

HD VIDEO RECORDER SERIES

User Manual

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Please read instructions thoroughly before operation and retain it for future reference.

Online manual download: www.surveillance-download.com/user/h0401.swf

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We are pleased to provide our modifications to the Linux Kernel, as well as a few new commands, and some tools to get you into the code. The codes are provided on the FTP site, and please download them from the following site or you can refer to your distributor:

http://download.dvrtw.com.tw/GPL/076D_Series/arm-linux-2.6.tar.gz

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1. HARDWARE OVERVIEW

1.1 Front Panel

Note: The functions on the front panel and rear panel may vary, depending on the mode you have.

1) LED indicators

| | |
|---|--|
| Alarm or  | An alarm event occurs. |
| Internet or  | The device is connected to Internet. |
| e-SATA | An external disk array is connected. |
|  * | This device is power-supplied. |
|  * | This device is connected to LAN. |
| Record* | Recording is on. |
| HDD* | Up to two hard disks are installed in the device and connected well. |

* For Selected models only

2) USB port ()

Insert a compatible USB flash drive for video backup.

Note: For the compatible list of USB flash drives, please refer to "APPENDIX 1 COMPATIBLE USB FLASH DRIVE LIST" at page 34.

3) Mouse port ()

Insert a mouse for function operation.

1.2 Rear Panel

1) eSATA

This port is used to connect a storage device supporting eSATA interface; for instance, an external hard disk or a disk array.

Note: Please purchase a disk array supporting Linux system to ensure your device works properly.

Note: If the disk array is not connected or detected well, check the mode of your disk array, or do a reset default on your disk array and try again.

2) HDMI

This port is used to connect the monitor, which supports HDMI interface.

Note: Direct connection to the monitor, which supports VGA or composite interface, is not supported. Please prepare a converter in advance.

3) WAN (or INTERNET)

This port is used to connect your device to Internet.

4) DC IN

Connect the device to power with the regulated adapter.

5) (Power switch)

Switch to "–" to turn on the power, and "O" to turn off the power.

6) AUDIO OUT (for selected models only)

Connect to a speaker.

7) Video Input (w/PoN) (for selected models only)

They are used to connect IP cameras locally. This device supports PoN (power-over-network), which could provide power to all connected cameras. No power adapters are needed for cameras.

8) Video Input (w/PoE) (for selected models only)

They are used to connect IP cameras locally. This device supports PoE (power-over-ethernet), which could provide power to all connected cameras. No power adapters are needed for cameras.

9) EXTERNAL I/O (for selected models only)

Insert the supplied external I/O block, and users are able to connect external devices.

10) USB3.0 (for selected models only)

This port could be used when you want to copy large video data from the recorder. The data transfer will be faster.

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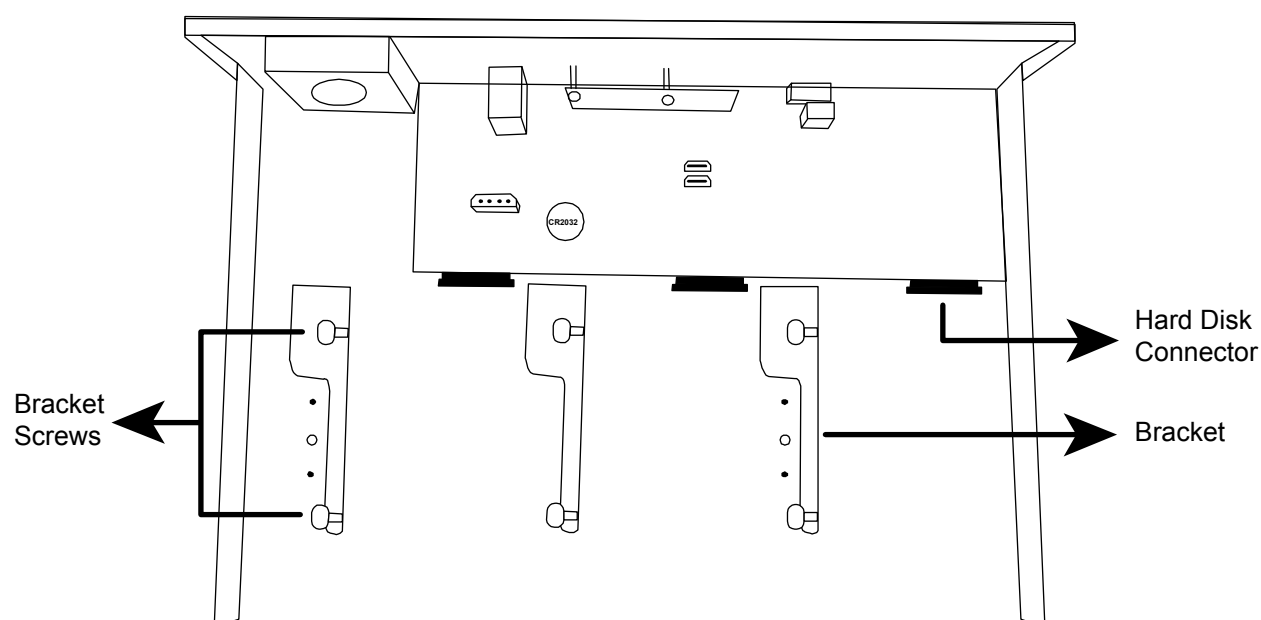
2. CONNECTION

2.1 Hard Disk Installation

A hard disk is necessary for the recorder to save video footage, and firmware upgrade might be failed if there's no hard disk installed in this recorder.

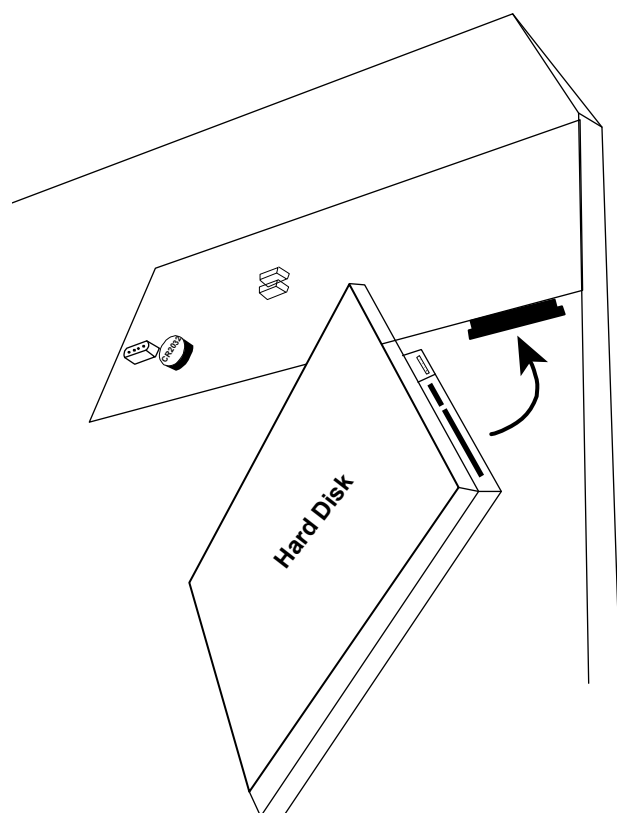
Note: Here takes a 16CH model as an example of how to connect a hard disk to your device.

Step1: Remove the top cover, and find the hard disk connector and bracket in the device.

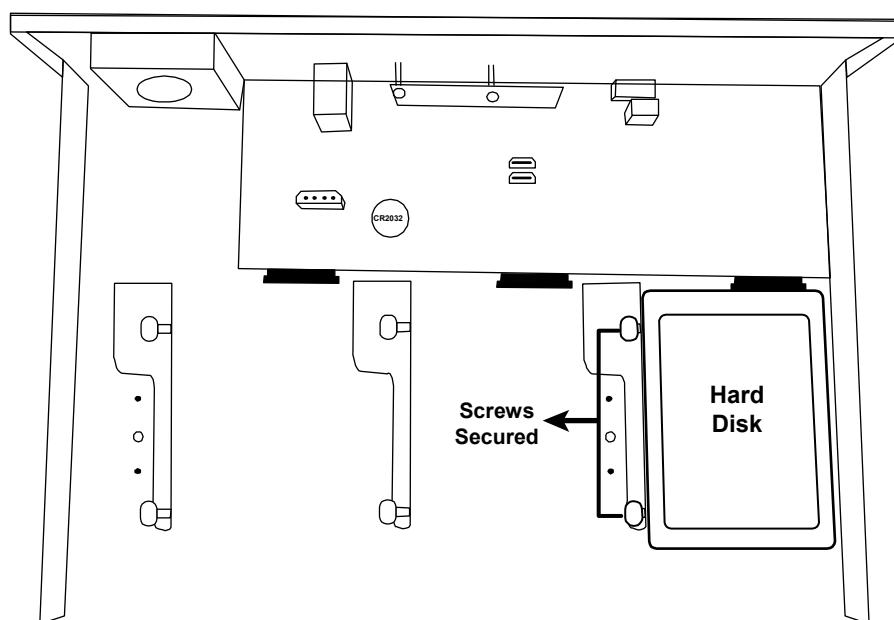


Step2: Get a compatible hard disk. With the PCB side facing down, insert the hard disk to one of the hard disk connector.

Note: It's not recommended to use a green hard disk with this device to make sure it works properly.



Step3: Fasten the hard disk to the bracket by securing the screws on the bracket.



Note: For the 16CH model, you may purchase a bracket accessory separately to install two more hard disks in this device.

Step4: Replace the top cover and fasten the screws you loosened in Step1.

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2.2 Camera IP Configurations by LAN

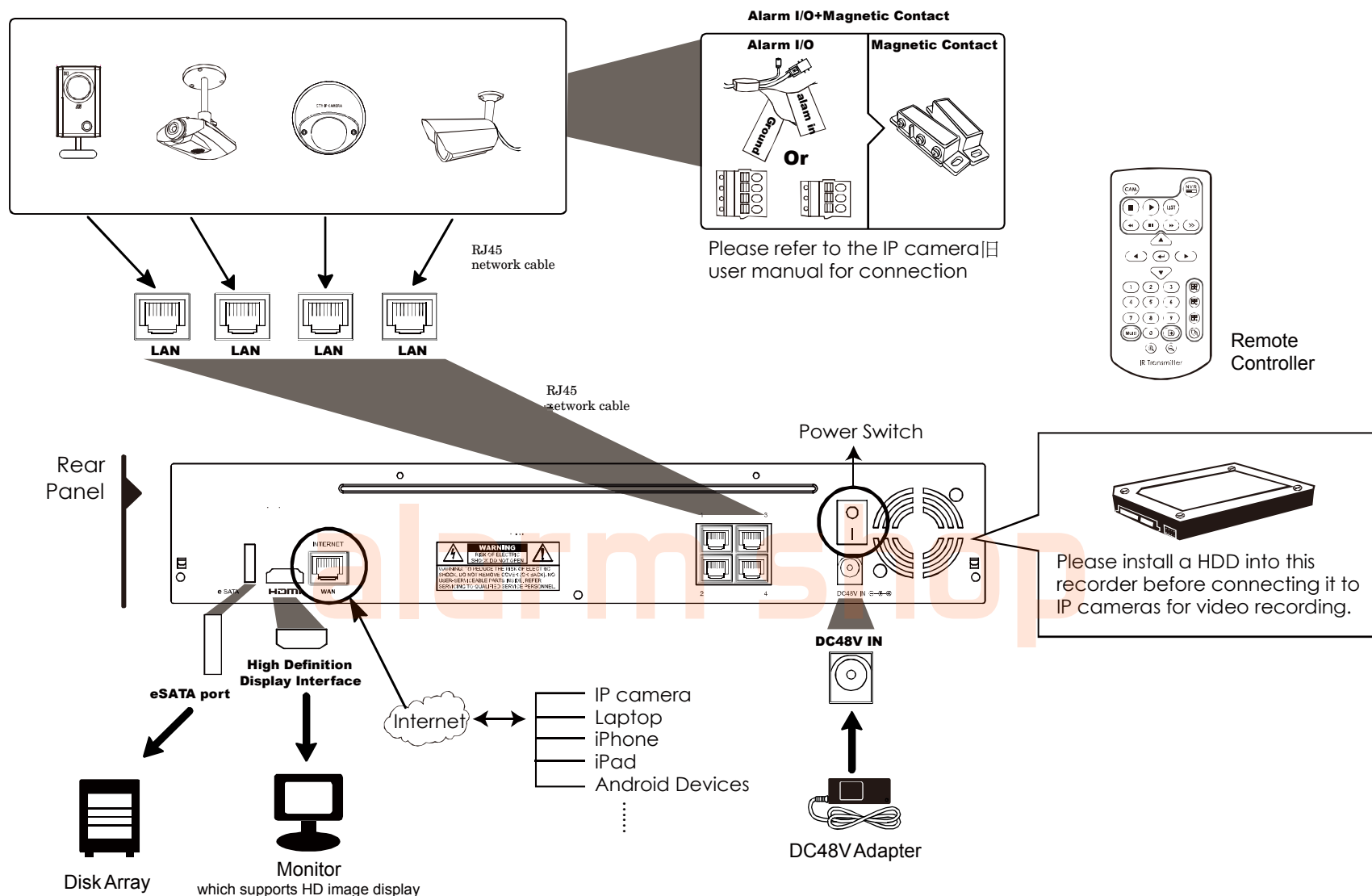
2.2.1 AUTO Mode

Auto mode is to simplify the complicated network settings within three minutes. The connection mode of the LAN port is “AUTO” by default. This mode is suitable when the LAN port of the device is connected to a hub.

Note: SETTING Path:  (ADVANCED CONFIG) → NETWORK → LAN → MODE.

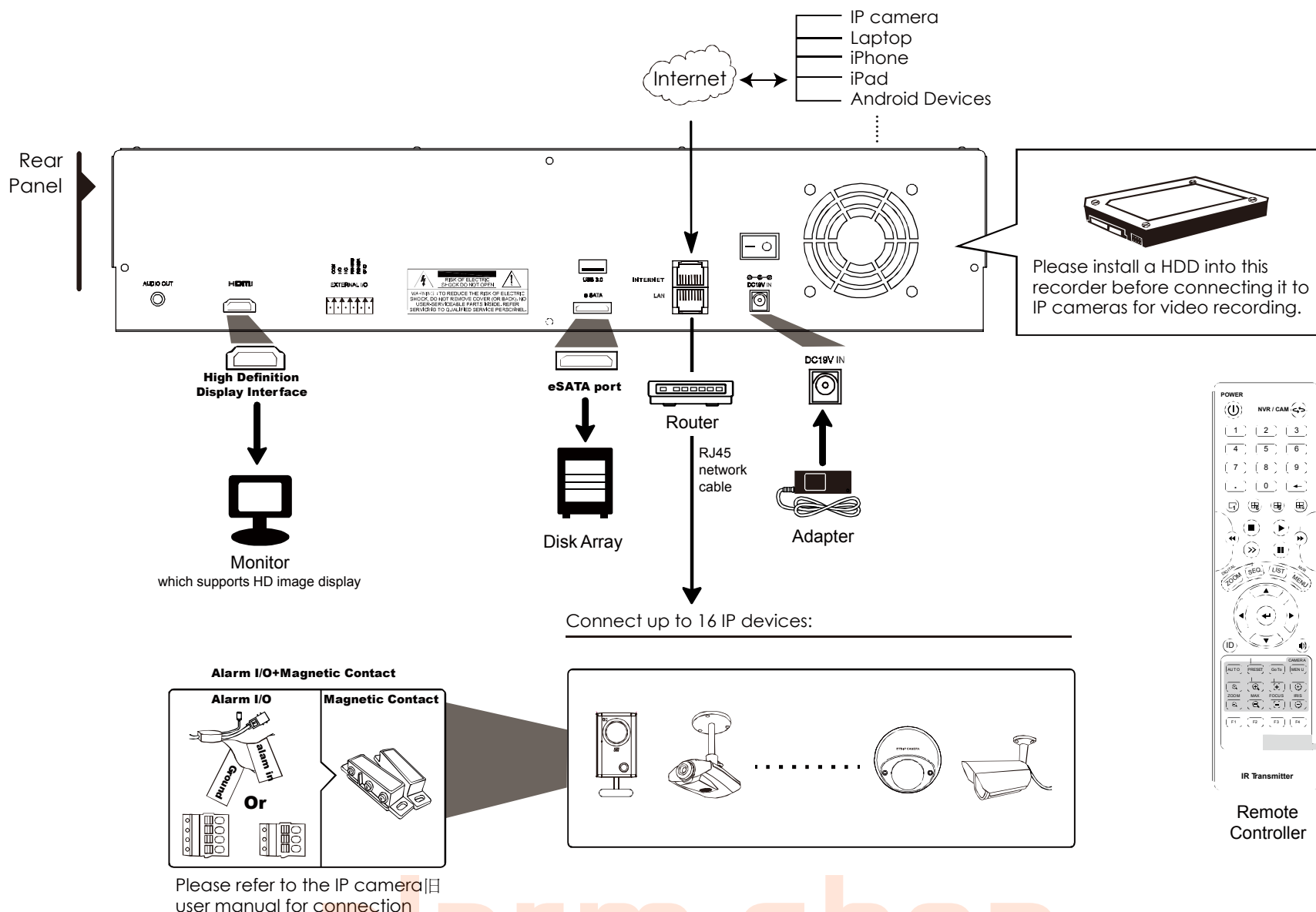
Type 1

Connect up to 4 IP devices:



Note: For access this recorder remotely with your mobile device or laptop, you need to connect this recorder to Internet. For details, please get the setup manual from the supplied CD or from www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf.

Type 2



Note: For access this recorder remotely with your mobile device or laptop, you need to connect this recorder to Internet. For details, please get the setup manual from the supplied CD or from www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf.

The recorder will **automatically** configure the IP address of a camera connected by LAN if:

- The connected IP camera is our brand's IP camera.
- Reset the IP camera to default value (the default IP configuration method of the camera is "DHCP").
- The camera is powered on before the recorder is powered on.

If the recorder **doesn't** configure the IP address of your camera automatically as described above, your IP camera might **NOT** be:

- Our brand's IP camera.
- Set to "DHCP" as its default IP configuration method.

To solve this, use our brand's IP camera, and reconfigure its IP address to 10.1.1.xx (xx ranges from 11 ~ 253), in the same network segment as the recorder.

- a) Move your mouse to the left to call the quick bar, and select "🔍". You'll see the list of every connected IP camera with its connection status to this recorder and MAC address.
- b) Select the IP address which is not used, and select "SETUP".

| IP SEARCH | | | |
|-----------|------|-------------------|------------------|
| IP | PORT | MAC | STATUS |
| 10.1.1.12 | 88 | 00:0e:53:e5:9a:f1 | CONNECTED TO CH1 |
| 10.1.1.13 | 88 | 00:0e:53:a6:91:18 | CONNECTED TO CH2 |
| 10.1.2.14 | 88 | 00:0e:53:a5:9f:a2 | UNUSED |
| 10.1.1.15 | 88 | 00:0e:53:e1:4e:k5 | CONNECTED TO CH3 |
| 10.1.1.16 | 88 | 00:0e:53:s5:3e:h6 | CONNECTED TO CH4 |
| 10.1.1.17 | 88 | 00:0e:53:e6:4b:26 | CONNECTED TO CH5 |

| | | | |
|---|---------|-------|------|
| ↶ | CONNECT | SETUP | EXIT |
|---|---------|-------|------|

- c) Select "DHCP" in "NETWORK TYPE".
- d) Click "APPLY" and "EXIT" to save your changes.

| SETUP | |
|--------------|------------|
| NETWORK TYPE | DHCP |
| IP | 10.1.1.14 |
| PORT | 88 |
| USER NAME | admin |
| PASSWORD | ***** |
| NETMASK | 255.0.0.0 |
| GATEWAY | 10.1.1.10 |
| PRIMARY DNS | 168.95.1.1 |

| | |
|-------|------|
| APPLY | EXIT |
|-------|------|

- e) The recorder will then detect the IP camera and display images soon.

2.2.2 Static / DHCP Mode

Note: SETTING Path:  (ADVANCED CONFIG) → NETWORK → LAN → MODE.

When the LAN port of the recorder is connected to a router (not a hub), you can:

- Choose “Static” when you know the network segment of your router.
For example, the IP address of your router of *192.168.0.1*, and the network segment of your router will be *192.168.0.xx* (xx is ranged from 2 ~ 254).
You can assign the IP address of the connected IP camera(s) by yourself.
- Choose “DHCP” when your router supports the DHCP function, and you do not know the network segment of your router.
The IP address of the connected IP camera(s) will be assigned by your router.

2.3 Manual Connection Setup

Note: SETTING Path:  (ADVANCED CONFIG) → CONNECTION.

To manually assign the address of your camera connected locally, click “URI” to modify.

| ADVANCED CONFIG | | | |
|-------------------|---------|--------------------------|--------|
| CONNECTION | CHANNEL | URI | CONFIG |
| CAMERA | CH1 | ONVIF://10.1.1.22:8080 | SETUP |
| DETECTION | CH2 | ONVIF://10.1.1.14:88 | SETUP |
| ALERT | CH3 | PANASONIC://10.1.1.30:88 | SETUP |
| NETWORK | CH4 | VIVOTEK://10.1.1.12:88 | SETUP |
| DISPLAY | | | |
| RECORD | | | |
| EXIT | | | |

Note: To configure this recorder to access other IP camera connected remotely for live viewing or video backup, you need to connect this recorder to Internet first. For details, please get the setup manual from the supplied CD or from www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf.

3. USER INTERFACE

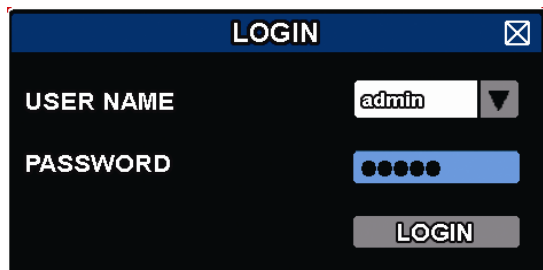
3.1 Local Access

Connect your USB mouse to one of the USB ports on the front panel, and check if there's a mouse icon (🖱️) on the screen, indicating the USB mouse is detected properly.

Move your mouse to enter the password with the password keypad. The default user name and password are both "admin". The status will be changed from 🔒 (key lock) to 🔓 (unlock).

Note: You may configure four different user levels to have different access privileges in "SYSTEM" → "ACCOUNT". For details, please refer to "4.3 User Level Creation" at page 12.

Password Input



3.2 Local

3.2.1 Device Status

Note: The functions shown may vary based on the model or the access user level you use.

| | | | |
|--|--|--|-------------------------|
| | Key lock | | Key unlock |
| | Channel lock | | Channel unlock |
| | USB flash drive / device connected | | No USB device connected |
| | Timer record on | | Timer record off |
| | Overwrite on | | Overwrite off |
| | Sequence mode on | | Sequence mode off |
| | PTZ mode on | | PTZ mode off |
| | Backup event queued and USB flash drive needed | | USB flash drive full |
| | CPU loading | | |

Network Status:

| | | | |
|--|-----------------------------|--|-----------------------------|
| | (WAN) Internet connected | | (WAN) Internet disconnected |
| | (WAN) Local connection | | |
| | (LAN) Auto mode –Mbit/s | | (LAN) Auto mode – Gbit/s |
| | (LAN) DHCP / Static IP mode | | (LAN) Camera disconnected |







3.2.2 Channel Status

Note: The functions shown may vary based on the model or the access user level you use.

| | | | | | | | |
|--|----------------------|--|----------------------|--|-------------------|--|--------------------|
| | Auto search on | | Auto search off | | Original size | | Fit to screen |
| | Live audio on | | Audio off | | Audio playback on | | Audio playback off |
| | Recording | | PTZ control | | Alarm event | | Motion event |
| | Live information | | Playback information | | Digital zoom | | Channel Playback |
| | Quick camera control | | | | | | |






3.2.3 Quick Operation

Move to the arrow mark to extend the quick menu bar and show the five functions as follows:

| | |
|---|--|
|  | Click to show the channel switch panel and select the channel you want. |
|  | Click to display the playback control panel, and click  to play the latest recorded video clip, or click  to enter the search list. |
|  | Click to open the IP search window and check the current connection status of each channel. |
|  | Click to show the power off panel to either halt or reboot the system. |










3.2.4 Main Menu

Right-click anywhere on the screen to show the main menu as follows, and right-click again to exit.

| | | |
|---|-------------------|---|
|  | QUICK START | Click to set the status display, image settings, and date & time. |
|  | SYSTEM | Click to set the system configurations. |
|  | EVENT INFORMATION | Click to enter the event search menu. |
|  | ADVANCED CONFIG | Click to set CONNECTION, CAMERA, DETECTION, ALERT, NETWORK, DISPLAY, RECORD, and NOTIFY*. |
|  | SCHEDULE SETTING | Click to set record timer and event timer. |





* For selected models only

3.2.5 Playback Panel

| | | |
|---|----------------------|--|
|  | Fast Forward | Increase the speed for fast forward. |
|  | Fast Rewind | Increase the speed for fast rewind. |
|  | Play / Pause | Click to play the latest recorded video clip immediately, and click again to pause. In the pause mode, click  once to get one frame forward, and click  to get one frame rewind. |
|  | Stop | Click to stop the video playback. |
|  | Slow Playback | Click once to get 1/4X speed playback, and click twice to get 1/8X speed playback. |
|  | Previous / Next Hour | Click to jump to the next / previous time interval in an hour, for example, 11:00 ~ 12:00 or 14:00 ~ 15:00, and start playing the earliest event video clip recorded during this whole hour. |
|  | Quick Search | Click to enter the quick search menu for specific record data search. |

4. FREQUENTLY-USED FUNCTIONS

4.1 Key Lock / Unlock

To lock or unlock local operation, click  (unlock) or  (lock) on the device status bar to change the status to  (lock) or  (unlock).


To unlock local operation, you'll be prompted to enter the user name and password to access.

Note: The default user name and password are both "admin", which is the highest user level

Note: Different user level has different access privilege for certain functions. For details, please refer to "4.3 User Level Creation" at page 12.

4.2 IP Device Search

Note: This function is available only for "SUPERVISOR". To know more details, please refer to "4.3 User Level Creation" at page 12.

Click  (IP Search) to start searching IP camera(s) connected in the same network segment as the recorder (i.e. 10.1.1.xx by default).

You'll see the list of every connected IP camera with its connection status to this recorder and MAC address.

| IP SEARCH | | | | |
|-----------|------|-------------------|----------|------------------|
| IP | PORT | MAC | PROTOCOL | STATUS |
| 10.1.1.12 | 88 | 00:0e:53:e5:9a:f1 | AVTECH | CONNECTED TO CH1 |
| 10.1.1.13 | 88 | 00:0e:53:a6:91:18 | AVTECH | CONNECTED TO CH2 |
| 10.1.1.14 | 88 | 00:0e:53:a5:9f:a2 | AVTECH | UNUSED |
| 10.1.1.15 | 88 | 00:0e:53:e1:4e:k5 | ONVIF | CONNECTED TO CH3 |
| 10.1.1.16 | 88 | 00:0e:53:s5:3e:h6 | ONVIF | CONNECTED TO CH4 |
| 10.1.1.17 | 88 | 00:0e:53:e6:4b:26 | ONVIF | CONNECTED TO CH5 |
| 10.1.1.18 | 88 | 00:0e:53:g2:3b:e7 | AVTECH | CONNECTED TO CH6 |

To fix the camera IP address, or allow the recorder to assign an IP address to your IP camera, select "SETUP", and select "STATIC IP" or "DHCP" for "NETWORK TYPE".

Click "APPLY" and "EXIT" to save your changes.

| SETUP | |
|--------------|------------|
| NETWORK TYPE | DHCP |
| IP | 10.1.1.14 |
| PORT | 80 |
| USER NAME | admin |
| PASSWORD | ***** |
| NETMASK | 255.0.0.0 |
| GATEWAY | 10.1.1.10 |
| PRIMARY DNS | 168.95.1.1 |

To connect to another IP camera, select the unused IP camera from the IP search list, and select "CONNECT". Select the channel you want to display the camera images, and click "SAVE" to start connection.

| CONNECT | |
|---|-----------|
| IP | 10.1.1.14 |
| PORT | 88 |
| CHANNEL | CH5 |
| USER NAME | admin |
| PASSWORD | ***** |
| <input type="button" value="SAVE"/> <input type="button" value="CANCEL"/> | |



















4.3 User Level Creation

















Note: This function is available only for "SUPERVISOR".

To create different user account for different access privilege, right-click to show the main menu, select "SYSTEM" (SYSTEM), and select "ACCOUNT" to enter "USER LIST".

| SYSTEM | |
|-----------------|---|
| ACCOUNT | USER LIST |
| TOOLS | USER NAME LEVEL |
| SYSTEM INFO | admin SUPERVISOR |
| BACKUP SCHEDULE | power POWER USER |
| | normal NORMAL |
| | guest GUEST |
| EXIT | <input type="button" value="ADD"/> <input type="button" value="EDIT"/> <input type="button" value="DEL"/> |


Different user level has different access privilege for certain functions as described below:






| Function | User Level | | | |
|---|------------|-------|--------|-------|
| | SUPERVISOR | POWER | NORMAL | GUEST |
| ■ Screen control | | | | |
| Quick channel switch by mouse-click | ✓ | ✓ | ✓ | |
| ■ Recorder status | | | | |
|  /  Key lock / unlock | ✓ | ✓ | ✓ | ✓ |
|  /  Channel switch lock / unlock | ✓ | | | |
| ■ Channel status | | | | |
|  /  Auto search on / off | ✓ | | | |
|  /  Live audio on / off | ✓ | | | |
|  /  Playback audio on / off | ✓ | | | |
|  /  Original size / Fit to screen | ✓ | | | |
|  /  Live / Playback information | ✓ | | | |
|  Digital zoom | ✓ | ✓ | | |
|  Single channel playback | ✓ | ✓ | | |
|  DPTZ Control | ✓ | ✓ | | |
|  Quick camera control | ✓ | | | |

| | Function | User Level | | | |
|---|----------------------|------------|-------|--------|-------|
| | | SUPERVISOR | POWER | NORMAL | GUEST |
| ■ Quick operation | | | | | |
|  | Channel Switch | ✓ | ✓ | ✓ | ✓ |
|  | Playback | ✓ | ✓ | | |
|  | IP Search | ✓ | | | |
|  | Power | ✓ | | | |
| ■ Main menu | | | | | |
|  | Quick Start | ✓ | | | |
|  | System | ✓ | | | |
|  | Event Information | ✓ | | | |
|  | Advanced Config. | ✓ | | | |
|  | Schedule Setting | ✓ | | | |
| ■ Playback control | | | | | |
|  | Fast Forward | ✓ | ✓ | | |
|  | Fast Rewind | ✓ | ✓ | | |
|  | Play / Pause | ✓ | ✓ | | |
|  | Stop | ✓ | ✓ | | |
|  | Slow Playback | ✓ | ✓ | | |
|  | Previous / Next Hour | ✓ | ✓ | | |
|  | Quick Search | ✓ | ✓ | | |

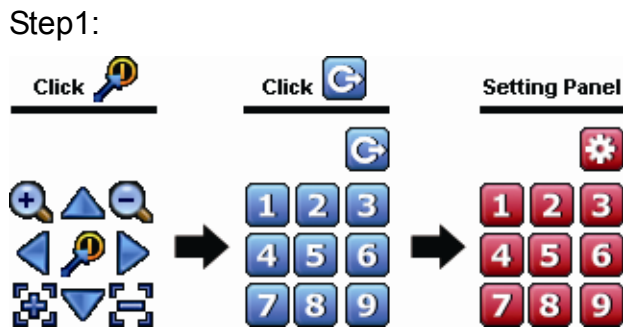
4.4 PTZ Control (1CH mode)

Note: This function is available only for "SUPERVISOR" and "POWER USER". To know more details, please refer to "4.3 User Level Creation" at page 12.

Click  on the channel status bar to display the panel as follows:

| | | | |
|---|---|--------------------------|--|
|  |  | Up / Down / Left / Right | Click to move your selection up / down / left / right, or change settings. |
| |  | Digital zoom in / out | Click to zoom in / out the camera image digitally. |
| |  | Focus near / far | Click to adjust the focus of the image. |
| |  | Preset point | Click to display the preset point panel for preset point viewing or setting. For details, please refer to the section below. |

How to set a preset point:

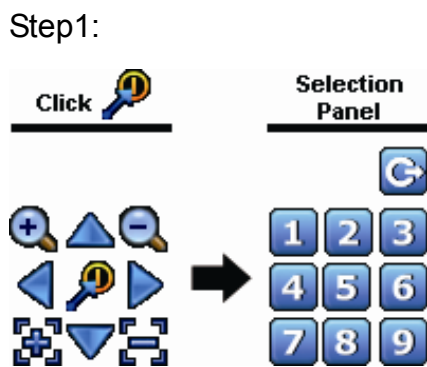


Step2: Click or to the proper ratio you need, and click / / / to move to the point you want to configure as a preset point.

Step3: Click the numbering you want to configure for this point, and wait till you see (command sending) appearing and disappearing on the device status bar.

Step4: Repeat from Step1 again to set other points if needed, or click to return to the preset point selection panel

How to go to a preset point:



Step2: Select the numbering within which saves the camera view you want to see, and wait till you see (command sending) appearing and disappearing on the device status bar.

4.5 Event Search

Note: This function is not available for "NORMAL" and "GUEST". For details, please refer to "4.3 User Level Creation" at page 12.

In the playback control bar, click to enter the search list.

| EVENT INFORMATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|-----|-----|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|
| QUICK SEARCH | HARD DISK ALL HDD ▾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RECORD | CHANNEL 2 SELECTED ▾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MOTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALARM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FULL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STATISTIC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <div style="display: flex; justify-content: space-around;"> <div>2009</div> <div>NOV</div> </div> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>SUN</th> <th>MON</th> <th>TUE</th> <th>WED</th> <th>THU</th> <th>FRI</th> <th>SAT</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> </tr> <tr> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> </tr> <tr> <td>22</td> <td style="background-color: #cccccc;">23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> </tr> <tr> <td>29</td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 00 06 12 18 24 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> EXIT 15 : 20 SUBMIT </div> | SUN | MON | TUE | WED | THU | FRI | SAT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | | |
| SUN | MON | TUE | WED | THU | FRI | SAT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

- To quickly search the time within which might include the recorded data you want to see:
 - Select the channel(s) and month you want to search. You'll see the date(s) with recorded data is highlighted.
 - Select the date you want to search. You'll see the time with recorded data is highlighted from the timeline bar.
 - Click the time to start playback.
- To search the recorded data by event, select RECORD / MOTION / ALARM / TIME, or select FULL to show all the event logs. Select the log you want to start playback.

Note: During video playback, you might click to check the recorded data details, or click to play the recorded audio (if any) on the channel you want.

4.6 Video Backup

Note: This function is available for "SUPERVISOR". For details, please refer to "4.3 User Level Creation" at page 12.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to "APPENDIX 1 COMPATIBLE USB FLASH DRIVE LIST" at page 34.

Note: For video backup, please use USB flash drive or back your data up over the Internet. It's not recommended to connect the HDD to your PC directly.

To copy recorded data for video backup, click  (SYSTEM), and select "BACKUP SCHEDULE".

| SYSTEM | | | | |
|------------------------|-----|-----|------------|--|
| ACCOUNT | | | | |
| TOOLS | | | | |
| SYSTEM INFO | | | | |
| BACKUP SCHEDULE | | | | |
| | | | | |
| EXIT | ADD | DEL | SELECT ALL | |

| BACKUP | |
|-------------|--------------|
| BACKUP TYPE | DATA ▼ |
| START DATE | 2013/JAN/04 |
| START TIME | 15:36:32 |
| END DATE | 2013/JAN/04 |
| END TIME | 15:40:32 |
| CHANNEL | Select All ▼ |
| HARD DISK | All HDD ▼ |
| BACKUP | SUBMIT |

Step1: Select the type of information you want to backup. "DATA" is video footages, and "LOG" is record logs.

Step2: Select the time within which includes what you want to backup.

Step3: Select the channel(s) and hard disk within which includes what you want to backup.

Step4: In "BACKUP", select "SUBMIT" to start backup to your USB flash drive, and wait till the backup successful message appears.

4.7 Video Playback on PC

The backup file is the unique video format for security reasons, and you can only use our own player to play.

To play video backup on your PC:

Step1: Insert the USB flash drive with recorded data into your PC.

Note: The supported PC operating systems are Windows 7, Windows Vista & Windows XP.

Step2: Find the program "PLAYER.EXE" in the USB flash drive, and double-click it to install.

Note: "PLAYER.EXE" can also be downloaded from www.surveillance-download.com/user/h0401.swf.

Step3: Run the program, *VideoPlayer_NVR*, and browse to where you save the recorded data.

Step4: Select the file you want to start video playback.

4.7.1 Convert the file format to AVI

To convert the video file format to AVI, click “AVI” from the playback panel to start file conversion.

Note: The recorded audio (if any) will be removed when the file format is converted to AVI.

Note: If the backup video includes data for multiple channels, click to a specific channel for this function to work properly.



alarm shop


5. MAIN MENU

Note: This menu is available only for "SUPERVISOR". To know more details, please refer to "4.3 User Level Creation" at page 12.

Note: The menu shown here takes a 4CH model as an example. The actual display may vary.

5.1 QUICK START

5.1.1 GENERAL

| QUICK START | | |
|----------------|-------------------|---|
| GENERAL | CHANNEL TITLE | ON |
| TIME SETUP | EVENT STATUS | ON |
| SIMULATION | DATE DISPLAY | ON |
| | MOUSE SENSITIVITY | <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0</div> <div style="margin-right: 5px;">5</div> <div style="margin-right: 5px;">10</div>  </div> |
| | RECORD CONFIG | SETUP |
| EXIT | | |





- 1) CHANNEL TITLE
Select to display the channel title or not (ON / OFF).
- 2) EVENT STATUS
Select to display the event icons or not (ON / OFF).

Note: For details about each event icon, please refer to "3.2 Local" at page 9.

- 3) DATE DISPLAY
Select to display the date or not (ON / OFF).
- 4) MOUSE SENSITIVITY
Select the mouse sensitivity by 10 levels.
- 5) RECORD CONFIG
Click "SETUP" to enter the setting page individually for manual record, event record and timer record.

Note: The options selectable for "IMAGE SIZE" and "I.P.S." depends on the camera you're intended to connect.

■ MANUAL & TIMER

| QUICK START | | | | | | |
|-------------|-----------|-------|-------------|---|--------|--|
| MANUAL | EVENT | TIMER | | | | |
| CHANNEL | PROFILE | TYPE | IMAGE SIZE | QUALITY | I.P.S. | |
| CH1 | PROFILE-1 | H264 | 720 X 480 | <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0</div> <div style="margin-right: 5px;">5</div> <div style="margin-right: 5px;">10</div>  </div> | 30 | |
| CH2 | PROFILE-1 | H264 | 1280 x 1024 | <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0</div> <div style="margin-right: 5px;">5</div> <div style="margin-right: 5px;">10</div>  </div> | 30 | |
| CH3 | PROFILE-1 | H264 | 1280 x 1024 | <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0</div> <div style="margin-right: 5px;">5</div> <div style="margin-right: 5px;">10</div>  </div> | 30 | |
| CH4 | PROFILE-1 | H264 | 1280 x 1024 | <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">0</div> <div style="margin-right: 5px;">5</div> <div style="margin-right: 5px;">10</div>  </div> | 30 | |
| EXIT | | | | | | |

■ EVENT

| QUICK START | | | | |
|-------------|-------------|-----------------------|--------|----------------|
| MANUAL | EVENT | TIMER | | |
| CHANNEL | IMAGE SIZE | QUALITY | I.P.S. | EVENT |
| CH1 | 720 X 480 | 0 5 10 ■■■■■▲■■■■■ | 30 | MOTION |
| CH2 | 1280 x 1024 | 0 5 10 ■■■■■▲■■■■■ | 30 | MOTION / ALARM |
| CH3 | 1280 x 1024 | 0 5 10 ■■■■■▲■■■■■ | 30 | MOTION / ALARM |
| CH4 | 1280 x 1024 | 0 5 10 ■■■■■▲■■■■■ | 30 | MOTION |
| | | | | EXIT |

5.1.2 TIME SETUP

| QUICK START | | |
|-------------------|-------------|---------------------|
| GENERAL | DATE | 2009 / NOV / 17 |
| TIME SETUP | TIME | 15 : 35 : 53 |
| SIMULATION | NTP SERVER | Tock.stdtime.gov.tw |
| | SYNC PERIOD | DAILY |
| | GMT | (UTC+08:00)TAIPEI |
| EXIT | | |

1) DATE

Set the current date. The default display format is YEAR – MONTH – DATE (Y-M-D).

Note: To change the date display format, please refer to "5.2.1 DATE INFO".

2) TIME

Set the current time in HOUR : MIN : SEC.

3) NTP SERVER

Click to change the default NTP server to another server they're familiar with, or keep the default NTP server.

4) SYNC PERIOD

Select to synchronize the device time everyday (DAILY), or turn this function off (OFF).

5) GMT

Select your time zone.

5.1.3 SIMULATION

“SIMULATION” is where you can see CPU loading and performance when certain functions are enabled and how the number of online users affects the performance of the device.

| QUICK START | | |
|-------------------|-------------------------|-------|
| GENERAL | LIVE PARAMETER SETUP | SETUP |
| TIME SETUP | MANUAL RECORD SETUP | SETUP |
| SIMULATION | EVENT RECORD SETUP | SETUP |
| | TIMER RECORD SETUP | SETUP |
| | RECORD TIMER | OFF |
| | EVENT TIMER | OFF |
| | MAX ONLINE USER NUMBER | 5 |
| | HDD SIZE (GB) | 1000 |
| | MANUAL 444G: 0DAY10HOUR | |
| | EVENT 444G: 0DAY10HOUR | |
| | TIMER 444G: 0DAY10HOUR | |
| EXIT | | |

5.2 SYSTEM

5.2.1 ACCOUNT

This function is used to create a new user account, or modify or delete an existing account for different access privilege.

Note: For details about available local operations of each user level, please refer to “4.3 User Level Creation” at page 12.

| ADVANCED CONFIG | | | |
|-----------------|-----------|------------|-----|
| ACCOUNT | USER LIST | | |
| TOOLS | USER NAME | LEVEL | |
| SYSTEM INFO | admin | SUPERVISOR | |
| BACKUP SCHEDULE | power | POWER USER | |
| | normal | NORMAL | |
| | guest | GUEST | |
| EXIT | | | |
| | ADD | EDIT | DEL |

5.2.2 TOOLS

| SYSTEM | | |
|-----------------|-----------------|---------|
| ACCOUNT | LANGUAGE | ENGLISH |
| TOOLS | UPGRADE | SUBMIT |
| SYSTEM INFO | NETWORK UPGRADE | SUBMIT |
| BACKUP SCHEDULE | BACKUP CONFIG | SUBMIT |
| | RESTORE CONFIG | SUBMIT |
| EXIT | | |

1) LANGUAGE

Select the language of the OSD.

2) UPGRADE

Save the upgrade files obtained from your installer or distributor in a compatible USB flash drive, and insert it into the USB port at the front panel. Then, click “SUBMIT” to start upgrading.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to “APPENDIX 1 COMPATIBLE USB FLASH DRIVE LIST” at page 34.

Note: After upgrading firmware, it’s recommended to clear all hard disk data for the system to work more stably. Before clearing all hard disk data, please remember to make video backup.

Note: Before remote firmware update, please install a hard disk into your recorder first to make sure the firmware update works properly.

3) NETWORK UPGRADE

Click “SUBMIT” for perform system upgrade via Internet.

Note: This function requires Internet access. Please make sure your recorder is connected to Internet before using this function.

4) BACKUP CONFIG / RESTORE CONFIG

To keep the current configurations after upgrade, insert a compatible USB flash drive into the USB port, and select “SUBMIT” in “BACKUP CONFIG” to copy the current configurations to a file “System.bin” and save to your USB flash drive.

To restore the configurations, insert the USB flash drive including “System.bin” to the USB port, and select “SUBMIT” in “RESTORE CONFIG”.

5.2.3 SYSTEM INFO

| SYSTEM | | |
|--------------------|-------------------|---------------------|
| ACCOUNT | AUTO KEY LOCK | NEVER |
| TOOLS | CLEAR HDD | HDD-0 |
| SYSTEM INFO | RESET DEFAULT | SUBMIT |
| BACKUP SCHEDULE | REMOTE CONTROL ID | 000 |
| | DEVICE TITLE | HOME |
| EXIT | VERSION | 1001-1000-1001-1001 |

1) AUTO KEY LOCK

Set the time-out in second after which the key lock function is activated (NEVER / 30 / 60 / 120).

2) CLEAR HDD

Select the hard disk you want to clear, and click “YES” to confirm or “NO” to cancel.

It's recommended to clear all data in the hard disk when:

- It's the first time to use this recorder to ensure the recorded data are not mixed with other data previously saved in the same hard disk.
- The firmware is upgraded for the system to work more stably. Before clearing all data, please remember to make video backup.
- The date and time are changed accidentally when the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search.

3) RESET DEFAULT

Click “SUBMIT” to reset all settings as default, and select “YES” to confirm or “NO” to cancel. The recorder will reboot after reset.

5.2.4 BACKUP SCHEDULE

This function is used to copy recorded video data or logs from the recorder to a USB flash drive. You might arrange several backup events in the schedule if you want, and the backup starts when a compatible USB flash drive is inserted to this recorder.

Note: Before using the USB flash drive, please use your PC to format the USB flash drive to FAT32 format first. For the list of compatible USB flash drives, please refer to “APPENDIX 1 COMPATIBLE USB FLASH DRIVE LIST” at page 34.

Note: The backup video can be played on the PC. For details, please refer to “4.7 Video Playback on PC” at page 15.

Note: Data backup could be done via a USB flash drive or over the Internet. It's not recommended to connect the hard disk to your PC directly. The data might get lost and can't be repaired even when the hard disk is replaced back to the recorder.

| SYSTEM | | | | |
|------------------------|--|------|------------|---------|
| ACCOUNT | TIME | SIZE | TYPE | STATUS |
| TOOLS | <input type="checkbox"/> 2013/03/26 14:08:54 ~ 2013/03/26 14:11:54 | 90MB | DATA | WAITING |
| SYSTEM INFO | | | | |
| BACKUP SCHEDULE | | | | |
| EXIT | ADD | DEL | SELECT ALL | |

To add a backup event

Step1: Select "ADD" to show the backup page.

| BACKUP | |
|-------------|--------------|
| BACKUP TYPE | DATA ▼ |
| START DATE | 2013/JAN/04 |
| START TIME | 15:36:32 |
| END DATE | 2013/JAN/04 |
| END TIME | 15:40:32 |
| CHANNEL | Select All ▼ |
| HARD DISK | All HDD ▼ |
| BACKUP | SUBMIT |

Step2: In the backup page, select "DATA" if you need to copy video footages; select "LOG" is you want to copy record logs.

Step3: Select the time, channel(s) and hard disk in which save the data you need.

Step4: Select "SUBMIT" to put this backup event into the schedule.

To remove a backup event

Select the event you want to delete in the backup schedule, and click "DEL".

5.3 EVENT INFORMATION

5.3.1 QUICK SEARCH

| EVENT INFORMATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|-----|-----|-----|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|
| QUICK SEARCH | HARD DISK ALL HDD ▼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVENT SEARCH | CHANNEL 2 SELECTED ▼ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HDD INFO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EVENT LOG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| SUN | MON | TUE | WED | THU | FRI | SAT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Step1: Select the hard disk and channel including the video data you want to search.

Step2: Select the month including the video data you want to search from the calendar, and the date with recorded data will be highlighted.

Step3: Select the date you want from the calendar, and the time with recorded data will be highlighted from the time scale bar.

Step4: To immediately play the video clip, click "SUBMIT".

To choose the start time for video playback, move your mouse cursor to the highlighted time, and click to confirm the time when the time display below is the time you want. The video playback is activated right away when you confirm the time.

Note: For video playback operations, please refer to "3.2.5 Playback Panel" at page 10.

5.3.2 EVENT SEARCH

| EVENT INFORMATION | |
|---------------------|---------------------|
| QUICK SEARCH | DATE 2009/NOV/19 |
| EVENT SEARCH | TIME 16:13:16 |
| HDD INFO | CHANNEL 1 ▼ |
| EVENT LOG | HARD DISK ALL HDD ▼ |
| | EVENT TYPE MOTION ▼ |
| | SEARCH START |
| EXIT | |

- 1) DATE / TIME
Select the specific time period that you want to search.
- 2) CHANNEL
Select the video channel you want to search.
- 3) HARD DISK
Select the hard disk including the video data you want to search, or select "ALL HDD".
- 4) EVENT TYPE
Select the event type you want to search: MOTION / ALARM / HUMAN DETECTION.
- 5) SEARCH
Click "START" to start search and play the video data immediately.

5.3.3 HDD INFO

You can check the information of the connected hard disk(s) in this device.

| EVENT INFORMATION | |
|-------------------|--|
| QUICK SEARCH | NUMBER MODEL °C SIZE FREE FORMAT TIME SERIAL NUMBER F.W. |
| EVENT SEARCH | HDD-0 ST31000526SV 46 890.562GB 864.832GB 2011/DEC/13 18:18:53 9V0DN5WS ST31000526SV |
| HDD INFO | |
| EVENT LOG | |
| EXIT | |

5.3.4 EVENT LOG

You can check all the event information (event type, time and channel), or clear all log records.

| EVENT INFORMATION | |
|-------------------|------------------------------------|
| QUICK SEARCH | SYSTEM BACKUP |
| EVENT SEARCH | EVENT TIME COMMENT |
| HDD INFO | KEY UNLOCK 2011/NOV/19 15:49:07 |
| EVENT LOG | VIDEO LOSS 2011/NOV/19 15:32:05 04 |
| | POWER ON 2011/NOV/19 15:32:02 |
| | PREV NEXT CLEAN |
| EXIT | |

5.4 ADVANCED CONFIG

5.4.1 CONNECTION

To manually assign the address of your camera connected locally, click “URI” to modify.

| ADVANCED CONFIG | | | |
|-----------------|---------|---|--------|
| CONNECTION | CHANNEL | URI | CONFIG |
| CAMERA | CH1 | AVTECH://ip_office.ddns.eagleeyes.tw:80 | SETUP |
| DETECTION | CH2 | ONVIF://10.1.1.14:88 | SETUP |
| ALERT | CH3 | AVTECH://10.1.1.30:88 | SETUP |
| NETWORK | CH4 | AVTECH://10.1.1.12:88 | SETUP |
| DISPLAY | | | |
| RECORD | | | |
| EXIT | | | |

Then, click “SETUP” to enter the access information of the camera:

| CONFIG-CH1 | |
|-------------------|-----------------------------|
| USER NAME | admin |
| PASSWORD | ***** |
| CACHE TIME (MSEC) | 0 5 20 ----- ----- |
| MODEL | AVTECH |
| GET TYPE | IP CAMERA |
| PROFILE | PROFILE-3 |
| TYPE | H264 |
| IMAGE SIZE | 720 X 480 |
| QUALITY | 0 5 10 ----- ----- |
| I.P.S. | 30 |
| AUDIO | ON |
| EXIT | |

Step1: Enter the user name and password to access the IP camera.

Step2: Click “GET TYPE” to detect and make sure the access information you’re intended to connect is correct.

Step3: Select the image size, image quality, and I.P.S.

Note: The options selectable for “IMAGE SIZE” and “I.P.S.” depends on the camera you’re intended to connect.

Step4: (Optional) For the camera with audio recording, select “ON” or “OFF”.

5.4.2 CAMERA

| ADVANCED CONFIG | | | | |
|-----------------|---------------------|-----|-----|------|
| CONNECTION | CH1 | CH2 | CH3 | CH4 |
| CAMERA | BRIGHTNESS | | | 128 |
| DETECTION | CONTRAST | | | 128 |
| ALERT | SATURATION | | | 128 |
| NETWORK | HUE | | | 128 |
| DISPLAY | COV. | | | OFF |
| RECORD | REC | | | ON |
| NOTIFY | REC AUDIO | | | ON |
| | CHANNEL TITLE | | | EDIT |
| | PORT FORWARD | | | 81 |
| | ENABLE PORT FORWARD | | | ON |
| EXIT | | | | |

1) BRIGHTNESS / CONTRAST / SATURATION / HUE

Click the current value to manually adjust the brightness/contrast/saturation/hue of each channel here.

2) COV.

Select if you want to mask the selected channel under recording (ON / OFF). When this function is activated, the wording "COV." will be shown on the channel screen.

Note: To hide the wording "COV." when this function is on, go to "DISPLAY", and set "DISPLAY COVERT" to "OFF". For details, please refer to "5.4.6 DISPLAY" at page 29.

3) REC

Select if you want to enable recording for the selected channel (ON / OFF).

Note: When this function is disabled, no manual, event or timer recording will be activated even if any of these three record functions is set to "ON".

4) REC AUDIO

Select if you want to enable audio recording for the selected channel (ON / OFF).

Note: This function is available only when your connected device supports audio recording.

5) CHANNEL TITLE

Click "EDIT" to input the channel title (up to six characters). The default title is the channel number.

6) PORT FORWARD / ENABLE PORT FORWARD

These two functions are used when you only want to see a single channel of this recorder remotely.

a) Set the port number for the channel in "PORT FORWARD". The default value for CH1 is 81, and the default value for CH2 is 82... etc. If you want to change the port number to other value, the range is from 1 ~ 65535.

b) Select "ON" in "PORT FORWARD ENABLE".

The address of the channel will be "http://recorder_address:port_number". Enter the address in Internet Explorer, and see if you can access the device connected channel individually.

Note: The user name and password are still required to access the device connected to the channel. Make sure you know the user name and password to access the device. For details, please refer to its user manual.

5.4.3 DETECTION

| ADVANCED CONFIG | | | | |
|------------------|----------------|-----|-----|------|
| CONNECTION | CH1 | CH2 | CH3 | CH4 |
| CAMERA | ALARM | | | OFF |
| DETECTION | SENSITIVITY | | | 0 |
| ALERT | MOTION | | | ON |
| NETWORK | AREA | | | EDIT |
| DISPLAY | INTERNAL ALARM | | | ON |
| RECORD | | | | |
| NOTIFY | | | | |
| EXIT | | | | |

1) ALARM

Select N.C./ N.O depending on your installation need. The default alarm value is OFF.

2) SENSITIVITY

Select the detection sensitivity of the selected channel, the lower the value, the higher the sensitivity.

3) MOTION

Select if you want to activate the motion detection function for the selected channel (ON/OFF).

4) AREA

Click "EDIT" to set the motion detection area.

There are 16 × 12 grids per camera for all channels. Pink blocks represent the area that is not being detected while the transparent blocks are the area under detection.

Note: To exit area setting and return to the detection page, right click your mouse.

5) INTERNAL ALARM *(For selected camera models only)*

This function appears only when the camera connected supports human detection.

Select "ON" to enable human detection, or "OFF" to disable it.

5.4.4 ALERT

| ADVANCED CONFIG | | | | |
|-----------------|-------------------------|----|---|-----|
| CONNECTION | EXT. ALERT | | | ON |
| CAMERA | INT. BUZZER | | | OFF |
| DETECTION | KEY BUZZER | | | ON |
| ALERT | VLOSS BUZZER | | | ON |
| NETWORK | MOTION BUZZER | | | ON |
| DISPLAY | ALARM BUZZER | | | ON |
| RECORD | HDD BUZZER | | | ON |
| NOTIFY | ALARM DURATION (SEC) | 5 | ▼ | |
| | HDD NEARLY FULL (GB) | 5 | ▼ | |
| | HDD OVERHEAT ALERT (°C) | 60 | ▼ | |
| EXIT | | | | |

1) EXT. ALERT

Select to enable or disable the sound when any external alarm is triggered (ON / OFF).

2) INT. BUZZER

Select to enable or disable the sound (ON / OFF) for all internal buzzers: KEY BUZZER, VLOSS BUZZER, MOTION BUZZER, ALARM BUZZER, and HDD BUZZER.

Note: When this item is set to "OFF", item 3) to item 7) will be disabled even though they are set to ON.

3) KEY BUZZER

Select to enable or disable the sound when pressing the buttons on the front panel (ON / OFF).

- 4) VLOSS BUZZER
Select to enable or disable the sound when video loss happened (ON / OFF).
- 5) MOTION BUZZER
Select to enable or disable the sound when any motion alarm is triggered (ON / OFF).
- 6) ALARM BUZZER
Select to enable or disable the sound when any internal alarm is triggered (ON / OFF).
- 7) HDD BUZZER
Select to enable or disable the sound (ON / OFF) when the HDD remaining capacity reaches to the value set in "HDD NEARLY FULL (GB)".
- 8) ALARM DURATION (SEC)
Select the duration time for alarm buzzer in second (5 / 10 / 20 / 40).
- 9) HDD NEARLY FULL (GB)
If HDD BUZZER is enabled, select the duration time for buzzer notifications when the hard disk available capacity is 5/10/15/20 GB left.
- 10) HDD OVERHEAT ALERT (°C)
Select the temperature alert for your hard disk to be aware of the possible overheat of your hard disk.

5.4.5 NETWORK

There are two RJ45 ports on the rear panel: WAN and LAN.

- **WAN** is used to connect this recorder to Internet for remote access from anywhere as long as Internet access is available.
- **LAN** is used to connect to IP cameras locally.
- **DDNS** is used when the Internet access is available.

Note: For more details about these three functions and network configurations, please get the setup manual from the supplied CD or from www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf.

| ADVANCED CONFIG | |
|-----------------|---|
| CONNECTION | WAN LAN E-MAIL DDNS NETWORK MONITOR |
| CAMERA | NETWORK TYPE DHCP ▼ |
| DETECTION | IP 192.168.1.112 |
| ALERT | GATEWAY 192.168.1.254 |
| NETWORK | NETMASK 255.255.255.0 |
| DISPLAY | PRIMARY DNS 168.95.1.1 |
| RECORD | SECONDARY DNS 139.175.55.244 |
| NOTIFY | PORT 88 |
| EXIT | |

E-MAIL

Configure your E-mail account here to send event notifications to the E-mail address(es) specified in "NOTIFY".

Note: To know the SMTP server and port number you should use, please check with your E-mail service provider.

| ADVANCED CONFIG | |
|-----------------|---|
| CONNECTION | WAN LAN E-MAIL DDNS NETWORK MONITOR |
| CAMERA | SMTP SERVER SMTP.GMAIL.COM |
| DETECTION | PORT 465 |
| ALERT | MAIL FROM MANAGER |
| NETWORK | SSL ENCRYPTION ON |
| DISPLAY | VERIFY PASSWORD ON |
| RECORD | USER NAME MANAGER |
| NOTIFY | PASSWORD ●●●●●● |
| EXIT | |

NETWORK MONITOR

Check the network activity of this recorder.

| ADVANCED CONFIG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|--|-------------|--|-------------|--|-----|--|---------|--|-------------|--|-----------|--|-----------------|--|-------------|--|-------------|--|------------|--|----------|--|---------|--|--|--|---------|--|--------|
| CONNECTION | WAN LAN E-MAIL DDNS NETWORK MONITOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CAMERA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DETECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALERT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NETWORK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISPLAY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RECORD | <table border="0"> <tr> <td></td> <td>RECEIVING</td> <td></td> <td>WAN</td> <td></td> <td>LAN</td> </tr> <tr> <td></td> <td>SENDING</td> <td></td> <td>289 Bytes/s</td> <td></td> <td>5.91 MB/s</td> </tr> <tr> <td></td> <td>TOTAL RECEIVING</td> <td></td> <td>285 Bytes/s</td> <td></td> <td>134.68 KB/s</td> </tr> <tr> <td></td> <td>TOTAL SENT</td> <td></td> <td>22.58 MB</td> <td></td> <td>2.55 MB</td> </tr> <tr> <td></td> <td></td> <td></td> <td>8.39 MB</td> <td></td> <td>2.4 MB</td> </tr> </table> | | RECEIVING | | WAN | | LAN | | SENDING | | 289 Bytes/s | | 5.91 MB/s | | TOTAL RECEIVING | | 285 Bytes/s | | 134.68 KB/s | | TOTAL SENT | | 22.58 MB | | 2.55 MB | | | | 8.39 MB | | 2.4 MB |
| | RECEIVING | | WAN | | LAN | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SENDING | | 289 Bytes/s | | 5.91 MB/s | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL RECEIVING | | 285 Bytes/s | | 134.68 KB/s | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TOTAL SENT | | 22.58 MB | | 2.55 MB | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 8.39 MB | | 2.4 MB | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTIFY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EXIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5.4.6 DISPLAY

| ADVANCED CONFIG | | | |
|-----------------|--|-----------------|---|
| CONNECTION | FULL SCREEN DURATION | 03 | ▼ |
| CAMERA | QUAD SCREEN DURATION <i>(For selected models only)</i> | 03 | ▼ |
| DETECTION | DISPLAY COVERT | ON | |
| ALERT | HDD DISPLAY MODE | REMAINGING SIZE | ▼ |
| NETWORK | BRIGHTNESS | 128 | |
| DISPLAY | CONTRAST | 128 | |
| RECORD | SATURATION | 128 | |
| NOTIFY | CH COVERT IN SUPERVISOR MODE | ON | |
| EXIT | | | |

- 1) FULL SCREEN DURATION
Select the full screen dwell duration time in second (03 / 05 / 10 / 15).
- 2) QUAD SCREEN DURATION *(For selected models only)*
Select the quad screen dwell duration time in second (03 / 05 / 10 / 15).
- 3) DISPLAY COVERT
Select "ON" or "OFF" to display or hide the wording "COV." when covert recording is activated in "CAMERA".
- 4) HDD DISPLAY MODE
Select "REMAINGING SIZE" to show the remaining HDD capacity for recording in GB, or "REMAINGING TIME" to show the remaining recording time.
- 5) BRIGHTNESS / CONTRAST / SATURATION
Click the current value to manually adjust the brightness/contrast/saturation/ of the screen.

5.4.7 RECORD

Note: Please DO NOT change the date or time of your recorder after the recording function is activated. Otherwise, the recorded data will be disordered and you will not be able to find the recorded file to backup by time search. If users change the date or time accidentally when the recording function is activated, it's recommended to clear all hard disk data, and start recording again.

| ADVANCED CONFIG | | |
|-----------------|------------------------|-------|
| CONNECTION | MANUAL RECORD | OFF |
| CAMERA | EVENT RECORD | ON |
| DETECTION | TIMER RECORD | OFF |
| ALERT | PRE-ALARM RECORD | ON |
| NETWORK | OVERWRITE | ON |
| DISPLAY | KEEP DATA LIMIT (DAYS) | OFF |
| RECORD | RECORD CONFIG | SETUP |
| NOTIFY | | |
| EXIT | | |

- 1) MANUAL RECORD
Set the manual recording function on / off.
- 2) EVENT RECORD
Set the event recording function on / off.
- 3) TIMER RECORD
Set the timer recording function on / off.

4) PRE-ALARM RECORD

Select to enable or disable the pre-alarm function (ON / OFF).

When pre-alarm and event recording functions are both activated, the recorder will record 8MB data before an alarm / motion event is triggered.

5) OVERWRITE

Select "ON" to overwrite previous recorded data in your HDD when the HDD is full. When this function is on and the HDD is full, the recorder will clear 8GB data from the oldest for continuous recording without notice.

6) KEEP DATA LIMITS (DAYS)

Assign the maximum recording days from 01 to 31 after which all the recorded data will be removed, or select "OFF" to disable this function.

7) RECORD CONFIG

Click "SETUP" to enter the setting page individually for manual record, event record and timer record.

For details, please refer to "5.1.1 GENERAL" at page 17.

5.4.8 NOTIFY

You can configure this recorder to send notifications for certain events to mobile devices with our mobile app, EagleEyes, installed, or to the specified E-mail address(es).

PUSH VIDEO (for selected models only)

Before using this function, make sure:

- The camera connected to this recorder is our ETS network camera series.
- You have iPhone®, iPad®, or Android™ mobile phone or tablet.
- You have subscribed the mobile network service from your mobile service provider.
- The mobile app, EagleEyes, is installed in your mobile device. For details, please refer to "APPENDIX 4 MOBILE SURVEILLANCE VIA EAGLEEYES" at page 37.
- You have configured EagleEyes to access this recorder, and Push Video is enabled. For details, please refer to "APPENDIX 5 SET PUSH VIDEO" at page 38.

You'll get an active event notification with video telling you the occurrence of alarm event(s).

| ADVANCED CONFIG | | | | |
|-----------------|------------|--------------|--------------|------------|
| CONNECTION | PUSH VIDEO | PUSH MESSAGE | MESSAGE MAIL | VIDEO MAIL |
| CAMERA | GUARD | | | ON |
| DETECTION | CH01 | ALARM N.C. | ▼ | CH1 alarm |
| ALERT | CH02 | ALARM N.O. | ▼ | CH2 |
| NETWORK | CH03 | ALARM OFF | ▼ | CH3 |
| DISPLAY | CH04 | ALARM OFF | ▼ | CH4 |
| RECORD | | | | |
| NOTIFY | | | | |
| EXIT | | | | |

Step1: Switch "GUARD" to "ON".

Step2: Select the channel number with our ETS network camera connected, and select the alarm type to "ALARM N.C.", "ALARM N.O.", or "INTERNAL ALARM" (shown only when the connected ETS camera has an alarm sensor built-in).

Step3: Customize the notification message you want to see after alarm type setting, or keep the default message, which shows only the channel numbering.

Step4: Enable "Push Video" in EagleEyes on your mobile device, and try to trigger an alarm event to see if you'll get Push Video.

PUSH MESSAGE (for selected models only)

Before using this function, make sure:

- You have iPhone®, iPad®, or Android™ mobile phone or tablet.
- You have subscribed the mobile network service from your mobile service provider.
- The mobile app, EagleEyes, is installed in your mobile device. For details, please refer to “APPENDIX 4 MOBILE SURVEILLANCE VIA EAGLEEYES” at page 37.
- You have configured EagleEyes to access this recorder, and Push Video is enabled. For details, please refer to “APPENDIX 5 SET PUSH VIDEO” at page 38.

You'll get a text message telling you the occurrence of selected system event(s).

| ADVANCED CONFIG | | | | | |
|---|------------|---|--------------|------------|--|
| CONNECTION CAMERA DETECTION ALERT NETWORK DISPLAY RECORD NOTIFY | PUSH VIDEO | PUSH MESSAGE | MESSAGE MAIL | VIDEO MAIL | |
| | ACTION | ON | | | |
| | EVENT | <input type="checkbox"/> ALL <input checked="" type="checkbox"/> VIDEO LOSS <input type="checkbox"/> HDD FULL <input type="checkbox"/> POWER ON <input checked="" type="checkbox"/> HDD (CLEAR / NO HDD / OVER TEMPERATURE) <input type="checkbox"/> NET LOGIN <input checked="" type="checkbox"/> KEY UNLOCK <input type="checkbox"/> NETWORK <input type="checkbox"/> UPS <input type="checkbox"/> SYSTEM ABNORMAL | | | |
| EXIT | | | | | |

Step1: Switch “ACTION” to “ON”.

Step2: Select the system event(s) you want to get notified via your mobile device.

Step3: Enable “Push Message” in EagleEyes on your mobile device, and try to trigger an alarm event to see if you'll get Push Message.

MESSAGE MAIL

Note: For E-mail notifications, make sure you have configured an E-mail account in “NETWORK” → “E-MAIL” to send the notifications.

Enable this function in “ACTION”, select the event type(s) you want to send notifications in “EVENT”, and add the E-mail address(es) to which you want to send notifications in “RECEIVER”.

You'll get an E-mail telling you the occurrence of your selected event(s).

| ADVANCED CONFIG | | | | | |
|---|------------|---|--------------|------------|--|
| CONNECTION CAMERA DETECTION ALERT NETWORK DISPLAY RECORD NOTIFY | PUSH VIDEO | PUSH MESSAGE | MESSAGE MAIL | VIDEO MAIL | |
| | ACTION | ON | | | |
| | EVENT | <input type="checkbox"/> ALL <input checked="" type="checkbox"/> VIDEO LOSS <input type="checkbox"/> HDD FULL <input type="checkbox"/> POWER ON <input checked="" type="checkbox"/> HDD (CLEAR / NO HDD / OVER TEMPERATURE) <input type="checkbox"/> NET LOGIN <input checked="" type="checkbox"/> KEY UNLOCK <input type="checkbox"/> NETWORK <input type="checkbox"/> UPS <input type="checkbox"/> SYSTEM ABNORMAL | | | |
| | RECEIVER | SETUP | | | |
| EXIT | | | | | |

VIDEO MAIL

Note: For E-mail notifications, make sure you have configured an E-mail account in "NETWORK" → "E-MAIL" to send the notifications.

Enable this function in "E-MAIL ALERT", and add the E-mail address(es) to which you want to send notifications in "RECEIVER".

You'll get an E-mail telling you the occurrence of motion events attached with a html file.

| ADVANCED CONFIG | | | | |
|-----------------|--------------|--------------|--------------|------------|
| CONNECTION | PUSH VIDEO | PUSH MESSAGE | MESSAGE MAIL | VIDEO MAIL |
| CAMERA | E-MAIL ALERT | | | ON |
| DETECTION | RECEIVER | | | SETUP |
| ALERT | | | | |
| NETWORK | | | | |
| DISPLAY | | | | |
| RECORD | | | | |
| NOTIFY | | | | |
| EXIT | | | | |

How to check video recording

Step1: Open the html file attached.

Note: Please accept to install ActiveX control on your computer.

Step2: Enter the user name and password to log into this recorder, and select the channel you want.


Step3: Click "Open" to download the motion recording to your computer and start playing.

User name and password used to log into this NVR

Click to download & play the recording

User Name : admin Password : ●●●● Channel : 1 Start Time : 2012/01/18 15:04:54 End Time : 2012/01/18 15:05:05

DATE TIME: 2012/01/18 15:04:56 Direction: FORWARD Speed: Normal DATA LOAD: 19% / PLAY LOAD: 96%



AVM357A

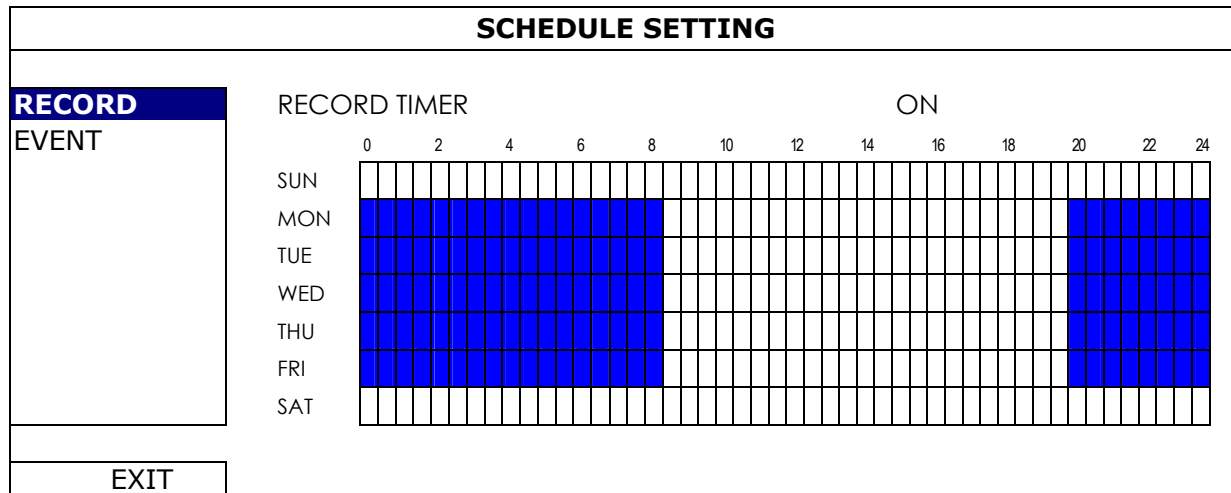
Deinterlace

Playback panel

5.5 SCHEDULE SETTING

5.5.1 RECORD

Select "ON" to enable record timer, and select the day and time for this function.

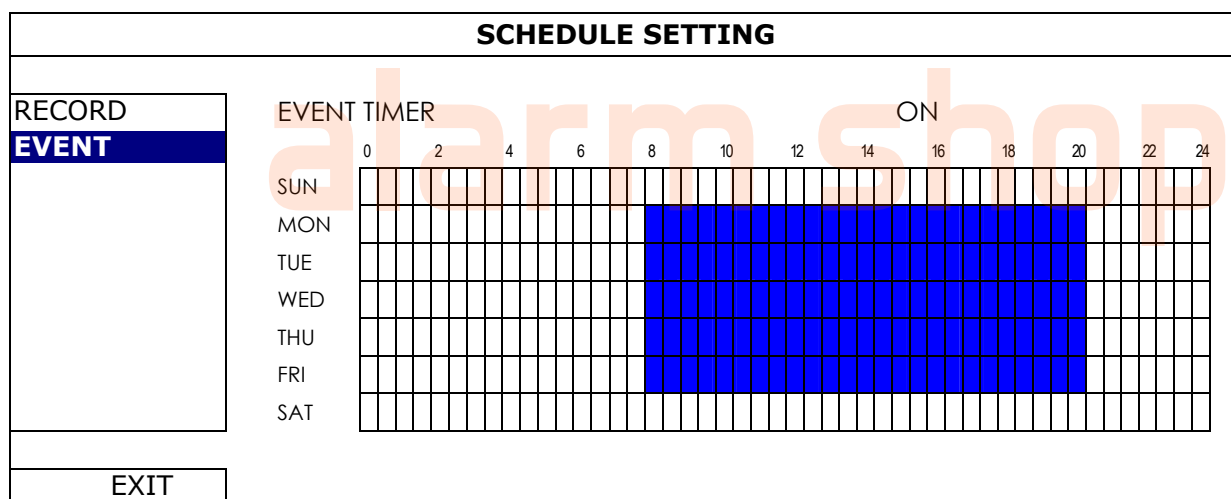


X axis: 0 ~ 24 hours. Each time bar is 30 minutes.

Y axis: Monday ~ Sunday.

5.5.2 EVENT


a) Select "ON" to enable event timer, and select the day and time for this function.



X axis: 0 ~ 24 hours. Each time bar is 30 minutes.

Y axis: Monday ~ Sunday.

APPENDIX 1 COMPATIBLE USB FLASH DRIVE LIST

Please upgrade the firmware of the recorder to the latest version to ensure the accuracy of the following table. If the USB flash drive is not supported by the recorder, you will see  on the screen.

Note: Please use your PC to format the USB flash drive as "FAT32".

Note: You can backup up to 2GB video data for one-time USB backup. To backup more data, please set the time & channel(s) you want, and start USB backup again.

| MANUFACTURER | MODEL | CAPACITY |
|--------------|----------------------|----------|
| Transcend | JFV35 | 4GB |
| | JFV30 | 8GB |
| Kingston | DataTraveler | 1GB |
| PQI | U172P | 4GB |
| Apacer | AH320 | 2GB |
| | AH320A | 8GB |
| | AH220 | 1GB |
| | AH320 | 4GB |
| A-data | RB-18 | 1GB |
| Sandisk | Cruzer Micro | 2GB |
| | Cruzer Micro | 4GB |
| | Cruzer4-pk | 2GB |
| Netac | U208 | 1GB |
| MSI | F200 | 4GB |
| SONY | Micro Vault Tiny 2GB | 2GB |
| | Micro Vault Tiny 4GB | 4GB |
| | Micro Vault Tiny | 1GB |

APPENDIX 2 COMPATIBLE HARD DISK LIST

Please upgrade the firmware of the device to the latest version to ensure the accuracy of the following table.

| MANUFACTURER | MODEL | CAPACITY | ROTATION |
|--------------|------------------|----------|----------|
| Seagate | ST250DN000 | 250GB | 7200 rpm |
| | ST3320613AS | 320GB | 7200 rpm |
| | ST33500320AS | 500GB | 7200 rpm |
| | ST3500410SV | 500GB | 7200 rpm |
| | ST3750330AS | 750GB | 7200 rpm |
| | ST31000525SV | 1000GB | 7200 rpm |
| | ST31000340AS | 1000GB | 7200 rpm |
| | ST2000DM001 | 2TB | 7200 rpm |
| | ST2000VX000 | 2TB | 7200 rpm |
| | ST3000VX000 | 3TB | 7200 rpm |
| WD | WD2500AAKX | 250GB | 7200 rpm |
| | WD2500AAKX | 250GB | 7200 rpm |
| | WD3200AAKS | 320GB | 7200 rpm |
| | WD5000AACS | 500GB | 7200 rpm |
| | WD5000AZRX | 500GB | 7200 rpm |
| | WD6400AAKS | 640GB | 7200 rpm |
| | WD7500AAKS | 750GB | 7200 rpm |
| | WD10EADS | 1TB | 7200 rpm |
| | WD10EALX | 1TB | 7200 rpm |
| | WD15EADS | 1.5TB | 7200 rpm |
| | WD20EADS | 2TB | 7200 rpm |
| | WD20EURS | 2TB | 7200 rpm |
| | WD2002FAEX | 2TB | 7200 rpm |
| | WD20EARS | 2TB | 7200 rpm |
| Maxtor | STM3500320AS | 500GB | 7200 rpm |
| | STM3750330AS | 750GB | 7200 rpm |
| HITACHI | HDT725032VLA360 | 320GB | 7200 rpm |
| | HDS7211050DLE630 | 500GB | 7200 rpm |
| | HDS721010KLA330 | 1000GB | 7200 rpm |
| | HDS723020BLA642 | 2TB | 7200 rpm |

Note: It's not recommended to use a green hard disk with your recorder to make sure it works properly.

APPENDIX 3 BATTERY REPLACEMENT

The time reset after power failure, for example, caused by a power outage, will cause the disorder of the recorded data, and users may have problems in searching the event clip they want. To keep the device time from resetting, a non-chargeable lithium battery, CR2032, is installed in the device.

However, the device time might still get reset when the battery is low or even running out of power. If so, please replace the device battery, CR2032, **right away** as instructed below.

➤ How to replace CR2032

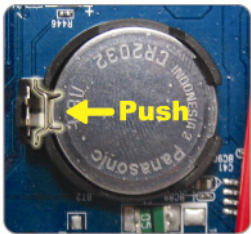
Note: The lithium battery, CR2032, is a non-chargeable battery, and should be purchased separately. Please replace only with the same or equivalent type battery in case of danger.

Step1: Stop all recording **immediately** to prevent the disorder of the recorded data. Then, back up the recorded data if necessary.

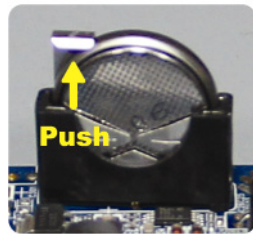
Step2: Power off the device, and disconnect the power.

Step3: Remove the device cover, and find the battery on the mainboard.

Step4: Push the release as indicated below to remove the battery.



Type1



Type 2

Step5: Get a new battery and install it to its slot on the main board.

- For Type 1, install it with the side of “CR2032” facing up as shown above.
- For Type 2, install it without the side of “CR2032” facing you as shown above.

Step6: Replace the cover and connect to power.

Step7: Set the date & time, and resume recording.

APPENDIX 4 MOBILE SURVEILLANCE VIA EAGLEEYES

EagleEyes is a mobile phone program used with our surveillance system for remote surveillance. It has several advantages:

- It's free (Except *EagleEyes Plus* for iPhone®, and *EagleEyesHD Plus* for iPad®).
- It's compatible with several popular mobile platforms, such as iOS® and Android™.

It's easy to download, install and configure. For more details about configuring and operating this program, please visit our official website www.eagleeyesccv.com.

A4.1 Prerequisites

Before installing *EagleEyes* to your mobile phone for remote surveillance, make sure you have checked the following:

- ✓ Your mobile platform is iOS® and Android™.
- ✓ Mobile Internet services are subscribed and available to use for your mobile phone.

Note: You might be charged for Internet access via wireless or 3G networks. For the Internet access rate details, please check with your local network operator or service provider.

- ✓ You have noted down the IP address, port number, user name and password used to access your network camera from Internet.

A4.2 Where to download

Connect to www.eagleeyesccv.com from your mobile device, and sign in.

Note: Please **DO NOT** try to download *EagleEyes* from your computer.

Select the mobile platform you're using to enter its individual download page.

Note: You can also find *EagleEyes* on "App StoreSM" / "Google PlayTM" from your iOS® / Android™ mobile devices.

When the download is completed, *EagleEyes* will be installed automatically to the location where all applications are saved in your phone by default, or where you specify.

APPENDIX 5 SET PUSH VIDEO

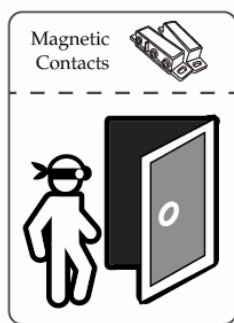
Note: Available only when your recorder supports Push Video.

This series supports instant event notifications to your iOS® / Android™ mobile device with our self-developed program, “EagleEyes”, installed when it's used with the ETS IP camera series.

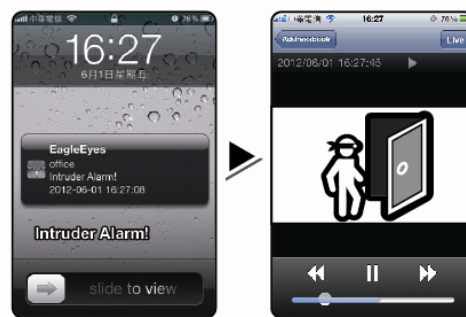
1 Enable Push Video.



2 Trigger the input alarm.



3 Receive an event notification and see video.



A5.1 Prerequisite

Before setting this function, make sure you have checked the following:

- ✓ You have an iPhone® / iPad® / Android™ mobile device with our self-developed program, “EagleEyes”, installed. For details, please refer to the previous chapter.
- ✓ An ETS IP camera is connected to this recorder, and this camera has built-in an alarm sensor, or an alarm device, such as magnetic contacts, is connected to this camera.
- ✓ The alarm configuration is set properly in “ADVANCED CONFIG” .→ “NOTIFY” → “PUSH VIDEO”, and “GUARD” is set to “ON”.

Note: For details, please refer to “PUSH VIDEO (for selected models only)” at page 30.

- ✓ The recorder is connected to Internet. For details, please refer to www.surveillance-download.com/user/network_setup/network_setup_recorder.pdf.

A5.2 Enable Push Video

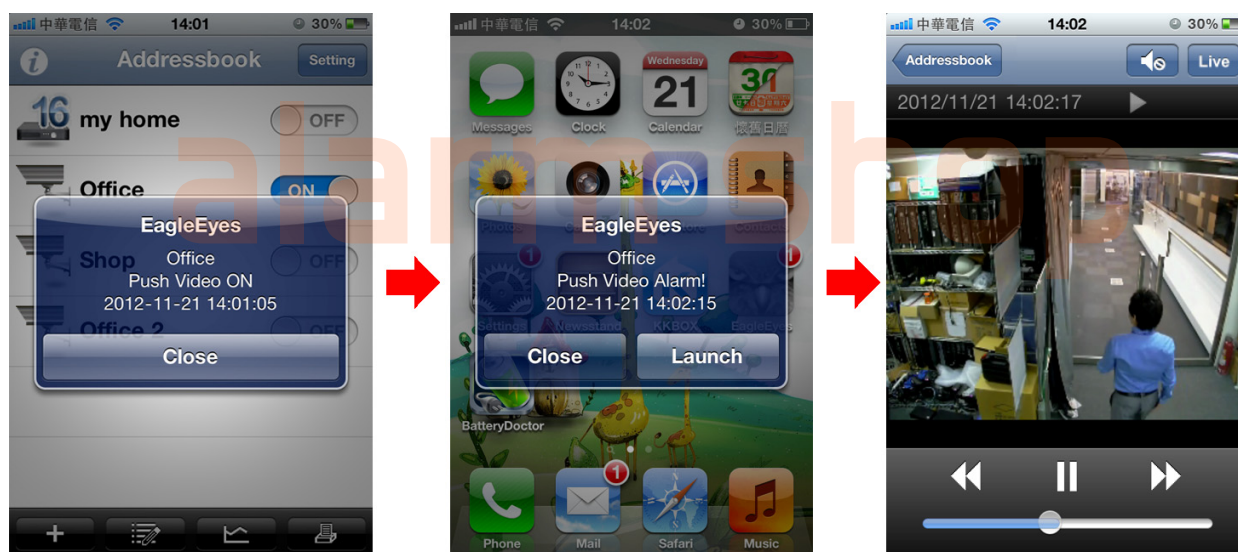
A5.2.1 From iOS® Mobile Device (iPhone® / iPad®)

Step1: In the iPhone® / iPad® main menu, select “Settings” → “Notifications”. Select “EagleEyes”, and make sure “Notification Center” is set to “ON”.



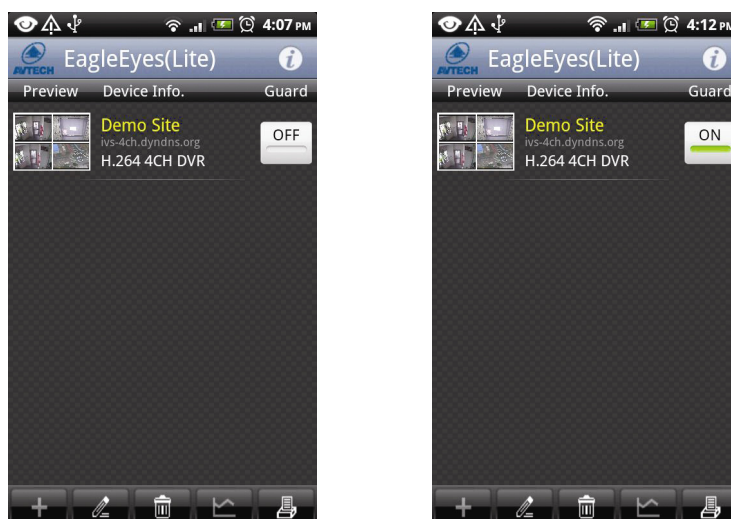
Step2: Open “EagleEyes”, and switch the Push Video button to “ON”. You’ll receive the message indicating that Push Video is on.

Step3: Return to the main menu of your iPhone® / iPad®. You’ll receive event notifications when there’s an alarm event. Select “Launch” (or “View” base on your iOS® version) to immediately play the recorded clip.



A5.2.2 From Android™ Mobile Device

In the address book, switch “Guard” from “OFF” to “ON”.



APPENDIX 6 PRODUCT SPECIFICATIONS

➤ 4CH

| | | Model 1 | Model 2 |
|----------------------------------|---------------------|--|---|
| Hardware | | | |
| Video Input | | 4 LAN ports | |
| Video Output | | HDMI | |
| Video Output Resolution | | 1920 x 1080 | |
| HDD Storage** | | One 3TB HDDs | |
| eSATA | | YES (support up to 4-bay disk array with RAID 0 and 1) | |
| USB Ports | | Two on the front panel: one for video backup to USB flash drive, and another for NVR control via a USB mouse | |
| IR Remote Control | | YES | |
| Ethernet | LAN port | 10/100Mbps with PON | 10/100Mbps with POE |
| | Internet (WAN) port | 1000Mbps | |
| Software | | | |
| Video Compression Format | | H.264 | |
| Local / Remote Display Mode | | 4CH | |
| Local / Remote Playback Mode | | 4CH | |
| Single Channel Playback | | YES | |
| Recording Mode | | Manual / Event / Alarm / Schedule | |
| Recording Throughput | | Up to 120IPS @ 1280 x 1024, 32 Mbps | |
| Pre-alarm Recording | | YES | |
| Quick Search | | Time / Event | |
| Event Notification | | Message Mail / Video Mail | Push Video / Push Message / Message Mail / Video Mail |
| Security | | 4 user access levels with password | |
| Remote Access | | (1) Internet Explorer on Windows operating system (2) EagleEyes on iOS & Android mobile devices (3) Our self-developed program, Video Viewer | |
| General | | | |
| Power Source (±10%) | | DC 48V / 1.25A | |
| Power Consumption (±10%) | | 7.68W (without a hard disk and POE IP camera connected) | |
| Operating Temperature | | 10°C ~ 40°C (50°F~104°F) | |
| Dimensions (mm)** | | 345 (L) x 225 (W) x 68.3 (H) | |
| Minimum PC Browsing Requirements | | <ul style="list-style-type: none"> • Intel core i3 or higher, or equivalent AMD • 2GB RAM • AGP graphics card, Direct Draw, 32MB RAM • Windows 7, Windows Vista & Windows XP, DirectX 9.0 or later • Internet Explorer 7.x or later | |
| Peripherals | | Power-over-Coaxial Converter | |

* Specifications are subject to change without notice.

** Hard disks are optional

** Dimensional tolerance: ±5mm