer to 5.4.4 TRACKING)

7 - RS-485 Control mode

7.1 Initial Programming

If camera needs to connect to DVR or control panel (KEY PAD) you need to setup protocol match to DVR's or control panel's protocol. Please refer to

5.4.5 PROTOCOL.

※ This device is working in standard RS-485 communication format at the bps as set.

7.2 Connection

Please refer to **3 Wire Connections** and the wire specification. The reference connection diagram shows simple layout and this device is able to connect with as many as 128 units and integrated application with other systems.

7.3 Controls

All function depends on the control device such as DVR or Key Pad you choose. Function can be performed only if control device can support.

7.4 Protecting

To avoid lose control of camera when connecting to DVR or KEY PAD; (They might mistakenly reset camera ID or protocol). Camera's protocol and ID Can only be set through infrared remote control.

29.1 H-REVERS

Horizontal Reverse (Mirror) Function

MISC	
H-REVERS	→OFF
V-REVERS	OFF
POSI/NEGA	POSI
PRIORITY	AGC
MASK A	OFF
MASK B	OFF

MISC MENU

Move cursor to H-REVERS, press ENTER key to enter FREEZE ON/OFF menu.

Press UP or DOWN key to select ON/OFF.

29.2 V-REVERS

Vertical Reverse (Up-side Down) Function

MISC	
H-REVERS	OFF
V-REVERS	→OFF
POSI/NEGA	POSI
PRIORITY	AGC
MASK A	OFF
MASK B	OFF

MISC MENU

Move cursor to V-REVERS, press ENTER key to enter FREEZE ON/OFF menu.

Press UP or DOWN key to select ON/OFF.

29.3 POSI / NEGA

Positive or Negative Picture Function

MISC	
H-REVERS	OFF
V-REVERS	OFF
POSI/NEGA	→POSI
PRIORITY	AGC
MASK A	OFF
MASK B	OFF

MISC MENU

Move cursor to POSI/NEGA, press ENTER key to enter POSI/NEGA menu.

Press UP or DOWN key to select POSI/NEGA.

27 SCALE

ZOOM SCALE DISPLAY

SETUP MENU	[5/5]
ZOOM+AF	OFF
AF SLEEP	OFF
→SCALE	OFF
LANGUAGE	ENGLISH
MISC	

Page5 MAIN MENU

Move cursor to **SCALE**, press **ENTER** key to enter **SCALE ON/OFF** menu.

Press **UP** or **DOWN** key to select **ON/OFF**.

The zoom scale will be display on right-down of the screen in **SCALE ON** mode.

Note: The zoom scale is non-linear approximate value. It's a reference value for user.

28 LANGUAGE

OSD LANGUAGE SELECT

SETUP MENU	[5/5]
ZOOM+AF	OFF
AF SLEEP	OFF
SCALE	OFF
→LANGUAGE	ENGLISH
MISC	

Page5 MAIN MENU

Move cursor to **LANGUAGE**, press **ENTER** key to enter **LANGUAGE** selecting menu.

Press **UP** or **DOWN** key to select **ENGLISH**, **DEUTSCH** or **ITALIANO** language.

29 MISC

SETUP MENU	[5/5]
ZOOM+AF	OFF
AF SLEEP	OFF
SCALE	OFF
LANGUAGE	ENGLISH
→MISC	

Page5 MAIN MENU

Move cursor to **MISC**, press **ENTER** key to enter **MISC** menu.

8 - Maintenance & cleaning

■ Daily cleaning

Use a piece of soft and dry cloth to wipe off the dust from the dome cover. Dirt or scratch may influence focusing.

■ Lens cleaning

Use an exclusive lens cleanser to remove dust from the lens.

■ Removal of stubborn stains

To remove stubborn stains from the surface of the camera, use a soft cloth damped with diluted mild detergent, wiping it clean with a piece of dry soft cloth.

※ *When cleaning, be sure not to hurt the surface of the dome cover or leave water stains that may deteriorate image.*

■ Do not use benzene, diluents or gasoline and other corrosive solvents

Solvents may hurt the casing or damaged the dome cover.

9 - Troubleshooting

9.1 When no video image on the screen after successful mounting.

- 9.1.1 Make sure the video output connector of the camera is properly connected to the input of the monitor.
- 9.1.2 Double-check cable connections and the power supply.

9.2 Why the control fails to reach the preset position?

- 9.2.1 Make sure the preset positions are in normal operation.
- 9.2.2 Make sure the preset positions in a specific group has 2 or more .
- 9.2.3 Have you set all the preset positions of one group in the same position?

9.3 Unsuccessful control

- 9.3.1 Please check whether the control wire has properly connected.
- 9.3.2 Has the camera ID properly set? Have you selected the correct camera before operation?
- 9.3.3 Remote control aimed at the receiver? Does it in the effective range of 7 meters? Are the batteries dead?
- 9.3.4 Is the protocol match to the control device's?
(For RS-485 control)

9.4 Troubled control

- 9.4.1 Is the control wire in poor contact? Is it properly grounded? Is the wire experiences interference?
- 9.4.2 Make sure you use PVC instrument cable (pair type) as the extended control wire? (For RS-485 control)
- 9.4.3 Is the control distance too long? Double-check the spec of wire.

※ For more technical support, please contact your local dealer.

24 GAMMA

GAMMA SELECT

SETUP MENU [4/5]	
DEFAULT	CANCEL
FREEZE	OFF
FREEZE MODE	FIELD
ZOOM SPEED	MAX
FOCUS SPEED	MIN
GAMMA	→GAMMA1

Page4 MAIN MENU

Move cursor to set GAMMA menu, press ENTER key to select GAMMA mode , then Press UP or DOWN key to select GAMMA1 or GAMMA2.

GAMMA1 = 0.45

GAMMA2 = 1.0

25 ZOOM + AF

ZOOM TRIGGER AUTO FOCUS

SETUP MENU [5/5]	
→ZOOM+AF	OFF
AF SLEEP	OFF
SCALE	OFF
LANGUAGE	ENGLISH
MISC	

Page5 MAIN MENU

Move cursor to set ZOOM+AF mode, press ENTER key into select ZOOM+AF menu.

Press UP or DOWN key to select ON/OFF.

26 AF SLEEP

AUTO FOCUS SLEEP (WORK IN AUTO FOCUS ON MODE)

SETUP MENU [5/5]	
ZOOM+AF	OFF
→AF SLEEP	OFF
SCALE	OFF
LANGUAGE	ENGLISH
MISC	

Page5 MAIN MENU

Move cursor to AF SLEEP, press ENTER key to enter AF SLEEP ON/OFF menu.

Press UP or DOWN key to select ON/OFF.

The image change less than auto focus range in five minutes; the auto focus will sleep in AF SLEEP ON mode. If the image change more ± 6 dB than auto focus range, the auto focus will wake up.

21 FREEZE MODE

FREEZE FIELD (or FRAME) OF PICTURE FUNCTION

SETUP MENU [4/5]	
DEFAULT	CANCEL
FREEZE	OFF
FREEZE MODE	→FIELD
ZOOM SPEED	MAX
FOCUS SPEED	MIN
GAMMA	GAMMA1

Page4 MAIN MENU

Move cursor to FREEZE MODE, press ENTER key to select FREEZE MODE menu.

Press UP or DOWN key to select FIELD/FRAME.

22 ZOOM SPEED

ZOOM SPEED ADJUSTMENT

SETUP MENU [4/5]	
DEFAULT	CANCEL
FREEZE	OFF
FREEZE MODE	FIELD
ZOOM SPEED	→MAX
FOCUS SPEED	MIN
GAMMA	GAMMA1

Page4 MAIN MENU

Move cursor to ZOOM SPEED, press ENTER key to enter ZOOM SPEED SELECTING menu, then Press UP or DOWN key to select MAX, +3, +2, +1, MIN (5 steps adjustable).

23 FOCUS SPEED

FOCUS SPEED ADJUSTMENT

SETUP MENU [4/5]	
DEFAULT	CANCEL
FREEZE	OFF
FREEZE MODE	FIELD
ZOOM SPEED	MAX
FOCUS SPEED	→MIN
GAMMA	GAMMA1

Page4 MAIN MENU

Move cursor to set FOCUS SPEED, press ENTER key to FOCUS SPEED SELECTING menu, then Press UP or DOWN key to select MIN, +1, +2, +3, MAX (5 steps adjustable).

10 - Specifications

CAMERA

Pick-UP Device: 1/4" COLOR CCD SONY EXVIEW HAD / SUPER HAD (Day & Night)

Sync System: Internal synchronous

Resolution: 480 TVL (NTSC: 410K Pixel / PAL: 470K Pixel)

Sensitivity: 0.1 Lux ~ 0.002 Lux (Exview CCD) / 0.5 Lux ~ 0.01 Lux (Super CCD)

Lens: Canon 23x Zoom lens f 3.6 ~ 82.8mm / F 1.6 ~ 3.8 (10x Digital Zoom)

S/N Ratio: 50dB (AGC OFF)

IR-Cut Filter: Auto / Manual

Focus: Auto / Manual

Electronic shutter: NTSC:1/60 ~ 1/100,000 Sec. / PAL:1/50 ~ 1/100,000 Sec.

Video output: 1.0 Vp-p, 75Ω

γ Correction: 0.45 / 1

Gain Control: Super AGC 0 ~ 36dB

White Balance: ATW 2500~9500K Preset / Manual

AWB: AWB/ATW/OFF

BLC: Super BLC / 48 zone BLC

NETWORK

CPU ARM 9 ,32 bit RISC

RAM 64MB

ROM 8MB

Ethernet 10/ 100 Base-T

Wireless (Optional) IEEE 802.11b/g WiFi certified

WEP 64/ 128 bit

Network Protocol HTTP, TCP/ IP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP

Video Resolution NTSC: 720x480, 352x240, 176x120 PAL: 720x576, 352x288, 176x144

Image snapshot JPG or AVI

Full screen Supported

Compression format MPEG-4/ M-JPEG

Video bit rate adjust CBR(constant bit rate control), VBR(variable bit rate control)

Motion Detection 3 different areas

Triggered action Mail, FTP, Save to SD card

Pre/ Post alarm Pre/ Post each max.5/5 seconds.

Remote PTZ control Supported

Security Password protection

Firmware upgrade HTTP mode, can be upgraded remotely

Simultaneous Up to 10

SD Card trigger Motion Detection, IP check, Network down (Wire connection only)

SD storage format AVI, JPG

OS Supported Windows 2000, XP, 2003, IE 6 or above

Hardware PC Intel-C 2.0GHz, RAM: 512MB, Graphic memory: 64MB

Hardware Minimum PC Intel-C 1.6GHz, RAM: 256MB, Graphic memory: 32MB

WiFi (optional)

Range Coverage	Indoor: 35 ~ 100 meters(depends on environment) Outdoor: 100 ~ 300 meters (depends on environment)
Radio	IEEE 802.11b (DSSS); IEEE 802.11g (OFDM)
Transmission Rate	1, 2, 5.5, 6, 11, 12, 18, 24, 36, 48 and 54Mbps (auto sense)
Receiver Sensitivity	54Mbps: Typical -73dBm @ 10% PER 11Mbps: Typical -86dBm @ 10% PER
Frequency Range	2400 ~ 2497 MHz ISM band
Transmit Power	14.5dBm typically @ 802.11g; 17.5dBm typically @ 802.11b
Security	64/128-bits WEP Encryption Wireless Fidelity Protected Access (WPA)
Antenna	Integrated dual connectors for diversity antennas
Current Consumption	255mA typical for receive mode; 350mA typical for transmit mode

SPEED DOME OPERATION FEATURES

Rotation mode:	Auto Pan feature / Preset Position Patrol / Auto-flip
Rotation angle speed:	Horizontal Pan 0°~375° (400°/sec) / Vertical Tilt 0°~95° (330°/sec)
Speed setting:	Auto:2.5 ~ 60°/Sec / Manual:2.5~160°/Sec / Preset: Max.320° / Sec
DI / DO:	DI*4 / DO*2(Load Max 300mA)
Preset:	128 Points
Max link:	256
Control:	Internet control & Infrared Remote Control
Power supply:	INPUT DC 13.5V /3.0A
Ambient Operation:	□20℃ ~ 60℃ / 30% ~ 90% RH
Dimensions / Weight:	□217 x H175mm / 3.44Kg
Approval:	IP66

18 INITIAL

FOCUS RESET FUNCTION

SETUP MENU	[3/5]
POSITION	LOAD.
H-GAIN	+6
V-GAIN	+6
MOTION	ON.
IR	ON.
INITIAL	→ON

Page3 MAIN MENU

Move cursor to **INITIAL**, press **ENTER** key to enter **INITIAL ON/OFF** menu.

Press **UP** or **DOWN** key to select **ON/OFF**.

19 DEFAULT

RESTART THE CAMERA AND RESET PARAMETERS TO FACTORY'S DEFAULT.

SETUP MENU	[4/5]
DEFAULT	→CANCEL
FREEZE	OFF
FREEZE MODE	FIELD
ZOOM SPEED	MAX
FOCUS SPEED	MIN
GAMMA	GAMMA1

Page4 MAIN MENU

Move cursor to **DEFAULT**, press **ENTER** key to enter **DEFAULT CANCEL/OK** menu.

Press **UP** or **DOWN** key to select **OK**, then press **ENTER** key.

20 FREEZE

FREEZE PICTURE FUNCTION

SETUP MENU	[4/5]
DEFAULT	CANCEL
FREEZE	→OFF
FREEZE MODE	FIELD
ZOOM SPEED	MAX
FOCUS SPEED	MIN
GAMMA	GAMMA1

Page4 MAIN MENU

Move cursor to **FREEZE**, press **ENTER** key to enter **FREEZE ON/OFF** menu.

Press **UP** or **DOWN** key to select **ON/OFF**.

*1	*2	*3	OFF	x 2	x 4	x 6	x 8	x 12	x 16	x 32	x 64
BASE	x	x			MAX	16	15	14	13	11	9
+1	x		MAX	15	14	13	12	11	10	9	7
+2	x		16	14	13	12	11	10	10	8	6
+3	x		15	13	12	11	10	9	9	7	5
+4			MAX	14	12	11	10	9	8	6	4
+5			16	13	11	10	9	8	7	5	3
+6			15	12	10	9	8	7	6	4	2
+7			14	11	9	8	7	6	5	3	1
MAX			13	10	8	7	6	5	4	2	MIN

IR INT LEVEL TABLE

NOTE1:

*1: AGC LEVEL

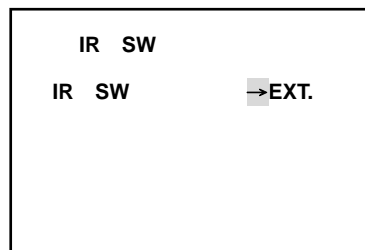
*2: IR INT LEVEL (ACT UP THE LEVEL)

*3: SENSE UP

NOTE2:

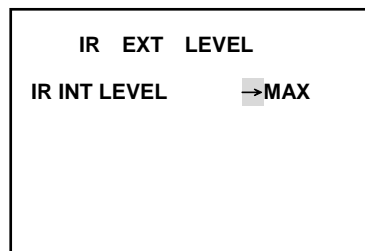
IR INT LEVEL (MAX) Approach 15Lux (illumination)

IR INT LEVEL (MIN) Approach 0.02Lux (illumination)



IR SW EXT. MENU

Press ENTER key to enter IR SW FUNCTION menu.
Press UP or DOWN key to select IR SW detection EXT.
IR SW will be set manual mode.



IR EXT LEVEL MENU

Press UP or DOWN key to select IR EXT LEVEL MAX or MIN.

IR EXT LEVEL MAX : IR CUT OFF (B/W MODE)

IR EXT LEVEL MIN : IR CUT ON (COLOR MODE)

11 - Optional accessories

YSS-02D/03D Multi-function keyboard

- For RS-485 control system
- Expandable to a medium or large system for integrated controls
- Extra-large LCD for easy reading
- Built-in universal joy stick of easy handling
- A variety of functions programmable with push buttons
- Apt for use in indoor environments



YSS-IR485 IR Control for camera

- For RS-485 control system
- Expandable into a simple one-to-multiple camera
- Compact & lightweight for easy installation
- IR remote control of easy operation
- To convert IR signals into RS-485 signals
- Apt for use in indoor environments



YSS-485A 485 Signal Amplifier

- For RS-485 control system
- Signal amplification for extended control distance
- Built-in surge protection and scramble signal resistance
- Compact & lightweight for easy installation
- Apt for use in indoor environments



YSS-2348 232 Signal Converter

- For RS-485 control system
- To convert RS-232 signals into RS-485 signals
- To convert PC, DVR control signals
- Compact & lightweight for easy installation
- Apt for use in indoor environments



YSS-01WM Reinforced wall Mount Bracket

- Easy installation
- Rigid and aesthetically designed
- Made of rigid materials
- Apt for use in indoor and outdoor environments
- From Armor Dome



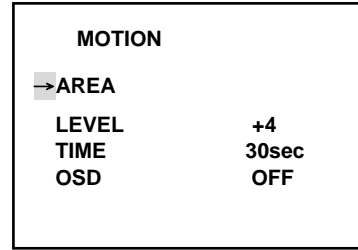
YSS-01WM Reinforced wall Mount Bracket

- Easy installation
- Rigid and aesthetically designed
- Made of rigid materials
- Apt for use in indoor and outdoor environments
- From Indoor Dome



YSS-03WM Flush Mount Bracket

- Easy installation
- Rigid and aesthetically designed
- Made of rigid materials
- Apt for use in indoor environments
- From Indoor Dome



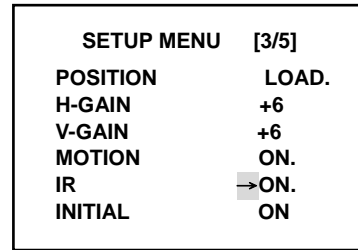
MOTION MENU

Press ENTER key to enter MOTION FUNCTION menu.
Press UP or DOWN key to select motion detection AREA, LEVEL (Sensitivity), TIME, OSD.

When detecting motion, it will output alarm signal.

17 IR

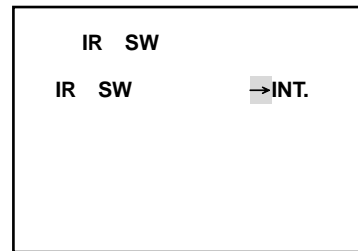
IR FILTER REMOVABLE FUNTION (DAY & NIGHT FUNCTION)



Page3 MAIN MENU

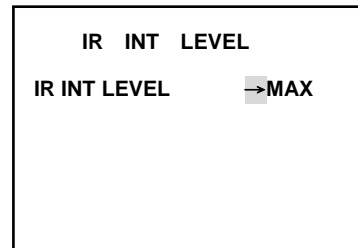
Move cursor to IR, press ENTER key to enter IR ON/OFF menu.

Press UP or DOWN key to select ON.



IR SW INT. MENU

Press ENTER key to enter IR SW FUNCTION menu.
Press UP or DOWN key to select IR SW detection INT.
IR SW can detect INT. (AGC and SENSE UP) signal.



IR INT LEVEL MENU

Press ENTER key to enter IR INT LEVEL ADJUSTMENT menu.
Press UP or DOWN key to select IR INT LEVEL MIN, +1, +2, +3, +4, +5, +6, +7, +8, +9, +11, +12, +13, +14, +15, +16, MAX, 18 steps adjustable.

14 H-GAIN

This is used to enhance the compensation of the picture quality.

H-GAIN: Horizontal Compensation

SETUP MENU [3/5]	
POSITION	LOAD.
H-GAIN	→+6
V-GAIN	+6
MOTION	OFF
IR	ON.
INITIAL	ON

Page3 MAIN MENU

Move cursor to H-GAIN, press ENTER key to enter H-GAIN ADJUSTMENT menu.

Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, +8, +9, +11, MAX, 13 steps adjustable.

15 V-GAIN

This is used to enhance the compensation of the picture quality.

V-GAIN: Vertical Compensation

SETUP MENU [3/5]	
POSITION	LOAD.
H-GAIN	+6
V-GAIN	→+6
MOTION	OFF
IR	ON.
INITIAL	ON

Page3 MAIN MENU

Move cursor to V-GAIN, press ENTER key to enter V-GAIN ADJUSTMENT menu.

Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, +8, +9, +11, MAX, 13 steps adjustable.

16 MOTION

MOTION DETECTION FUNCTION

SETUP MENU [3/5]	
POSITION	LOAD.
H-GAIN	+6
V-GAIN	+6
MOTION	→ON.
IR	ON.
INITIAL	ON

Page3 MAIN MENU

Move cursor to MOTION, press ENTER key to enter MOTION ON/OFF menu.

Press UP or DOWN key to select ON.

12 - Lens internal setting

SETUP MENU [1/5]	
CAMERA ID	OFF
SENSE UP	OFF
AISHUT	AUTO.
AES	FIX.
BLC	OFF
AGC	+4

Page1 MAIN MENU

SETUP MENU [2/5]	
WHITE BAL	ATW.
SYNC	OFF
ZOOM	
DIGITAL ZOOM	OFF
FOCUS	
AUTO FOCUS	OFF

Page2 MAIN MENU

SETUP MENU [3/5]	
POSITION	LOAD.
H-GAIN	+6
V-GAIN	+6
MOTION	OFF
IR	ON.
INITIAL	ON

Page3 MAIN MENU

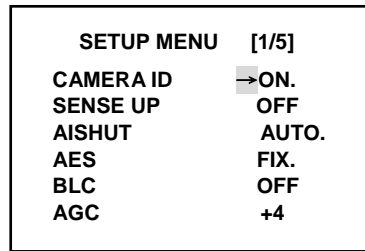
SETUP MENU [4/5]	
DEFAULT	CANCEL
FREEZE	OFF
FREEZE MODE	FIELD
ZOOM SPEED	MAX
FOCUS SPEED	MIN
GAMMA	GAMMA1

Page4 MAIN MENU

SETUP MENU [5/5]	
ZOOM+AF	OFF
AF SLEEP	OFF
SCALE	OFF
LANGUAGE	ENGLISH
MISC	

Page5 MAIN MENU

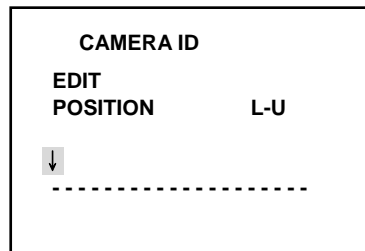
1 CAMERA ID



Page1 MAIN MENU

Move cursor to CAMERA ID, press ENTER key to enter ID FUNCTION SELECTING menu, then Press UP or DOWN key to select ON.

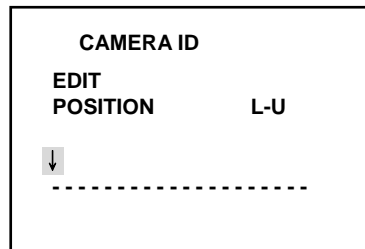
Press ENTER key to enter CAMERA ID EDIT menu.



CAMERA ID EDIT MENU

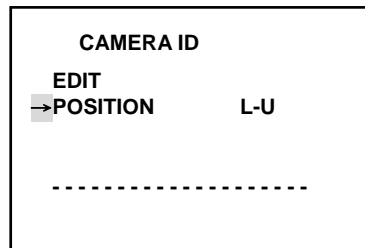
Press ENTER key to edit ID character, then press UP or DOWN key to select ID character position (total twenty character positions).

Press ENTER key to enter ID characters menu.



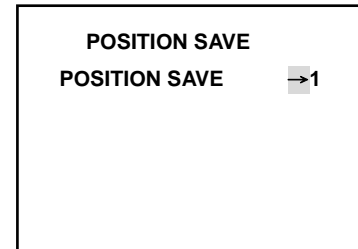
ID CHARACTER MENU

Select the desired character by using UP and DOWN button, and Press ENTER key to confirm the blinking character .The first character is saved and the cursor in the button of the screen moves to next (Maximum 20 characters).



CAMERA ID EDIT MENU

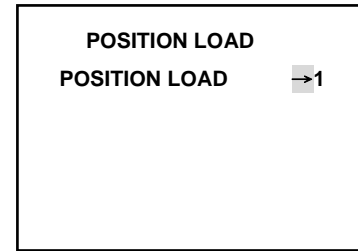
Move cursor to POSITION, press ENTER key to enter ID POSITION SELECTING menu, then Press UP or DOWN key to select ID POSTION L-U,R-D,L-D or R-U .



POSITION SAVE MENU

There have 64 steps (position with zoom & focus) can be programmed.

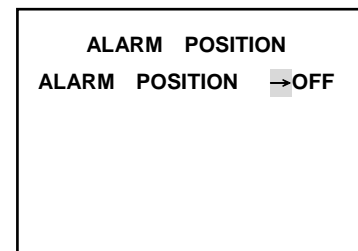
After adjusting position with zoom & focus, Press ENTER key to enter POSITION SAVE SELECTNG menu. Press UP or DOWN key to select position (1 to 64 position that you want to save), then press ENTER key that will be saved.



POSITION LOAD MENU

Press ENTER key to enter POSITION LOAD SELECTNG menu.

Press UP or DOWN key to select position (1 to 64 position that you want to LOAD), then press ENTER key that will be loaded.

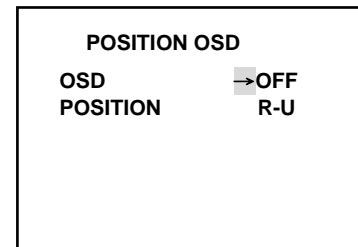


ALARM POSITION MENU

Press ENTER key to enter ALARM POSITION SELECTNG menu.

Press UP or DOWN key to select alarm position (OFF, 1 to 64 position that you want to set), then press ENTER key that will be set.

When input alarm signal, alarm position will be loaded.



POSITION OSD MENU

Display position number.

OSD set ON, position number will be display on right-up(R-U) or right-down(R-D) of the screen.

11 FOCUS

SETUP MENU	[2/5]
WHITE BAL	AWB.
SYNC	OFF
ZOOM	
DIGITAL ZOOM	OFF
→FOCUS	
AUTO FOCUS	OFF

Page2 MAIN MENU

Move cursor to FOCUS, press ENTER key to enter FOCUS ADJUSTMENT menu.

FOCUS	
FAR	█----- NEAR

FOCUS ADJUSTMENT MENU

Press UP or DOWN key to select FOCUS FAR to NEAR.

12 AUTO FOCUS

SETUP MENU	[2/5]
WHITE BAL	AWB.
SYNC	OFF
ZOOM	
DIGITAL ZOOM	OFF
FOCUS	
AUTO FOCUS	→ON

Page2 MAIN MENU

Move cursor to AUTO FOCUS, press ENTER key to enter AUTO FOCUS FUNCTION SELECTING menu.

Press UP or DOWN key to select AUTO FOCUS ON or OFF.

13 POSITION

SETUP MENU	[3/5]
POSITION	→LOAD.
H-GAIN	+6
V-GAIN	+6
MOTION	OFF
IR	ON.
INITIAL	ON

Page3 MAIN MENU

Move cursor to POSITION, press ENTER key to enter POSITION FUNCTION SELECTING menu.

Press UP or DOWN key to select LOAD, SAVE, ALARM, and OSD.

2 SENSE UP

SETUP MENU	[1/5]
CAMERA ID	OFF
SENSE UP	→OFF
AISHUT	AUTO.
AES	FIX.
BLC	OFF
AGC	+4

Page1 MAIN MENU

Move cursor to SENSE UP, press ENTER key to enter SENSE UP FUNCTION SELECTING menu, then Press UP or DOWN key to select OFF, x2, x4, x6, x8, x12, x16, x32 or x64 (0 Frame, 2 Frames, 4 Frames, 6 Frames, 8 Frames, 12 Frames, 16 Frames, 32 Frames, 64 Frames, 9 steps adjustable).

3 AISHUT

3.1 AISHUT AUTO MODE

SETUP MENU	[1/5]
CAMERA ID	OFF
SENSE UP	OFF
AISHUT	→AUTO.
AES	FIX.
BLC	OFF
AGC	+4

Page1 MAIN MENU

Move cursor to AISHUT, press ENTER key to enter AISHUT FUNCTION SELECTING menu, then Press UP or DOWN key to select AUTO.

Press ENTER key to enter AUTO LEVEL ADJUSTMENT menu.

AISHUT	
AUTO LEVEL	→+4

AUTO LEVEL ADJUSTMENT MENU

Press ENTER key to enter AUTO LEVEL SELECTING menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX.

3.2 AISHUT FIX MODE

SETUP MENU	[1/5]
CAMERA ID	OFF
SENSE UP	OFF
AISHUT	→FIX.
AES	FIX.
BLC	OFF
AGC	+4

Page1 MAIN MENU

Move cursor to AISHUT, press ENTER key to enter AISHUT FUNCTION SELECTING menu, then Press UP or DOWN key to select FIX.

Press ENTER key to enter FIX LEVEL ADJUSTMENT menu.

AISHUT	
FIX LEVEL	→+4

FIX LEVEL ADJUSTMENT MENU

Press ENTER key to enter FIX LEVEL SELECTING menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX.

4 AES

4.1 AES FIX MODE

SETUP MENU	[1/5]
CAMERA ID	OFF
SENSE UP	OFF
AISHUT	AUTO.
AES	→FIX.
BLC	OFF
AGC	+4

Page1 MAIN MENU

Move cursor to AES, press ENTER key to enter AES FUNCTION SELECTING menu, then Press UP or DOWN key to select FIX.

Press ENTER key to enter FIX LEVEL ADJUSTMENT menu.

AES	
FIX LEVEL	→OFF

FIX LEVEL ADJUSTMENT MENU

Press ENTER key to enter FIX LEVEL SELECTING menu, then Press UP or DOWN key to select OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000 or 1/10000.

8 SYNC

SETUP MENU	[2/5]
WHITE BAL	AWB.
SYNC	→OFF
ZOOM	
DIGITAL ZOOM	OFF
FOCUS	
AUTO FOCUS	OFF

Page2 MAIN MENU

This function is used to adjust phase of external sync. When input external sync, we can press ENTER key to set SYNC ON, then press UP or DOWN key to adjust phase.

9 ZOOM

SETUP MENU	[2/5]
WHITE BAL	AWB.
SYNC	OFF
→ZOOM	
DIGITAL ZOOM	OFF
FOCUS	
AUTO FOCUS	OFF

Page2 MAIN MENU

Move cursor to ZOOM, press ENTER key to enter ZOOM ADJUSTMENT menu.

ZOOM	
WIDE	█----- TELE

ZOOM ADJUSTMENT MENU

Press UP or DOWN key to select ZOOM WIDE to TELE, 1 to 23 times adjustable.

10 DIGITAL ZOOM

SETUP MENU	[2/5]
WHITE BAL	AWB.
SYNC	OFF
ZOOM	
DIGITAL ZOOM	→ON
FOCUS	
AUTO FOCUS	OFF

Page2 MAIN MENU

Move cursor to DIGITAL ZOOM, press ENTER key to enter DIGITAL ZOOM FUNCTION SELECTING menu.

Press UP or DOWN key to select DIGITAL ZOOM ON or OFF (1 to 10 times adjustable).

7.2 AWB

SETUP MENU	[2/5]
WHITE BAL	→AWB.
SYNC	OFF
ZOOM	
DIGITAL ZOOM	OFF
FOCUS	
AUTO FOCUS	OFF

Page2 MAIN MENU

Move cursor to WHITE BAL, press ENTER key to enter WHITE BAL FUNCTION SELECTING menu, then Press UP or DOWN key to select AWB.

Press ENTER key to enter AWB LEVEL ADJUSTMENT menu.

AWB LEVEL	
AWB LEVEL	→MIDDLE
R-Y GAIN	+4
B-Y GAIN	+4

AWB LEVEL ADJUSTMENT MENU

Press ENTER key to enter AWB LEVEL ADJUSTMENT menu, then Press UP or DOWN key to select RED, RED+, RED++, RED+++, MIDDLE, BLUE, BLUE+, BLUE++, BLUE+++, 9 steps adjustable.

AWB LEVEL	
AWB LEVEL	MIDDLE
R-Y GAIN	→+4
B-Y GAIN	+4

R-Y GAIN ADJUSTMENT MENU

Move cursor to R-Y GAIN, press ENTER key to enter R-Y GAIN ADJUSTMENT menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX, 9 steps adjustable.

AWB LEVEL	
AWB LEVEL	MIDDLE
R-Y GAIN	+4
B-Y GAIN	→+4

R-Y GAIN ADJUSTMENT MENU

Move cursor to B-Y GAIN, press ENTER key to enter B-Y GAIN ADJUSTMENT menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX, 9 steps adjustable.

4.2 AES AUTO MODE

SETUP MENU	[1/5]
CAMERA ID	OFF
SENSE UP	OFF
AISHUT	AUTO.
AES	→AUTO.
BLC	OFF
AGC	+4

Page1 MAIN MENU

Move cursor to AES, press ENTER key to enter AES FUNCTION SELECTING menu, then Press UP or DOWN key to select AUTO.

Press ENTER key to enter AUTO LEVEL ADJUSTMENT menu.

AES	
AUTO LEVEL	→+4

AUTO LEVEL ADJUSTMENT MENU

Press ENTER key to enter AUTO LEVEL SELECTING menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX.

5 BLC

SETUP MENU	[1/5]
CAMERA ID	OFF
SENSE UP	OFF
AISHUT	AUTO.
AES	AUTO.
BLC	→ON.
AGC	+4

Page1 MAIN MENU

Move cursor to BLC, press ENTER key to enter BLC FUNCTION SELECTING menu, then Press UP or DOWN key to select ON.

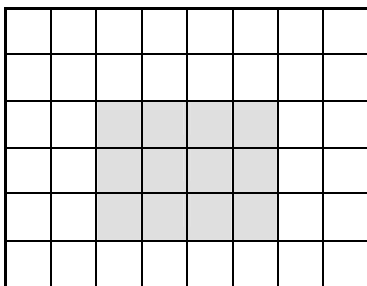
Press ENTER key to enter BLC AES AND LEVEL ADJUSTMENT menu.

BLC		
→BLC AREA		
BLC LEVEL		MIN

AREA AND LEVEL ADJUSTMENT MENU

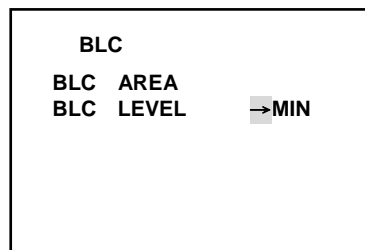
Press ENTER key to enter BLC AREA ADJUSTMENT menu.

Press ENTER key to set BLC AREA BLOCK. Press UP or DOWN key to select BLC AREA BLOCK.



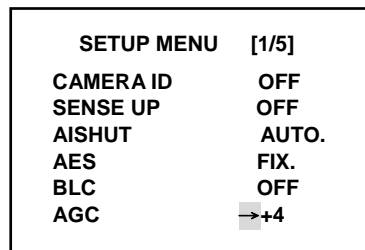
OPD WINDOW

This method is suited for cases where the main subject is fixed within the screen. The important object in a scene is usually placed in the center of the monitor's screen. In this mode more photometric weight is given to the center of the screen than to the edge of the picture, this function will eliminate the interference by strong background light which makes the camera picture dark. The size and location of center window can be adjusted freely by user within 48 area on screen (detail please see OPD setting)



Press ENTER key to enter BLC LEVEL ADJUSTMENT menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, MAX.

6 AGC

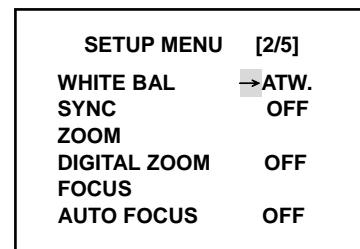


AGC ADJUSTMENT MENU

Move cursor to AGC, press ENTER key to enter AGC LEVEL SELECTING menu, then Press UP or DOWN key to select BASE, +1, +2, +3, +4, +5, +6, +7, MAX (0dB ~ 36dB, 9 steps adjustable).

7 WHITE BALANCE

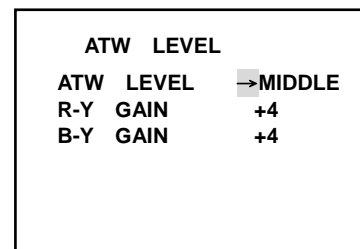
7.1 ATW



Page2 MAIN MENU

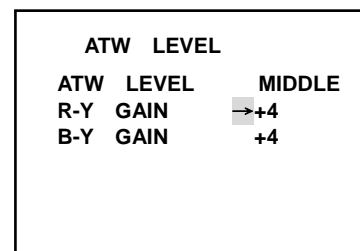
Move cursor to WHITE BAL, press ENTER key to enter WHITE BAL FUNCTION SELECTING menu, then Press UP or DOWN key to select ATW.

Press ENTER key to enter ATW LEVEL ADJUSTMENT menu.



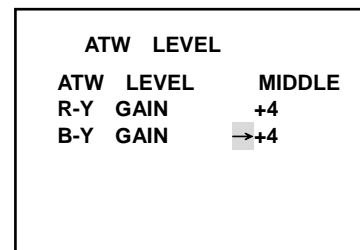
ATW LEVEL ADJUSTMENT MENU

Press ENTER key to enter ATW LEVEL ADJUSTMENT menu, then Press UP or DOWN key to select RED, RED+, RED++, RED+++, MIDDLE, BLUE, BLUE+, BLUE++, BLUE+++, 9 steps adjustable.



R-Y GAIN ADJUSTMENT MENU

Move cursor to R-Y GAIN, press ENTER key to enter R-Y GAIN ADJUSTMENT menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX, 9 steps adjustable.



R-Y GAIN ADJUSTMENT MENU

Move cursor to B-Y GAIN, press ENTER key to enter B-Y GAIN ADJUSTMENT menu, then Press UP or DOWN key to select MIN, +1, +2, +3, +4, +5, +6, +7, MAX, 9 steps adjustable.