



BDeye combined CCTV video door access system



USER MANUAL



www.espu.com

Contents

- What is included and Optional Extras 3
- Description 4
- Installation 6
- Operation 7
- Operation Buttons 8
- Setup 9
- Network 15
- Video Playback 20
- Operation Instruction 21
- Technical Specification 22

What is included



Monitor



Camera



Remote Controller



15m Camera Cable



Software



500GB Hard Drive



User Manual

Optional Extras



VDE Call Point



Camera



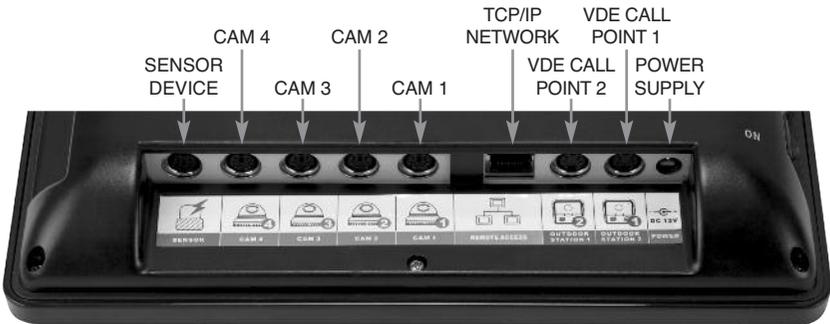
Camera Extension Cable



VDE Extension Cable

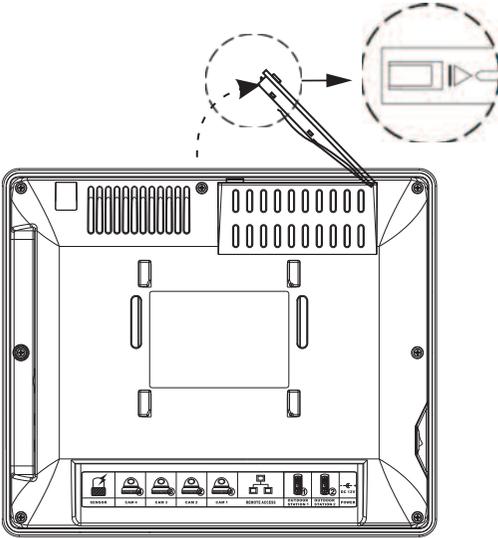
Description

MONITOR

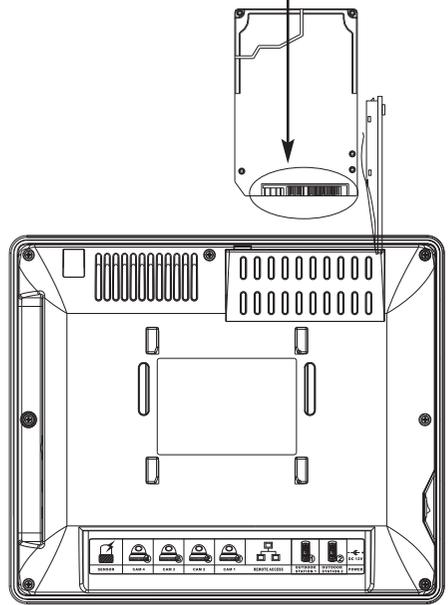


INSERTION OF THE HARD DISK DRIVE

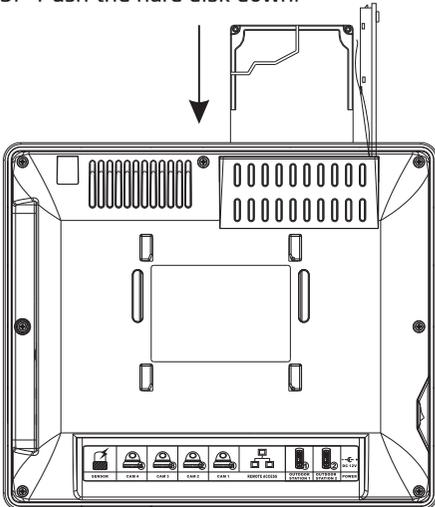
1. Follow the direction marked beside the button to open the cover of the hard disk cartridge.



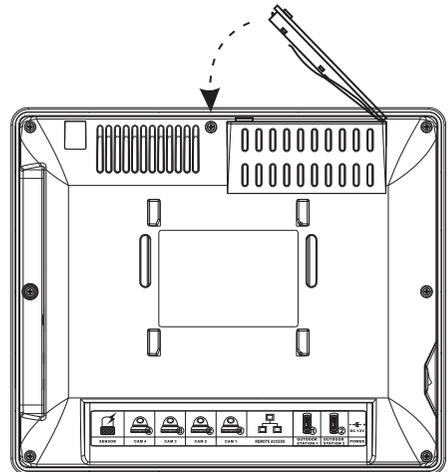
2. Insert the hard disk paying attention to the direction of the slot.



3. Push the hard disk down.

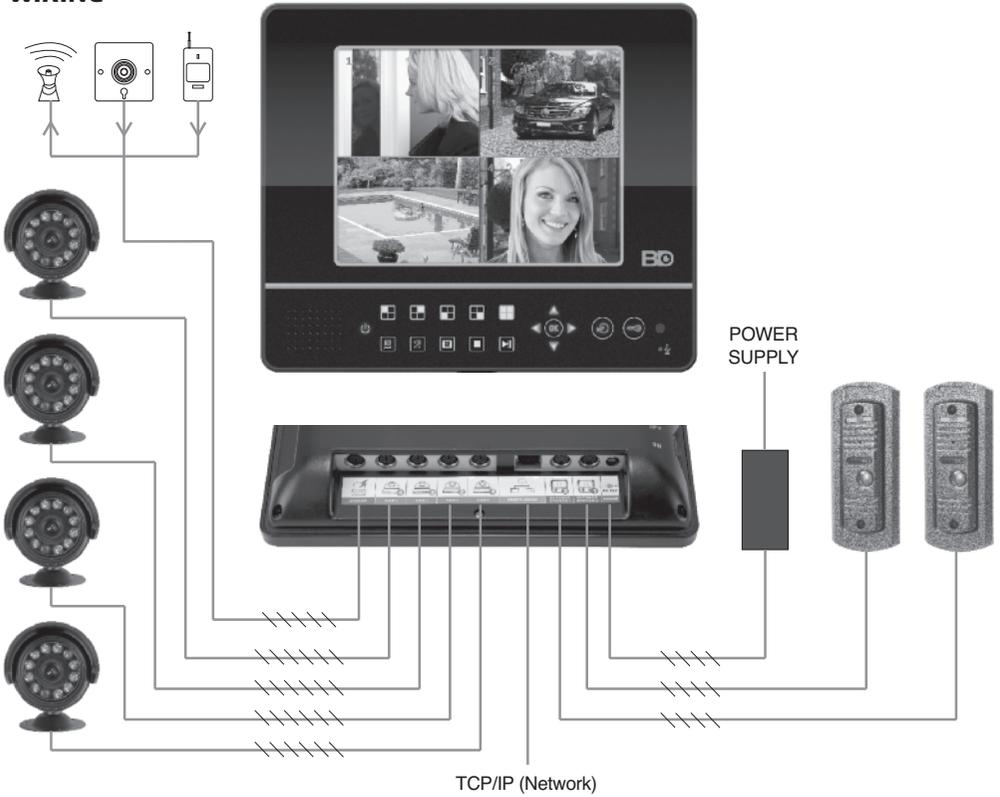


4. Close the cover.

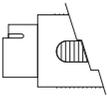


Installation

WIRING

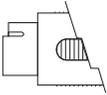


6-Pin connector for camera (BDeye Cam)



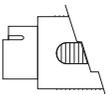
- | | |
|-----------------------------------|-----------------------|
| 1 - GND for Video (Black) | 6 - Audio In (White) |
| 2 - Control (Blue) | 5 - Video In (Yellow) |
| 3 - GND for Audio & Power (Brown) | 4 - VDD (Red) |

4-Pin connector for video door entry call point (BDeye VDE)



- | | |
|--------------------|-------------------|
| 1 - GND (Black) | 3 - B+ (Red) |
| 2 - Video (Yellow) | 4 - Audio (White) |

5-Pin connector for alarm device



- | | |
|----------------------|----------------------|
| 1 - Alarm Out (Blue) | 5 - GND (Black) |
| 2 - Alarm In (Brown) | 4 - Sensor 1 (Red) |
| | 3 - Sensor 2 (White) |

Operation

HOW TO TURN ON

1. Push the power switch on the left side of the indoor unit, the monitor will start.
2. The monitor shows quad monitoring at start up as shown in Fig. 1 after system check.
3. If the time is within schedule recording time, the system will automatically start the schedule recording approximately 10 seconds after the boot up as shown in Fig. 2.



Fig. 1



Fig. 2

HOW TO TURN OFF

1. Press the stop button  to stop recording.
2. Push the power switch on the left side of the indoor unit, the monitor will turn off.

DESCRIPTION OF DISPLAY

1, 2, 3, 4	Channel Number
●	Video recording status. Red dot means recording.
	Channel with audio input. Red icon means recording and white one means no recording. The recording status can be changed in the SETUP->AUDIO PORT->RECORDING.
	Outputting audio information. One channel audio can be outputted by the microphone of the monitor. The user can press to select one channel audio to be outputted or close the audio outputting.
A?REC	Always recording.
S?REC	Sensor recording.
N?REC	No recording.
75%	Used space of hard disk. "" means that the disk is in overwriting status.
DATE/TIME	System date/time.

Note: Your previous settings of the monitor will remain the same when it's restarted from power cut or shut off.

Operation buttons



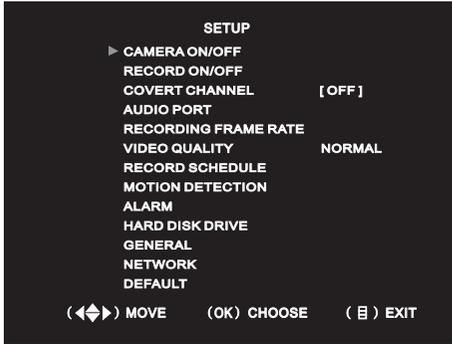
ICON	NAME	OPERATION
	Display	Full Screen Display of Channel 1/Number 1
	Display	Full Screen Display of Channel 2/Number 2
	Display	Full Screen Display of Channel 3/Number 3
	Display	Full Screen Display of Channel 4/Number 4
	Display	Quad Display
	Setup	Enter/Exit Setup
	Audio Channel	Switch/Close Audio Output
	REC	Start/Stop Recording
	Stop	Stop
	Play	Play/Pause
	Move/Confirm	Up
	Move/Confirm	Down
	Move/Confirm	Left/Backward
	Move/Confirm	Right/Forward
	Move/Confirm	Choose/Confirm
	Talk/Monitoring	Talk/Monitoring/Turn on Monitor Display
	Unlock	Unlock
	Display On/Off	Turn On/Off Monitor Display

Note: Buttons on the remote controller are same functions as on monitor buttons, except the (On/Off) on the remote controller.

Setup

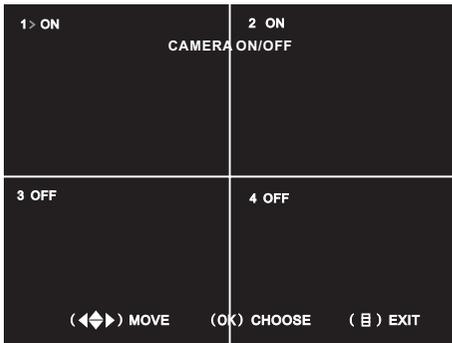
To enter SETUP menu, press the stop button , then press .

The following screen will display:



CAMERA ON/OFF

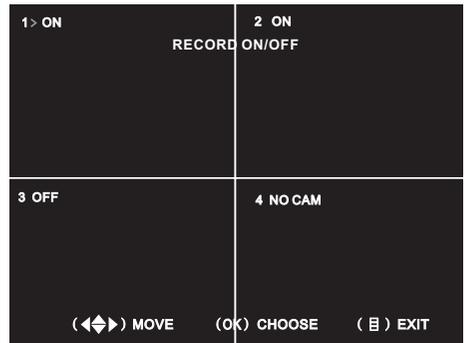
Each channel can be set ON or OFF. If set to OFF, the corresponding screen goes black and recording function is disabled. Default is ON.



Press     to move the red ► to select the channel, then press  to set the camera connected to this channel to be ON or OFF.

RECORD ON/OFF

Video recording function of each channel can be enabled or disabled separately. If it is set to OFF, the screen will keep showing the surveilled scene, but it will not be recorded.

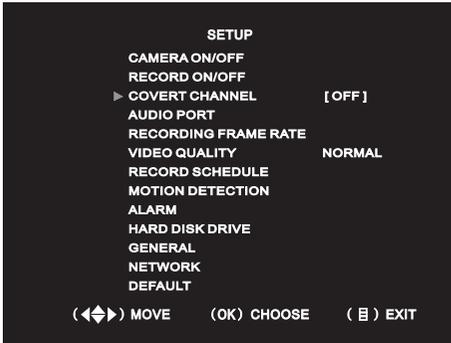


Press     to move the red ► to select the channel, then press  to set the camera connected to this channel to be ON or OFF.

NO CAM means there is no camera being connected with the corresponding channel of the monitor.

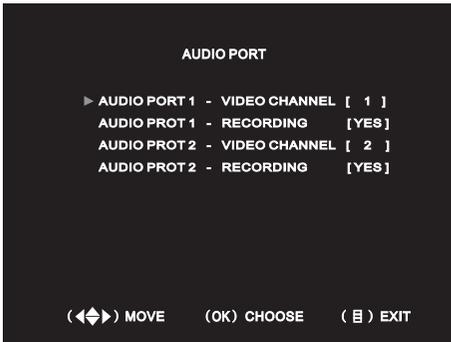
COVERT FUNCTION

You can choose one channel to be covert. This covert channel will not be shown on the screen, but it can be recorded.



AUDIO PORT

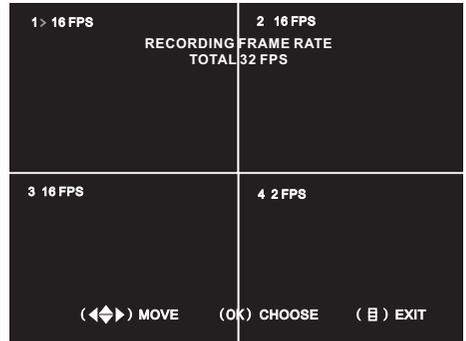
Two channels of audio input are available. Audio acquisition devices can be connected to any two video channels. Users can enable or disable recording of audio separately by setting the RECORDING.



Note: Microphone of the monitor is an audio acquisition device for audio port 1.

CAMERA ON/OFF

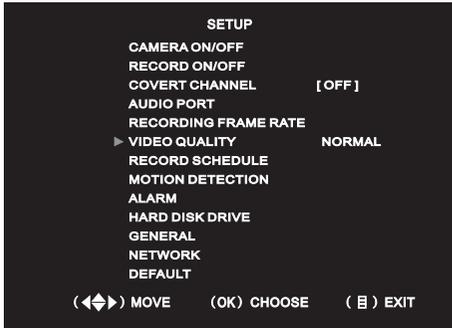
Frame rate of each channel can be set separately to 1,2,3,4,5,6,12,16,25 FPS. Total frame rate of four channels is 50 FPS for PAL TV system and 60FPS for NTSC TV system. For example, if you set 16FPS for channel 1, channel 2 and channel 3 for a monitor in PAL TV system, you can choose 1FPS or 2FPS for channel 4 and keep the selected recording frame rate of other channels same, however, if you want to set the frame rate of channel 4 to a option more than 2FPS, the frame rate of other channels will be reduced automatically.



Press ▲ ▼ ◀ ▶ to move the red ▶ to the channel to be set, then press **OK** to set the recording frame rate of this channel to a proper value.

VIDEO QUALITY

There are three options (HIGH, NORMAL and LOW) for video quality of recording. The better recording quality you choose, the more disk space it takes.

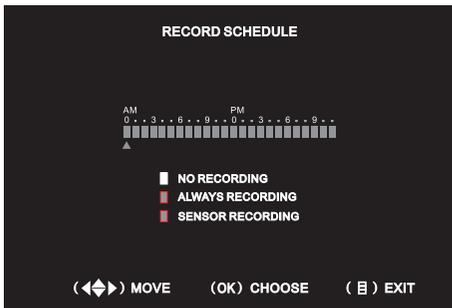


Press **OK** button to select a preferred video quality of recording.

RECORDING SCHEDULE

Users can schedule the recording hour by hour for the whole day. The three options of recording are as following,

- > NO RECORDING: Video from the CCTV cameras will not be recorded.
- > ALWAYS RECORDING: Video will always be recorded.
- > SENSOR RECORDING: Video will be recorded when motion is detected or an alarm event occurs.

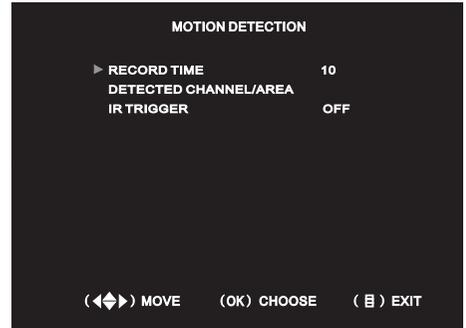


Press **▲**, **▼**, **◀**, **▶** to move the red **▲** to select the time frame, then press **OK** to set the recording mode.

MOTION DETECTION

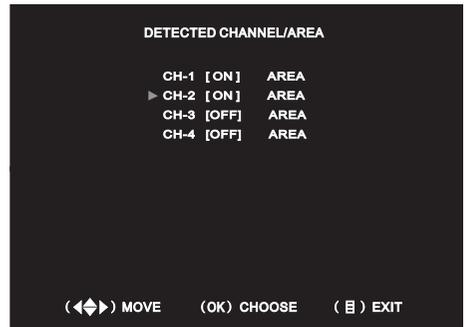
RECORD TIME

Set the recording time when a motion event occurs in the SENSOR RECORDING mode.

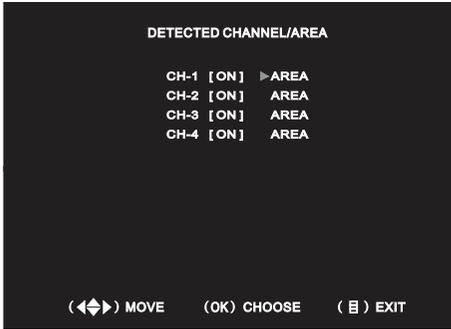


DETECTED CHANNEL / AREA

Users can turn ON or OFF the motion detection function of each channel. Press **▲** or **▼** to move the red **▶** to select the channel, then press **OK** to set the motion detection ON or OFF.



Press **▶** to move the red **▶** to the AREA, then press **▲** or **▼** to select a channel and press **OK** to trigger the motion setting.



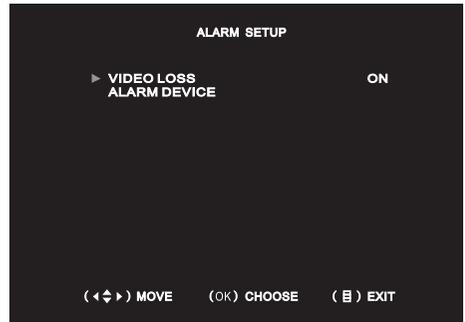
Four sensitivity levels can be selected and the sensitivity increases with the number rising. Press **▲** **▼** **◀** **▶** to select the grid. Then press **■** to change the sensitivity level.



IR TRIGGER

Only human motion can activate the recording in the SENSOR RECORDING mode if IR TRIGGER is set ON. Otherwise all motion will activate the recording.

ALARM SETUP



VIDEO LOSS

In the monitoring status, if the video cable connection is not good, the indoor unit will alarm with beep sound. Users can set it ON or OFF.

ALARM DEVICE



Alarm sensor setting: You can connect 2 alarm sensors with the monitor and set them to be bonded with 2 of the 4 CCTV channels. If an external alarm sensor is connected and it's triggered by an event, the monitor will alarm with beep sound and also activate the recording if it's in SENSOR RECORDING schedule. If you have connected with an external alarm output device, it will send an alarm. Users can also enable or disable the connected alarm sensors by setting them OPEN or CLOSE.

Alarm Time: It's for setting the time of alarm outputting when an alarm event occurs. OFF means no response to the alarm event and CONT means constantly response to the alarm event till someone stop it manually.

HARD DISK DRIVE



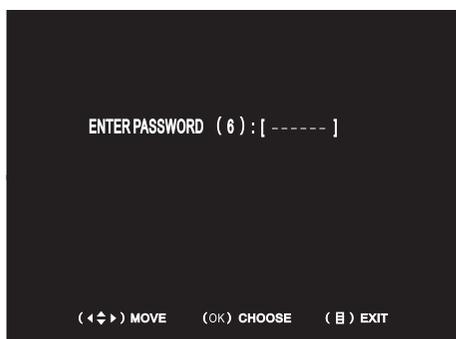
HDD information

- > ST9408221AS: Hard disk model.
- > HDD CAPACITY: The capacity of current hard disk.
- > HDD USED: The occupation of hard disk space, displayed in percentage.

OVERWRITE ENABLED

If it is set to YES, the system will automatically overwrites the earlier footage when the storage is full.

FORMAT HDD



Format the current hard disk. Password set in the GENERAL is required for formatting the hard disk and the initial password is 111111 (press 6 times).

GENERAL



To set system-related issues.

DATE/TIME: Set the system time.



Press or to move the red ▲ to the digit which you are going to change, then press to change the numbers.

RING: You can choose a preferred ring for visitors calling. There are total 9 options.

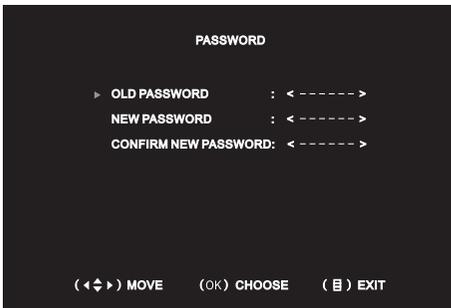
LANGUAGE: Chinese and English are available.

TFT-LCD DISPLAY: When it's set to ON, the screen will be always lighted, and if it's set to OFF, the screen will be turned off in normal, but it will be activated when there is a call. Users can press to open the screen display when it's turned off.

TFT-LCD SETTING: Users can adjust BRIGHTNESS, CONTRACT and SATURATION of the screen display to a proper value.



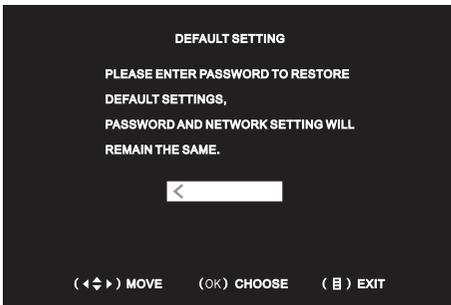
PASSWORD: Users can reset password. The length is fixed to 6 digits, stands for 1, stands for 2, stands for 3, stands for 4. The initial password is 111111 (press 6 times).



Note: You can press to delete when you enter a wrong digit.

ACCESS BY PASSWORD: The user must enter the password before any further operation. Default setting is OFF.

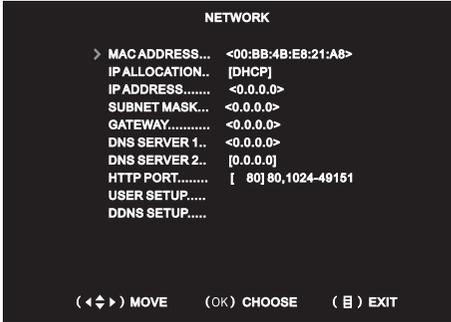
DEFAULT: The initial password is "111111". The password and network setting will not be changed after default setting.



Network

BASIC SETTING OF NETWORK

Connect the monitor to the network. Press  to enter the SETUP menu. Use  and  button to select NETWORK, then press  to enter the NETWORK menu. The screen will display as Fig. 33.



MAC ADDRESS: It is a unique identifier assigned to network interfaces for communications on the physical network segment.

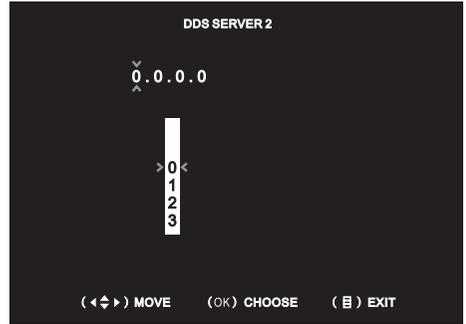
IP ALLOCATION: Supports both DHCP(dynamic) and STATIC IP.

DHCP IP SETTING

If DHCP is selected, IP ADDRESS, SUBNET MASK, GATEWAY and DNS SERVER 1 will be obtained from the DHCP server automatically. Users can set the DNS SERVER 2 optionally.

DNS SERVER 2

Press  or  to move  to the digit to be set, then press  or  to move to the corresponding digit and press  to choose it. Repeat this step until the DNS SERVER 2 is set correctly.



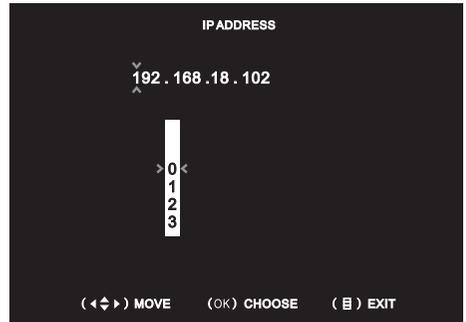
Note: To guarantee the stability of the IP address in the LAN. It's recommended to obtain the IP automatically by DHCP mode and write down your current IP address, then change IP allocation to static and enter IP information in the network setting.

STATIC IP SETTING

If STATIC IP is selected, users should set IP ADDRESS, SUBNET MASK, GATEWAY and DNS SERVER 1 manually. DNS SERVER 2 can be set optionally.

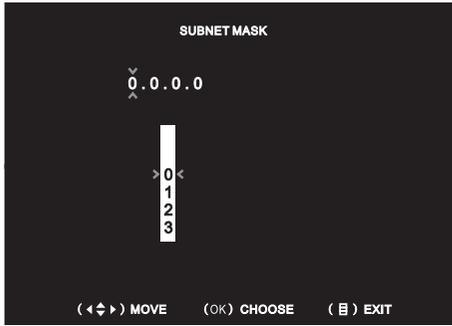
IP ADDRESS

Press  or  to move  to the digit to be set, then press  or  to move to the corresponding digit and press  to choose it. Repeat this step until the IP ADDRESS is set correctly.



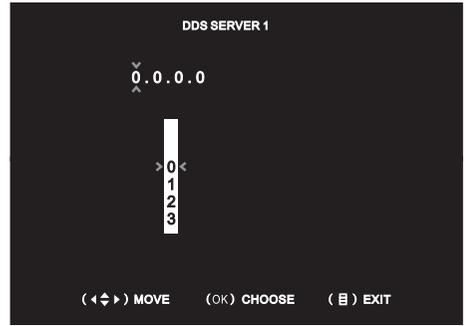
SUBNET MASK

Press **◀** or **▶** to move **✂** to the digit to be set, then press **▲** or **▼** to move **><** to the corresponding digit and press **OK** to choose it. Repeat this step until the SUBNET MASK is set correctly.



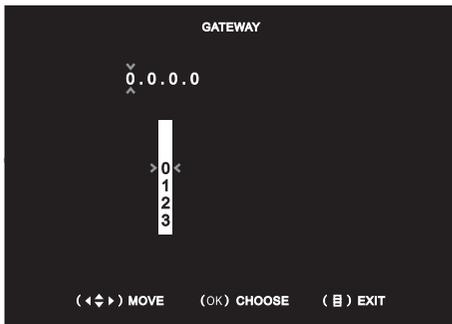
DNS SERVER 1

Press **◀** or **▶** to move **✂** to the digit to be set, then press **▲** or **▼** to move **><** to the corresponding digit and press **OK** to choose it. Repeat this step until the DNS SERVER 1 is set correctly.



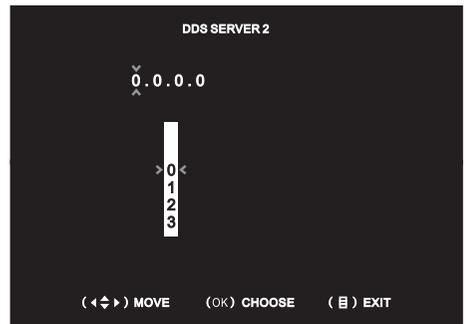
GATEWAY

Press **◀** or **▶** to move **✂** to the digit to be set, then press **▲** or **▼** to move **><** to the corresponding digit and press **OK** to choose it. Repeat this step until the GATEWAY is set correctly.



DNS SERVER 2

Press **◀** or **▶** to move **✂** to the digit to be set, then press **▲** or **▼** to move **><** to the corresponding digit and press **OK** to choose it. Repeat this step until the DNS SERVER 2 is set correctly.



Note: Please restart your monitor after network setup.

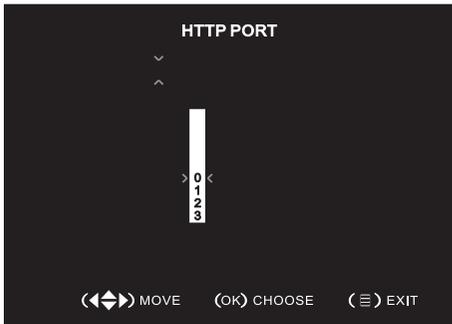
OPEN HTTP PORT

It's necessary to open the HTTP port of the monitor before the users can get remote access to it.

Assign a port number to be opened

Optional HTTP PORT is 80,1024 to 49151.

Press ▲ or ▼ to move > < to the digit to be set, then press ◀ or ▶ to move ✕ to the corresponding digit and press OK to choose it. Repeat this step until the HTTP PORT is set correctly. The default port is 80.



Open the HTTP PORT on a router

It might be done in different way to open an HTTP PORT on different types of routers. For a specific router, please contact the vendor to get the detail.

Remote monitoring and control

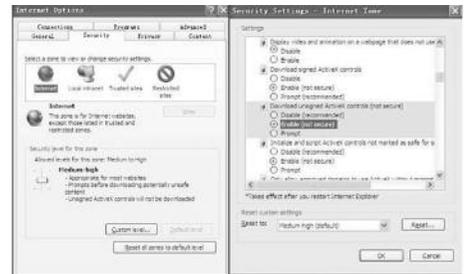
1. Open an IE browser, enter the monitor's IP address such as <http://192.168.18.101:6666> in the LAN or your WAN IP such as <http://113.110.152.49:6666> in the address bar. First visit will be prompted to install plugin, select "Yes" to install it. Installation will begin automatically after downloading. If the plugin does not download automatically, please click "Download" in "If the plugin can not download, click here". Double click the downloaded file to install it when the download is finished.

Note: The port number can be omitted if you use the default port 80, for example <http://192.168.18.101>.

2. After the plug-in installation, it will pop-up a "Remote Client" window as shown below. If not, please close and restart IE then input the network address correctly.



3. If the remote client does not show the monitored scene, please lower the security level of your browser. Open Internet Explorer browser, select "Tools" - "Internet Options" - "Security" - "Internet" - "Custom Level". In the popup window, open all the ActiveX plugins and controls.



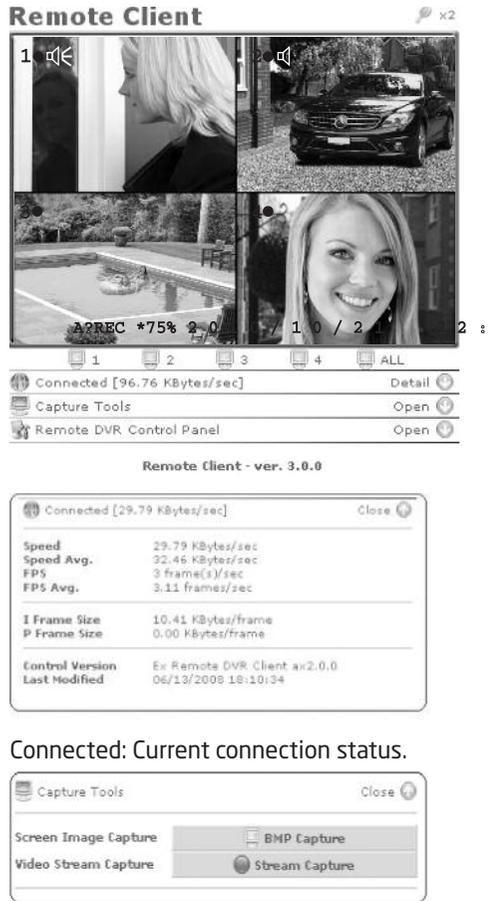
4. Click ×2 to enlarge the preview screen two times.

5. Click **ADMIN**, input user ID and password will appear at the bottom of the Remote Client window. Users can log in for further control. There are two types of users for remote access. One is administrator which has full operating rights and another is normal user which can view the monitored scene only.



Note: The user name and password are all in capital letters.

6. Tools and control of the Remote Client



Capture Tools: For capturing images and video.



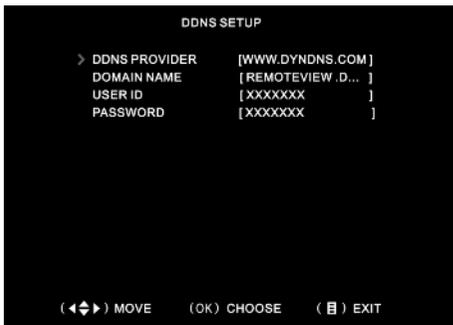
Remote DVR Control Panel:
Remote control to your monitor.

DDNS setup

To setup Dynamic Domain Name Service. The user is required to register and create a host name from the DDNS service provider [www.DYNDNS.COM](http://www.dyndns.com). Then enter user ID(user name), password and domain name obtained in the DDNS SETUP of the monitor.



1. Visit website [http:// www.dyndns.com](http://www.dyndns.com).
2. Sign up an account and create a host name such as 'remoteview. dyndns - free. Com'.
3. DDNS Setup in the monitor
Enter the host name, Username and Password you obtained from the DDNS service provider in the DOMAIN NAME, USER ID and PASSWORD of the DDNS SETUP menu as shown below.



4. Enter [http://remoteview. dyndns - free. com: 6666](http://remoteview.dyndns-free.com:6666) in your browser to get remote access to your monitor.



Video Playback

PLAYBACK ON MONITOR

Press the stop recording key , then press the play key , the system will automatically play the latest video clip.



Press the menu  key to enter the VIDEO SEARCH menu. Users can search video by event or time.

Search video by EVENT

Press  or  to select the search type EVENT, then press  to choose it. The display will change as shown below.



Users can press  or  to select from different events, and press  to play. In the event list, "T" stands for video clip recorded in always recording mode. "S" stands for video clip recorded in sensor recording mode and "C" stands for video clip recorded when a visitor call. When a  appears on an event, it presents that this event is accompanied by power failure.

Search video by TIME

Press  or  to select the search type TIME, then press  to choose it. The display will change as per Figure below. Users can input the time which he wants to check the video and press  to play.



Playback with PC

Take out the hard disk from your monitor and connect it with a computer. The format of recorded footage is ".MCG". It requires a special software to play it. Insert the CD provided with the package to the CD driver of the computer and open the software . Click  to open the recorded footage. Then click  to play the video.



Operation instruction

	MCG file dump
	Always Top Window
	50% Screen
	100% Screen
	150% Screen
	Close
	Open another MCG file
	Jump back 60 Sec
	Jump back 10 Sec
	Switching storage device
	Preferences - Change the application's default setting
	Audio Output Setting / Volume control
Move the window	Drag the window by its part below title bar to move it
	Reverse Playback
	Pause
	Forward Playback
	Jump forward 10 Sec
	Jump forward 60 Sec
	Play frame by frame backward
	Play frame by frame forward
	Record
	Capture [BMP]

Technical Specification

SYSTEM

Control system	LINUX
System resources	Triplex , supports simultaneous recording, video playback and network operations
Operation interface	User-friendly menu interface
User interface	Panel touch button and remote control
Video protocol	MPEG4
Audio protocol	ADPCM2

VIDEO

Video input	4 x camera plus 2 x video door entry
Video output	One way
Preview resolution	720×576@25fps (each channel)
Video recording	720×288@50fps (total resources)
Image division	Single or quad screen display
Recording	Scheduled or motion detection recording
On screen display	Channel and time information

AUDIO

Audio input	Two-way
Audio output	One way
VDE audio	Full duplex audio

HARD DISK

Hard disk	500Gb built-in one SATA interface, 2.5 inch hard MAX 500Gb
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VIDEO RECORDING AND PLAYBACK

Video recording mode	Video recording by manual, schedule, motion detection, sensor and visitor call
Multi-channel playback	Four channel quad or single channel

VIDEO DOOR PHONE FUNCTIONS

Calling	Two channel
Video recording	Visitor calling and video recording
Unlocking	Electric lock release function

INTERFACE

Networking interface	One RJ45 10M/100M network interface
Camera interface	Four 6-core mini din video (Max 80M)
VDE interface	Two 4-core mini din video (Max 80M)
Alarm interface	One 5-core
AV output interface	One AV 3.5

POWER SUPPLY

Video call point	Four way camera powered by integral central power supply
Outdoor station	Two way outdoor station powered by integral central power supply

SPECIFICATIONS

Power supply	DC +12V 4.5A
Screen	8" TFT-LCD
Resolution	800x600
Temperature Range	-10°C - +70°C
Dimensions	250 × 210 × 35mm
Installation methods	Desktop or wall mounting options

CAMERA

Sensor	1/3" LG CCD
Effective Pixel	500 (H) × 582 (V)
Resolution Ratio	720x576
Frame	PAL: 1-25 fps
Electronic shutter speed	1/60 - 1/100,000 S (NTSC)
Horizontal resolution	420TVL
Lens	3.6MM
IR viewing distance	10m
Power supply	DC 12V
Operation Current	220mA
Operation Temperature	Indoor/outdoor, -10°C - 60°C
Weatherproofing	IP55 rated

Technical Support 01527 515145

Elite Security Products
Unit 7, Target Park, Shawbank Rd
Lakeside, Redditch B98 8YN



Telephone: 01527 515150
Technical Support: 01527 515145
email: info@espuk.com

www.espuk.com