



## VT-HDOC Series 4, 8, & 16 Channel HD-SDI Digital Video Recorders



- 4, 8, or 16 Channel HD-SDI Inputs with Full 1080p Camera Support
- Hybrid Operation: Supports HD-SDI, D1, & 960H Analog cameras (8 & 16 Channel Models)
- Simple plug and play, point-to-point connection from camera to DVR
- VT-HDOC16: 480fps Live Display, Recording & Playback at 720p/1080p
- VT-HDOC8: 240fps Live Display, Recording & Playback at 720p/1080p
- VT-HDOC4: 120fps Live Display Speed at 720p/1080p & 120fps Recording & Playback at 720p (60fps at 1080p)
- HDMI, VGA, and BNC Outputs
- 2 Internal SATA2/SATA3 HDD Ports supporting up to 8TB (2 x 4TB HDD) using Advanced HDD Format (VT-HDOC16 Offers 4x SATA Ports for up to 16TB Internal Storage)
- External SATA Port (eSATA)
- Add 4 Analog SD Cameras (per HD input) with optional VT-QHD4
- Alarm In/Out
- Remote Viewing via CMS Software, Web Browser, and Mobile Phones (iOS/Android)
- Pentaplex Operation (Simultaneous Playback, Recording, Backup, Network)
- 4 Channel Audio In with RCA & HDMI Audio Output
- Adjustable Motion Detection Grid
- Thumbnail Search



VITEK

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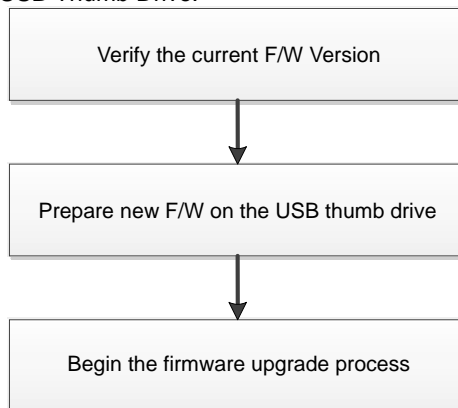
# 1. BEFORE INSTALLING

- Installation should be carried out only by qualified personnel and in accordance with electrical regulations in force.
- The DVR must be placed on a stable surface or mounted in an approved cabinet. Adequate ventilation must be provided, taking particular care not to block any of the air vents on the DVR.
- Adequate protection against lightning strikes and power surges must be installed to prevent damage to the DVR.
- Any safety warnings on the DVR and in these instructions must be adhered to.
- If cleaning is necessary, shutdown the DVR and disconnect the power source first. Use a soft dry cloth only – never use an abrasive cleaner.
- Do not attempt to service or repair the DVR as opening or removing covers may expose dangerous voltage or other hazards. Refer all servicing to qualified service personnel

## 1.1 UPDATING SYSTEM F/W

### 1.1.1 WITH A USB THUMB DRIVE

Steps to upgrade the firmware via USB Thumb Drive:



#### 1.1.1.1 How to verify the F/W version

Check the F/W version provided and the F/W version currently used in the system. From the [MANAGEMENT section under the SYSTEM menu](#), you can see the current version of F/W.

SYSTEM INFO.	
F/W VERSION	1.08G1
H/W VERSION	WH-H3
UI VERSION	1.1.A.4
VIDEO SIGNAL TYPE	NTSC
HDD 0 (931 GB)	ST31000524AS /JC4B
HDD 1 (931 GB)	ST31000524AS /JC47
IP ADDRESS	192.168.1.200
MAC ADDRESS	00:0A:2F:00:2A:FA
DDNS SERVER ADDR	kddns.icam.co.kr
DVR SERVICE PORT	9554
WEB SERVICE PORT	9077
FAN STATUS	5769 RPM
TEMPERATURE	53 °C / 127.4 °F

- Please avoid updating if the version number of F/W file is lower than the current F/W version.

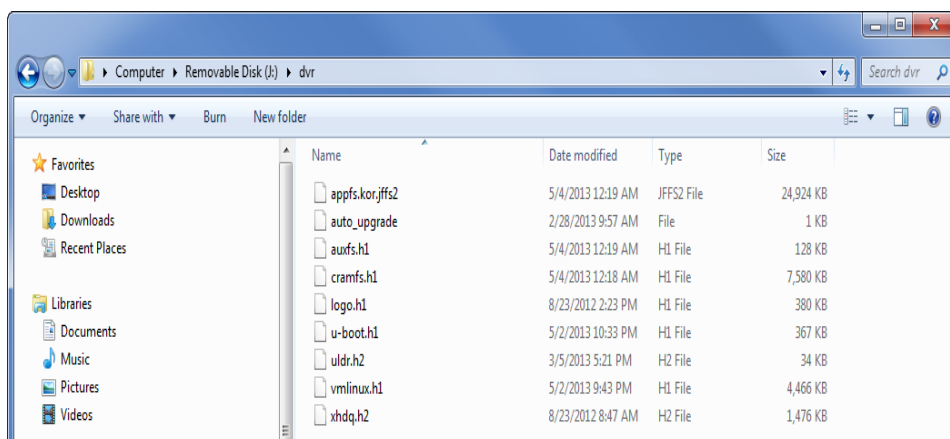


- **Firmware 1.04D** The 'v1.04D' in the file name means the F/W version.

### 1.1.1.2 Preparing new F/W in the USB thumb driver

All the required F/W files should be copied under the 'dvr' folder. Refer to the following steps:

- ✚ Plug the USB thumb drive into a PC.
  - ✚ Make a 'dvr' folder on the root directory on the USB thumb drive.
    - ⦿ The characters, 'd','v','r', in the folder name have to be in lower case not in capital.
  - ✚ Copy the released F/W zip file into the 'dvr' folder in the USB thumb drive.
  - ✚ Extract the zip file under the 'dvr' folder. Finally all files should be located under the 'USB thumb drive\dvr'. Refer to the below picture.

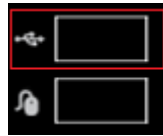


- ✚ Do 'Safe Remove Hardware and Eject Media' from your Windows.
  - ⦿ Note) F/W upgrade must be followed by manufacturer's direction.

### 1.1.1.3 Upgrading System from the System Menu

How to update the firmware:

- ✚ Prepare USB drive (format in fat32) and create folder with the name “dvr” download updated firmware from <http://vitekctv.com/Downloads.asp> into “dvr” folder
- ✚ Cycle the DVR’s power (turn DVR Off then On and boot up)
- ✚ Plug the prepared USB thumb drive in the USB port of DVR. Only the upper USB port in the Front panel of DVR is allowed to update the F/W.



- ✚ Enter the DVR menu and select “SYSTEM” then “MANAGEMENT”
- ✚ Select “F/W UPGRADE” and the following image will display

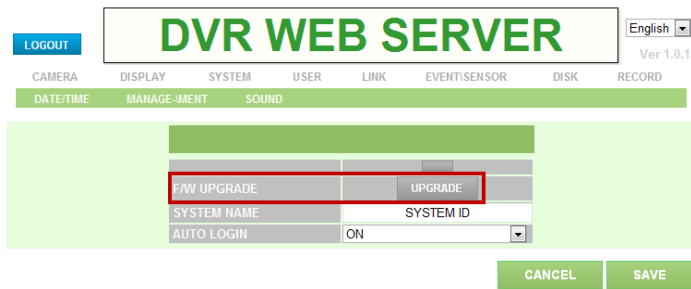


- ✚ Press and enter ‘Upgrade’.
- ◆ The updating process can take from 1 to 10 minutes.
  - ◆ Don’t remove the USB thumb drive during update.
  - ◆ Don’t turn the DVR off during update.
- ✚ When the update is completed the DVR will reboot
- ✚ Remove the USB thumb drive from the DVR.
- ✚ If the firmware upgrade is finished, system will start auto re-booting.

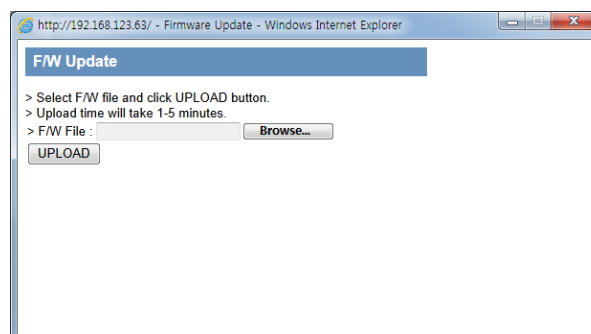
### 1.1.2 UPDATING FROM THE WEB MENU

Using the web GUI to update the system F/W remotely:

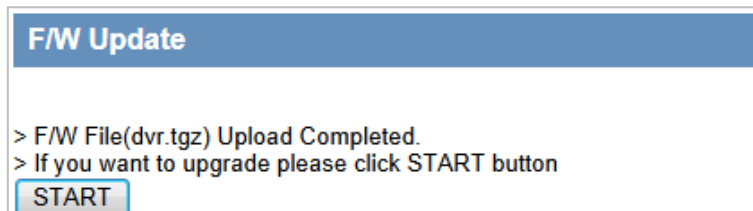
- ◆ For more information on how to access the web GUI, refer to [section 7.1, ‘WEB SERVER’](#) of this user’s guide.
- ✚ Log in to the web GUI
- ✚ Go to ‘SYSTEM’ then ‘SYSTEM MANAGEMENT’. Refer to the below picture.



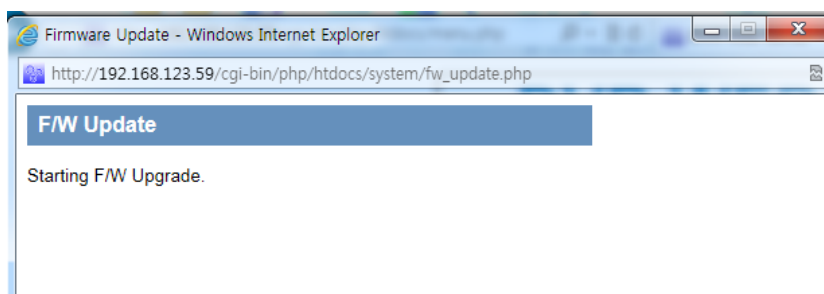
- ✚ Click the 'F/W UPGRADE' button
- ✚ In 'F/W Update' pop-up, click the 'BROWSE' button locate and select the firmware.
- ✚ Choose the provided F/W files which has the file extension 'tar.gz or tgz'.

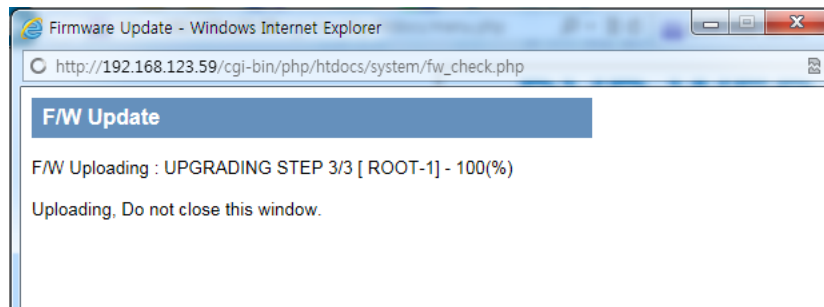
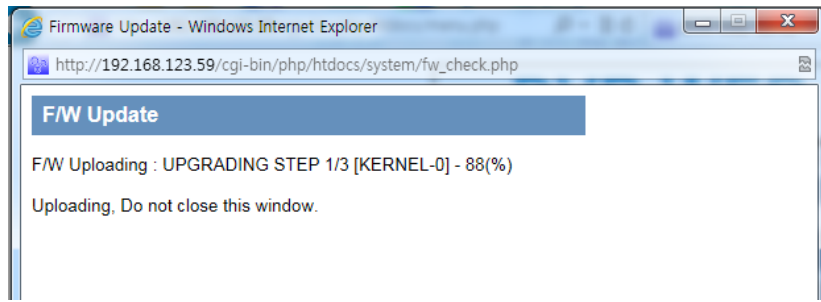


- ✚ Click the 'UPLOAD' button to upload the F/W to the system.
- ✚ After the firmware has uploaded, the system will be ready for the update. Click the 'START' button to begin the updating processes.



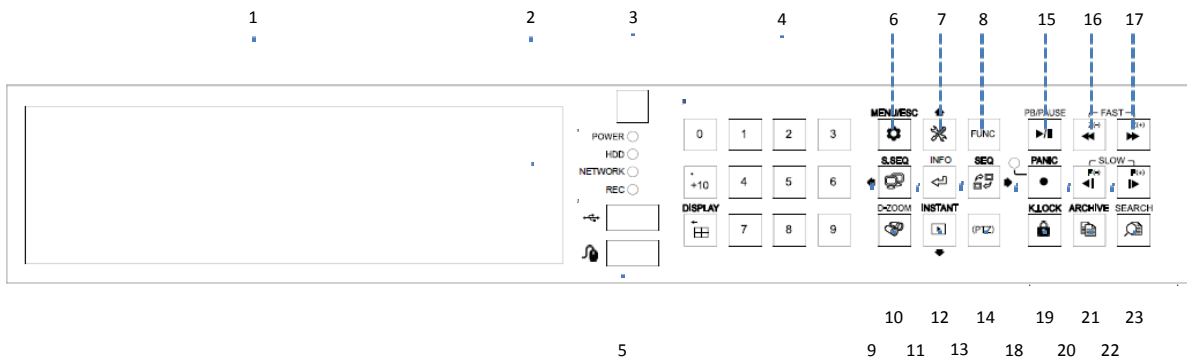
- ✚ During the update, the progress will be displayed (see below).






- ✚ System shows the [COMPLETE] when it finish of updating step and reboot automatically.
- ✚ When the whole update is completed, the DVR will restart and be ready to work.
- ⦿ Turning off the power in any process of f/w updating cause the damage of the system.



## 1.2 DESCRIPTION OF FRONT PANEL



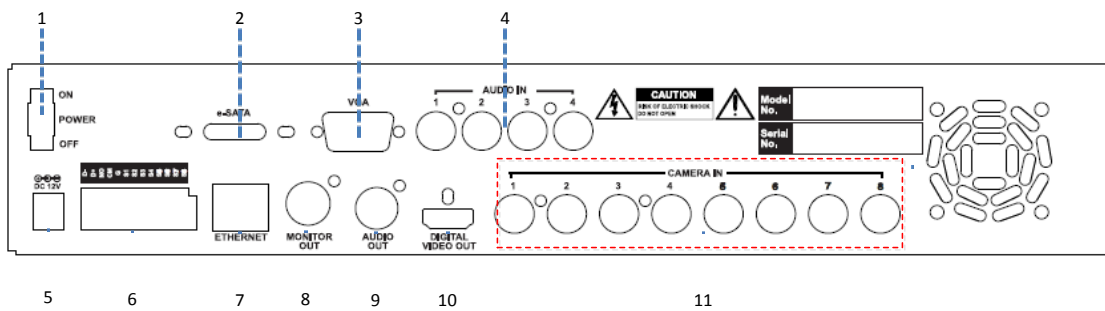
[Front panel of 4 / 8CH HYBRID-DVR]

<p><b>1. DVR Model</b></p> <p><b>2. STATUS LED</b> Displays the information of the DVR (Stand –By), Record / HDD read/write and Network transmission.</p> <p><b>3. IR RECEIVER</b> Infrared signal receiver for the IR remote controller</p> <p><b>4. CHANNEL SELECT / NUMERIC KEYPAD / MULTI</b></p> <ul style="list-style-type: none"> <li>• Selects the desired channel and show it with the full scale.</li> <li>• Enter the number or numbers required to be input, Password, IP address, Time &amp; Date and Etc.</li> </ul> <p>• [  ] → Dot symbol for the input of IP address.</p>	<p><b>10. DIGITAL ZOOM</b> Enters digital zoom mode.</p> <p><b>11. INFO</b></p> <ul style="list-style-type: none"> <li>• Executes the selected function in the menu screen or enters the selected submenu.</li> <li>• Accesses the status window from the live screen.</li> </ul> <p><b>12. INSTANT PLAYBACK</b></p> <ul style="list-style-type: none"> <li>• If you press the “Instant playback” key, instant playback will start from the present time. In multi-screen mode, channel number 1 will be displayed by default. At full screen mode, the selected channel will be displayed on playback.</li> </ul> <p><b>13. AUTO SEQUENCE</b></p> <ul style="list-style-type: none"> <li>• Activates and deactivates the automatic channel sequence.</li> </ul> <p><b>14. PTZ</b></p>
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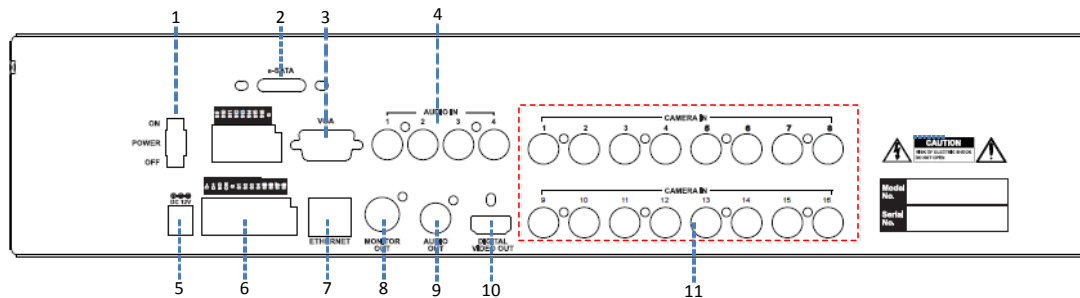


<p> [  ] → Back Space, deletes and moves character to the left. Toggles between various multiple displays. 4 channel-splits screen display.</p> <p><b>5. FRONT USB 1.1 / 2.0 PORT</b> USB 2.0 ports. Supports functions such as ‘Copy to USB storage’, ‘F/W Upgrade’, Etc. USB 1.1 ports. Supports ‘Mouse Operation’</p> <p><b>6. SPOT MONITOR / ESC</b></p> <ul style="list-style-type: none"> <li>• Calls and gets into the main menu.</li> <li>• Returns to previous menu screen.</li> <li>• Exits from various function and menu screens.</li> </ul> <p><b>7. Tool Bar / UP</b></p> <ul style="list-style-type: none"> <li>• Calls and gets into the Tool Bar.</li> <li>• Tilts up in PTZ control mode.</li> <li>• Move the cursor up in the menu.</li> </ul> <p><b>8. FUNCTION</b></p> <ul style="list-style-type: none"> <li>• If you press “Function Key”, function list of DVR will be displayed. If you press “Function Key + Tool Bar / Up Key”, video out resolution of HDMI / VGA will be changed.</li> </ul> <p><b>9. SPOT AUTO SEQUENCE / LEFT</b></p> <ul style="list-style-type: none"> <li>• Pans left in PTZ control mode.</li> <li>• Moves the cursor left in the menu screen.</li> </ul>	<ul style="list-style-type: none"> <li>• Enters PTZ control mode.</li> </ul> <p><b>15. PLAY / PAUSE</b></p> <ul style="list-style-type: none"> <li>• In playback mode, Pause / Play key will toggle.</li> </ul> <p><b>16. REVERSE FAST</b></p> <ul style="list-style-type: none"> <li>• In playback mode, max X 120 reverse playback speed supported.</li> </ul> <p><b>17. FAST</b></p> <ul style="list-style-type: none"> <li>• In playback mode, max X 120 forward playback speed supported.</li> </ul> <p><b>18. PANIC RECORD</b></p> <ul style="list-style-type: none"> <li>• Activates the panic record mode.</li> </ul> <p><b>19. KEY LOCK</b></p> <ul style="list-style-type: none"> <li>• Activates the Key Lock mode.</li> </ul> <p><b>20. REVERSE SLOW</b></p> <ul style="list-style-type: none"> <li>• In playback mode, max X 1/120 slow reverse playback supported.</li> </ul> <p><b>21. ARCHIVE</b></p> <ul style="list-style-type: none"> <li>• Enters the archive menu screen.</li> </ul> <p><b>22. SLOW</b></p> <ul style="list-style-type: none"> <li>• In playback mode, max X 1/120 slow forward playback mode supported.</li> </ul> <p><b>23. SEARCH</b></p> <ul style="list-style-type: none"> <li>• Enters the search menu screen.</li> </ul>
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## 1.3 DESCRIPTION OF REAR PANEL



[Rear panel of 8ch Hybrid-DVR]



[Rear panel of 16ch Hybrid-DVR]

<p><b>1.Power Switch(Only the 4CH HYBRID-DVR)</b> Switch to turn the DVR ON &amp; OFF.</p> <p><b>2.eSATA Connection Port(Optional)</b> connect e-SATA storage to expand HDD</p> <p><b>3.VGA Output (Video Graphic Array)</b> 15-pin D-sub connector for the analogue VGA output.</p> <p><b>4.Audio Inputs</b> RCA connectors for the audio signal inputs. (Line In)</p> <p><b>5.Power In</b> 12V DC Power socket.</p> <p><b>6.Alarm(Sensor) Inputs, RS-485, and Relay Output</b></p> <ul style="list-style-type: none"> <li>Alarm inputs x 4</li> <li>RS-485 Signals. (G: Ground, D+: RX/TX + signal, D-: RX/TX- signal)</li> <li>4CH HYBRID-DVR: Relay output for the relay 1 (NO: Normal Open, NC: Normal Closed, CM: Common)</li> <li>8&amp;16CH HYBRID-DVR: Relay output for the relay 2 (NO: Normal Open, NC: Normal Closed, CM: Common)</li> </ul>	<p><b>7.RJ-45 Network Port( 1G Base-T)</b> Network port is used to 1G base-T, PC application software or Mobile application.</p> <p><b>8. CVBS Monitor Output</b> Composite video output for the spotlive screen. (BNC)</p> <p><b>9.Audio Outputs</b> RCA connectors for the audio signal outputs. (Line out)</p> <p><b>10.DIGITAL VIDEO OUT</b> Digital video output for the main monitor.</p> <p><b>11. HD-SDI or Analog Camera Input</b> analog Camera input or HD-SDI video inputs for each camera</p>
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## 2. GETTING STARTED

### 2.1 CONNECT AND SWITCH ON

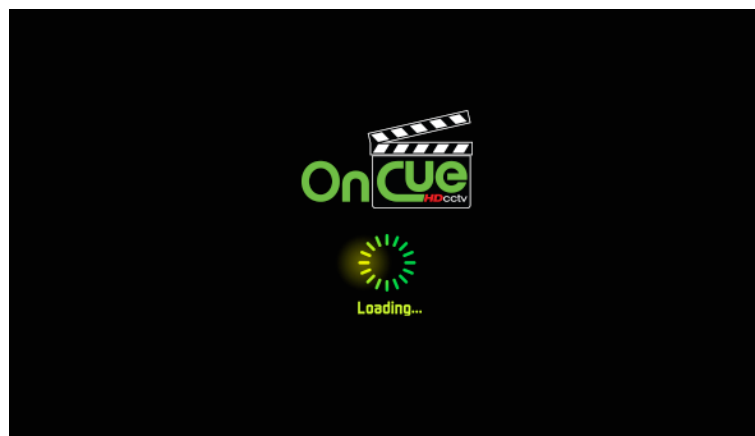
Connect HD cameras to camera inputs on the back of the DVR.  
Connect one or more monitors to the DVR using HDMI, VGA, CVBS.

Connect power to the DVR. Press the power button on the back panel of the DVR to power on the DVR.



[Logo Image]

- Initial set resolution is 1024 x 768, so you should use monitor higher than 1024x768



[Loading....]

- From loading screen display, recording starts according to pre-set condition.
- When loading, screen could flash odd colors while HYBRID-DVR is processing to optimize display.

Hybrid-DVR is ready, automatically log-in and live screen is shown below.

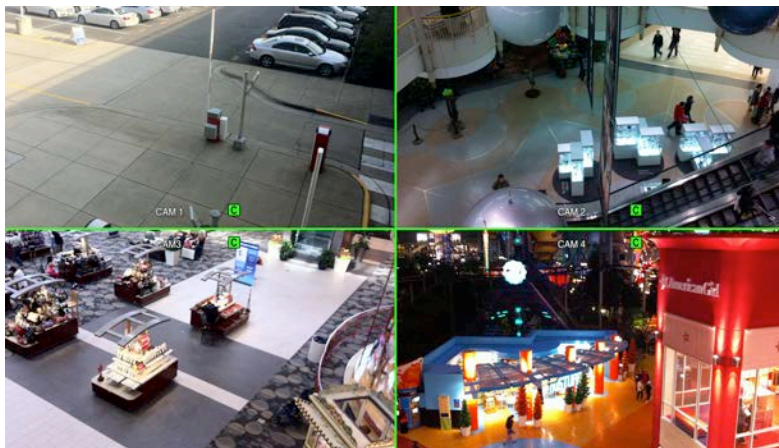


After startup diagnostics are complete, the operator must log-on to the system. The default user name is "ADMIN". Using **the mouse or channel selection buttons**, key in the default password of "1234" and press the enter

button



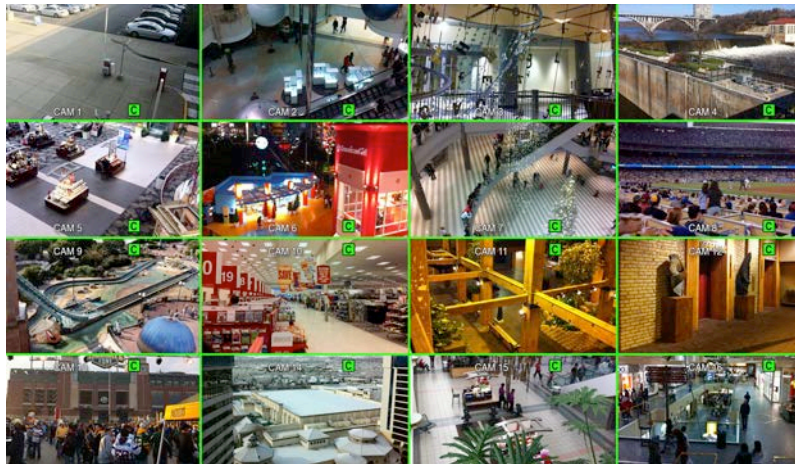
[Log-In]



[live mode of 4 channels]




[live mode of 8 channels]



[live mode of 16 channels]

## 3. TOOL BAR

You can view the Tool Bar when you move the mouse to the bottom of screen.


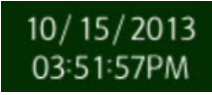
The Tool bar display will disappear after pre-defined amount of time or exit with exit button (  ). In the menu you can set the display time of Tool bar.



### 3.1 STATUS DISPLAY



You can check current time / Network connection/ USB storage connection/ Auto sequence/ HDD location currently recorded / Audio.





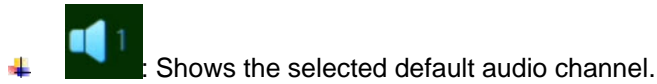
  : Display current time.(Year / Mouth / Day / Hour / Minute / Second)

  : Shows Network connection.

  : Shows USB Storage connection

  : Shows Auto sequence

  : Shows HDD location which is currently recording.



### 3.2 LOG OFF

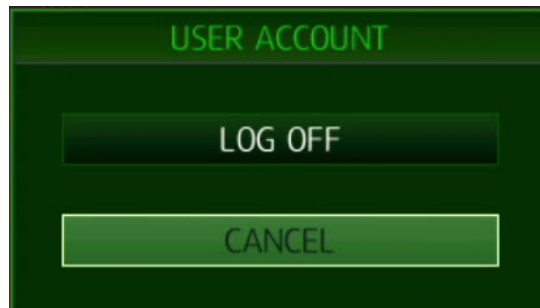
There are two way's to log off. One is manual log off and the other one is automatic log off after configured time passed.

User manually log off or in the menu you can set automatic log off after certain amount of time.

#### [Log-Off by using TOOL BAR]



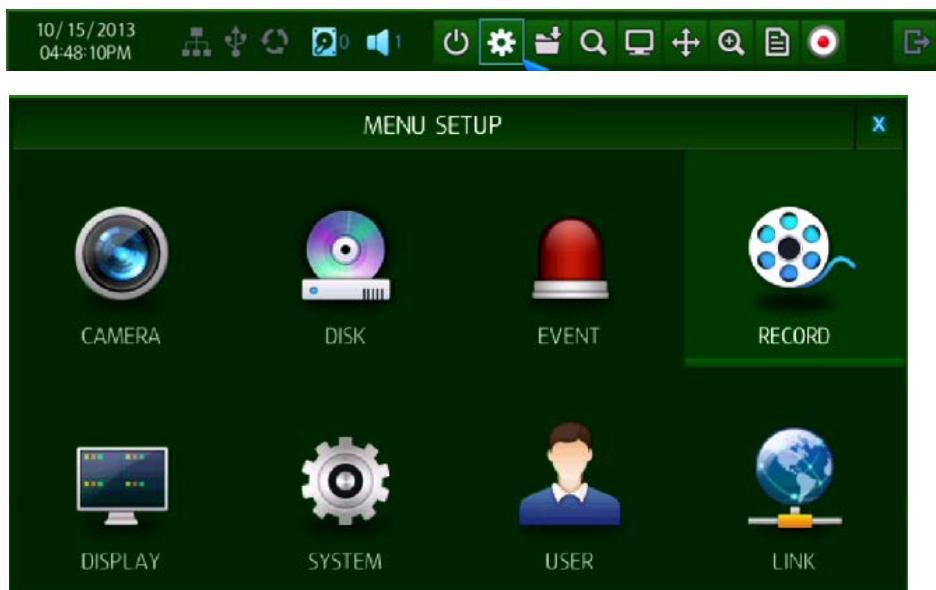
Once Log off is selected as above, current account can be log off.



Once user log's out, you can view the log in window .  
Once you log off, you can't operate HYBRID-DVR , log in again to continue.

### 3.3 Main Menu POP-UP

If you click main menu button, main menu will display.



### 3.4 QUICK COPY MENU POP-UP

If you click following icon, instant Backup menu will be pop up. You can save the data 10 minutes from the current time.



### 3.5 SEARCH MENU POP-UP

To search a particular section of recorded footage, click the **SEARCH** button.

To protect unauthorized viewing of footage, only authorized users can playback footage.













### 3.6 DISPLAY POP-UP

You can configure display mode by clicking display button.



You can select Quad / Single/ Auto sequence by selecting item in pop-up menu.

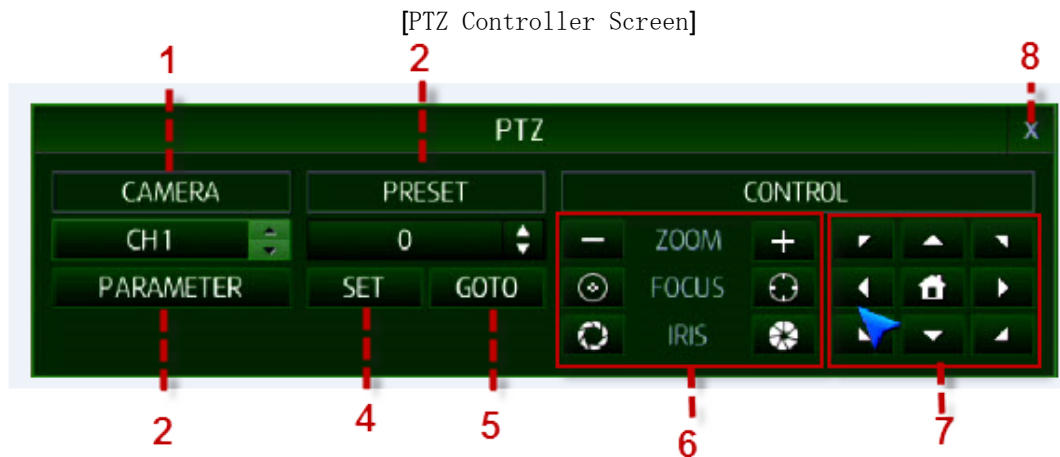


-   : Single Screen Mode
-   : Quad Screen Mode.
-   : 9-split Mode.
-   : 16-split Mode.
-   : Auto Sequence Mode.

### 3.7 PTZ Controls

When in quad display mode, the PTZ control panel will be opened for the selected camera (camera that is highlighted). If there is no highlighted camera, the PTZ control panel is opened for controlling camera 1. In single display mode, the PTZ control panel is opened for the currently displayed camera.





- 1: Select channel for PTZ control.
- 2: Display PTZ control parameters which are set under the 'DETAIL' of PTZ menu settings
- 3: Number to configure Preset.
- 4: Save current screen as Preset.
- 5: Move to configured Preset Number.
- 6: Control the value of Zoom/ Focus/ Iris.
- 7: Move the PTZ camera to Left/ Right/Tom/Bottom
- 8: Move to the Home position of PTZ camera.

### 3.8 DIGITAL ZOOM

There are two ways to digitally zoom:

- Select the Zoom button on the Tool bar.
- Click and drag with the mouse

#### [Zoom by using the TOOL BAR]

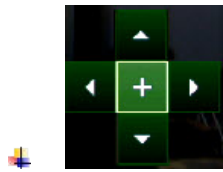
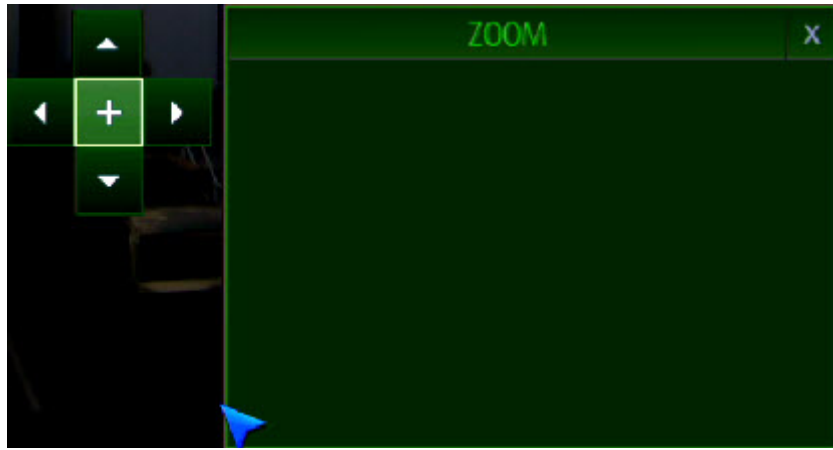
Desired camera should be at Full screen mode, and then select the Zoom button.

NOTE: When selecting the Zoom button while on multi display mode, channel 1 is automatically displayed.



In tool box, once select digital zoom, screen convert single screen, show below digital zoom control window.





: You can move Zoom Box



: If you press this button, you can control zoom box by 5 levels.





Currently Zooming screen.

**[Zoom by using Mouse]**



In full screen mode, you can select the area to zoom in/out by holding down left Mouse button. (Drag), Clicking on the zoomed screen, the display returns to the original screen.



-  Digital Zoom supported in Live / Play mode
-  Digital Zoom supported only in Full screen mode.


### 3.9 LOG LIST

You can view the log list by selecting log list button in Tool bar.



NO	DATE/TIME	LOG
1	2013/10/15 14:50:54	ADMIN AUTO LOGIN
2	2013/10/15 14:50:54	POWER ON
3	2013/10/15 14:49:12	ADMIN PASSWORD FAIL
4	2013/10/15 14:49:04	ADMIN LOGOUT
5	2013/10/15 13:14:12	MORNITOR MENU CHANGE
6	2013/10/15 12:35:18	MORNITOR MENU CHANGE
7	2013/10/15 12:06:14	COPY FAIL
8	2013/10/15 12:06:14	COPY START
9	2013/10/15 11:49:19	NETWORK DISCONNECTED:192.168.1.131
10	2013/10/15 11:48:40	NETWORK CONNECTED:192.168.1.131
11	2013/10/15 11:48:37	NETWORK DISCONNECTED:192.168.1.131
12	2013/10/15 11:46:07	NETWORK CONNECTED:192.168.1.131
13	2013/10/15 09:43:57	ADMIN AUTO LOGIN
14	2013/10/15 09:43:57	POWER ON
15	2013/10/15 09:41:55	POWER OFF
16	2013/10/15 09:17:49	NETWORK DISCONNECTED:192.168.1.132
17	2013/10/15 09:17:39	NETWORK CONNECTED:192.168.1.132
18	2013/10/15 09:01:50	NETWORK DISCONNECTED:192.168.1.132
19	2013/10/15 09:01:27	NETWORK CONNECTED:192.168.1.132
20	2013/10/15 08:57:19	ADMIN AUTO LOGIN
21	2013/10/15 08:57:19	POWER ON
22	2013/10/15 08:55:39	POWER OFF
23	2013/10/14 16:25:42	COPY SUCCESS
24	2013/10/14 16:25:42	COPY START

-  1 : Display number from currently triggered ( Max 10,000 list can be recorded)
-  2 : Date / Time

 3 : Log list Items listed in log list.

- Power ON/OFF
- Backup Start
- Disk Format
- Factory Default
- Camera Menu Change
- PTZ Menu Change
- OSD Menu Change
- Monitor Menu Change
- Sequence Menu Change
- Date/Time Menu Change
- System Management Menu Change
- Sound Menu Change
- User Management Menu Change
- Authority Menu Change
- Logout Menu Change
- Network Menu Change
- DDNS Menu Change
- Alarm In Menu Change
- Alarm Out Menu Change
- Buzzer Out Menu Change
- E-Mail Notification Menu Change
- Disk Management Menu Change
- Record Configuration Change
- Record Schedule Change
- Camera Menu Change
- Firmware Upgrade Success
- Firmware Upgrade Fail
- Admin(User 1 ~ 10) Auto Login
- Admin(User 1 ~ 10) Login
- Admin(User 1 ~ 10) Password Fail
- HDD 1(1 ~ 5) Error For Write
- HDD 1(1 ~ 5) Fail For Write

- HDD 1(1 ~ 5) Error For Read
- HDD 1(1 ~ 5) Fail For Read
- Network Connected
- Time Adjust
- Network Disconnected
- DVR Watchdog Reset
- Menu Data Backup Succeeded
- Menu Data Load Succeeded
- Menu Data Backup Failed
- Menu Data Load Failed
- Camera Menu Changed In Remote
- PTZ Menu Changed In Remote
- OSD Menu Changed In Remote
- Monitor Menu Changed In Remote
- Sequence Menu Changed In Remote
- Date&Time Menu Changed In Remote
- System Management
- User Management Menu Changed in Remote
- Authority Menu Changed in Remote
- To Logout Menu Changed in Remote
- Network Menu Changed in Remote
- DDNS Menu Changed in Remote
- E-Mail Menu Changed in Remote
- Alarm input Menu Changed in Remote
- Alarm Output Menu Changed in Remote
- Buzzer Menu Changed in Remote
- Buzzer Menu Changed in Remote
- E-Mail Event Menu Changed in Remote
- Disk Menu Changed in Remote
- Continuous Record Menu Changed in Remote
- Schedule Record Menu Changed in Remote
- Record Misc Menu Changed in Remote
- FAN Error
- Copy Success

- Copy Fail
- Backup Start
- Backup Stop
- Power OFF

## 3.10 PANIC RECORD

You can turn on "Panic Record" by selecting the Panic Record button on the Tool bar menu

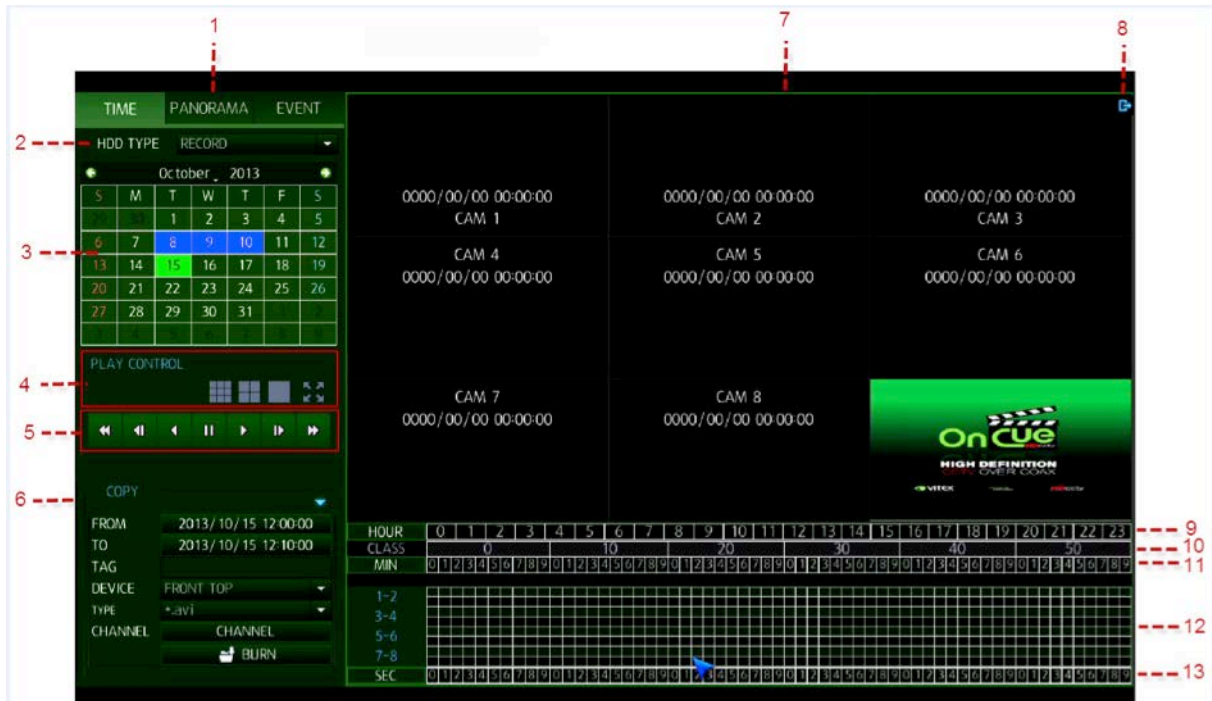


**PANIC REC START:** Starts the panic record mode. Use the Left mouse click to select. If you turn Panic Record on, recording mode will be changed to the Panic record mode that has already been configured in record menu. Panic record will be stopped after the programmed panic record time has passed.

## 4. SEARCH & PLAYBACK

### 4.1 TIME / CALENDAR SEARCH

The DVR uses a calendar and timeline search method for quick access to recorded footage.



1 : Select Search Mode :

- **TIME:** The recorded data can be searched using the calendar.
- **PANORAMA:** If you select the channel for panorama view, search mode will be changed to PANORAMA Mode

- **EVENT:** The recorded data can be searched using the event list.






2 : SEARCH HDD : You can select the HDD to search

- **RECORD:** You can search HDD which is selected as Record.
- **MIRRORING:** You can search HDD which is selected as Mirroring.

3: CALENDAR: If the data recorded in each date, Blue color will be displayed.



- If you select the date having the recorded data, you can make a display of recorded data by hour.

4. Select Split screen
















-  : Single screen playback mode
-  :Quad screen playback mode
-  : 9-split screen playback mode
-  : 16-split screen playback mode
-  : You can playback in full screen mode



- In playback mode in full screen, using tool bar, control playback speed and direction.
- In this single screen, using digital zoom button, digital zoom function can be used.

-  : Return to Search menu.
-  : Close playback screen and return to live screen

5:PLAY CONTROL: Playback speed and direction control.

-  : Reverse Fast Play
  -  : Reverse Slow Play
  -  : Reverse Play
  -  : Pause
  -  : Play (x1)
  -  : Slow Play
  -  : Fast Play
-  6: COPY: You can copy the data to external USB storage.
  -  7: VIDEO WINDOW: Searched video will be displayed
  -  8: Return to live menu from Search Menu
  -  9: HOUR SELECT LINE: You can select the data by hour. If certain time has recorded data, RED color will be displayed.
  -  10: Minutes / seconds display information for the unit : Minutes / seconds for display to help in selection.
  -  11: MINUTE SELECT LINE: You can search the data by minute. If certain minute has recorded data, the green color (continues) red (event) will be displayed.
  -  12: RECORD DATA STATUS: You can view recording status of each channel. If certain minute has recorded data, the green color (continues) red (event) will be displayed.
  -  13: SECOND SELECT LINE: You can select the data by second after starting playback by choosing the desired minute.

## 4.2 PANORAMA SEARCH

By using Panorama Search, user can search, playback, copy by hour/minute/second in 16ch view mode.



### 4.2.1 BASIC OPERATION

- ✚ If you select the panorama channel, search mode will be changed to PANORAMA Mode.
  - Using front channel key or mouse double click, select channel among 16ch multi-channel.
  - Front key 1 can be chosen for first-left channel among 16ch
- ✚ If you select the date of Calendar, panorama playing back will be started from first recorded data in selected date.
- ✚ If you choose the hour you want, will be displayed in minutes.
- ✚ If you choose the minutes you want, will be displayed in second.
- ✚ Using below button, you can change search by hour, minute, second, or display below time.

▶ PLAY : You can see playback from selected time as below



- ▶ HOUR : If you select hour, hour will be displayed.(ex: if currently playback by minutes, then move to hour search)
- ▶ MIN : If you select minute, minute will be displayed (ex: if currently playback by hour, then move to playback by minute)
- ▶ SEC : If you select second, second will be displayed (ex: if currently playback by minutes, then move to playback by second)



- **PREVIOUS** : Shows previous panorama. (ex: if currently playback 17~33 sec, then move to playback by 1~16sec)
- **NEXT** : Shows next panorama. (ex: if currently playback by 1~15sec, then move to playback by 17~33sec)
- **CHANNEL CH1** : Select channel to be played back by panorama.

## 4.3 EVENT SEARCH

The screenshot shows the 'EVENT' menu with a calendar for October 2013, play controls, and an event list table. The event list table is as follows:

NO	DATE / TIME	CH	EVENT TYPE
1	2013/10/15 23:59:37	8	MOTION
2	2013/10/15 23:59:37	5	MOTION
3	2013/10/15 23:59:37	2	MOTION
4	2013/10/15 23:57:03	8	MOTION
5	2013/10/15 23:57:03	7	MOTION
6	2013/10/15 23:55:14	5	MOTION
7	2013/10/15 23:55:11	5	MOTION
8	2013/10/15 23:52:17	8	MOTION
9	2013/10/15 23:52:17	5	MOTION
10	2013/10/15 23:52:17	4	MOTION
11	2013/10/15 23:52:17	3	MOTION
12	2013/10/15 23:52:17	1	MOTION
13	2013/10/15 23:52:02	8	MOTION
14	2013/10/15 23:52:02	2	MOTION
15	2013/10/15 23:52:00	2	MOTION
16	2013/10/15 23:51:59	5	MOTION
17	2013/10/15 23:51:51	3	MOTION
18	2013/10/15 23:51:51	1	MOTION
19	2013/10/15 23:51:49	8	MOTION
20	2013/10/15 23:51:47	8	MOTION

- 🗨 If you want to search by Event, you need to select date and event menu tab.
- 🗨 If you press Event, Event Search will be started from selected start time.

you can select required hour on time bar by using the mouse

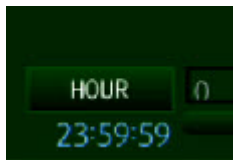
- 🔴 Event list show 20 event per page, 25page can be searched (max. 500 event)

The screenshot shows the event search interface with numbered callouts:

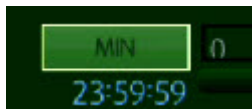
1. Select date which you want to search event.
2. Preview window showing a camera view.
3. Event list table.
4. Time bar (HOUR).
5. Type selection (ALL, SENSOR, V-LOSS, MOTION).
6. Channel selection (ALL, CH1, CH2, CH3, CH4, CH5, CH6, CH7, CH8).
7. Search button.
8. Search button.

- 🗨 1. Select date which you want to search event.

- ✚ 2: Preview: Events selected in the list displays a preview of the record.
- ✚ 3. Search result: event list displayed.
  - No: Number of event display, recent event display with No.1
  - DATE/TIME: Display Event triggered time.
  - CHANNEL: Display Event channel
  - EVENT TYPE: Display Event type.
- Event list display 20 each /page, total 25page(max 500 event)
- ✚ 4: select Event Type which will be displayed in Event list.
  - ALL: Display all events.
  - SENSOR: Display Sensor Event.
  - VIDEO LOSS: Display Video loss Event.
  - MOTION DETECTION: Display motion Event.
- ✚ 5: Search for events by hours / minutes, click on HOUR to switch to MIN .



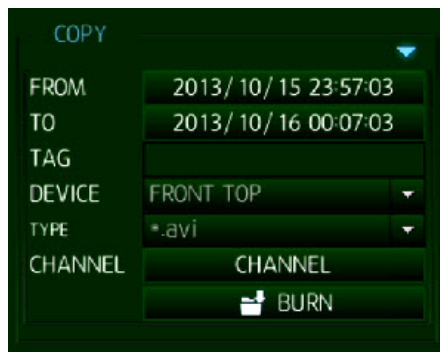
- : Event search by hour



- : Event search by minute

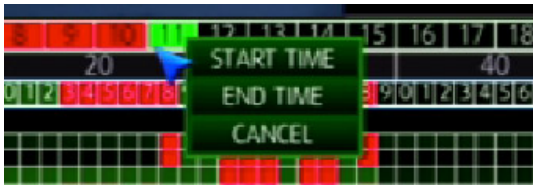
- ✚ 6: You can select which channel which will be displayed in Event list.
- ✚ 7: Switch between EVENT pages (previous and next).
- ✚ 8 : After parameters are set click SEARCH

## 4.4 COPY

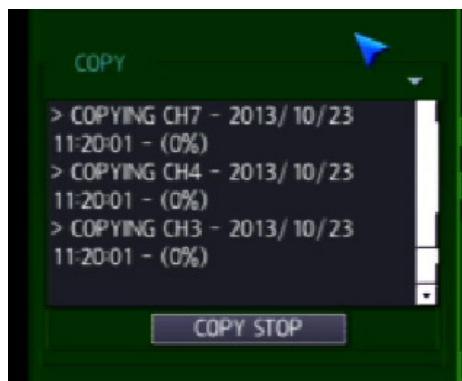


- ✚ FROM: You can select the start time to copy.
- ✚ TO: You can select the end time to copy.

- ✚ TAG NAME: Name file folder of backup.
- ✚ DEVICE: You can select which port of USB to copy to.
- ✚ CHANNEL: You can select which channel to copy.



- ✚ Quick FROM/TO set up: Right click on time bar on time to start the copy from and select START TIME then Right click on time to end copy and select END TIME
- ✚ Copy start: start copy with selected time and condition. Display copy progress status, you can select 'copy stop' to stop off loading.



## 5. QUICK MENU

If you are using a USB mouse to control the HYBRID-DVR, clicking the right button of mouse will bring up the Quick Menu.

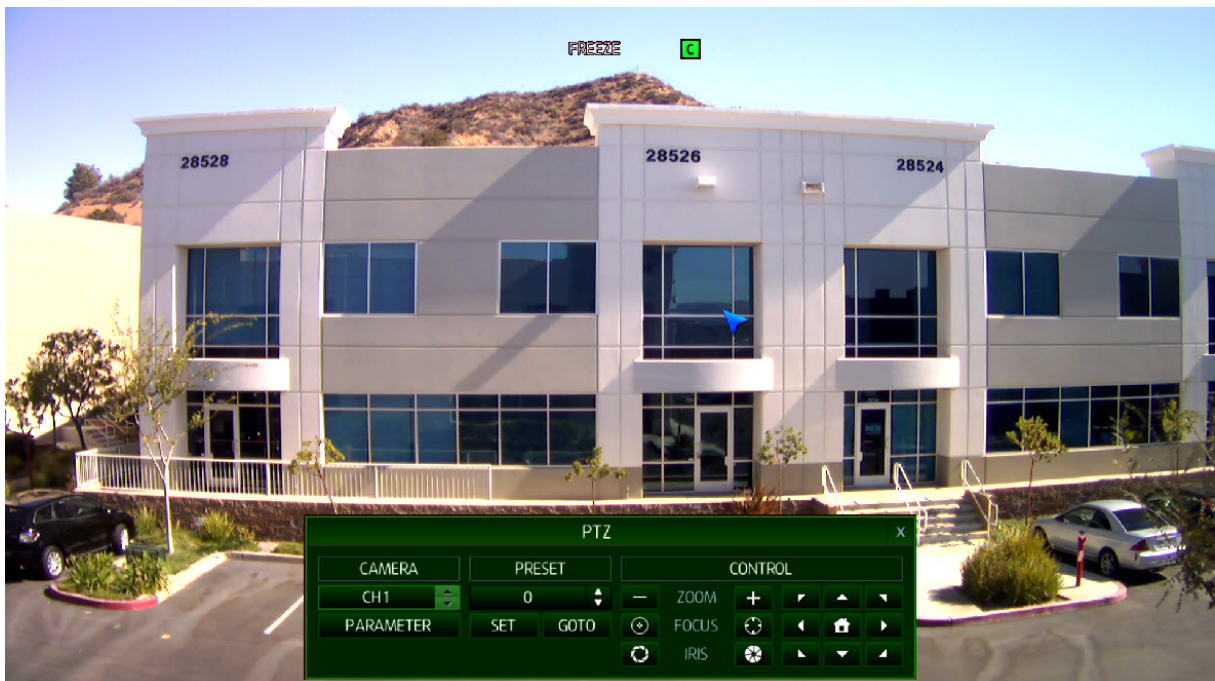
Here you can use Freeze (pause), PTZ control, zoom control, live audio select and Instant Playback.



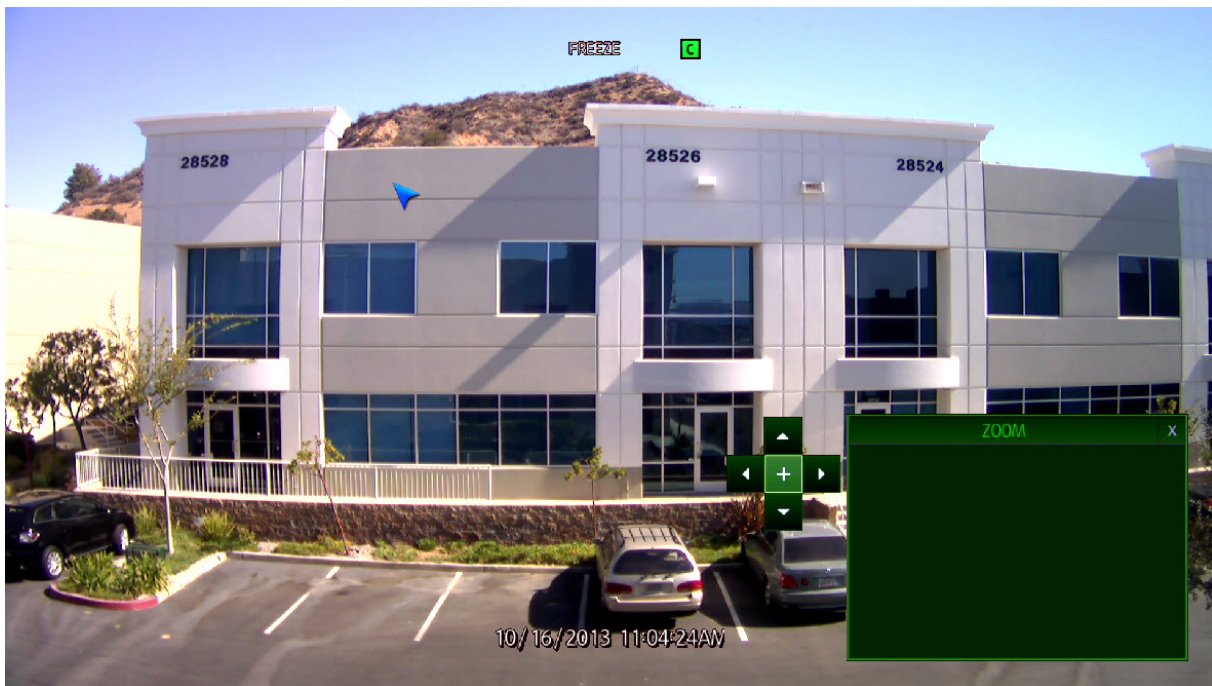
FREEZE ON (pause) : If you press Freeze button, all screen will be stopped.



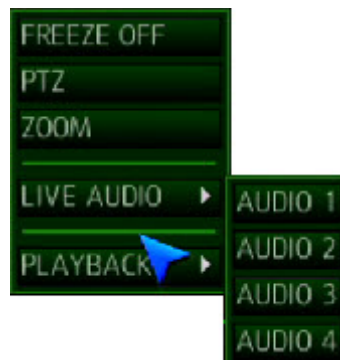
FREEZE OFF : You can release Freeze mode by pressing Freeze Off.



PTZ: Selecting PTZ will bring up PTZ control screen. PTZ can only be controlled by an authorized user. PTZ mode will be activated in the channel you selected by mouse.



- ✚ ZOOM : This opens digital zoom control screen. Zoom mode will be activated in the channel you selected by mouse.
- ✚ Live Audio: Select the live audio channel.

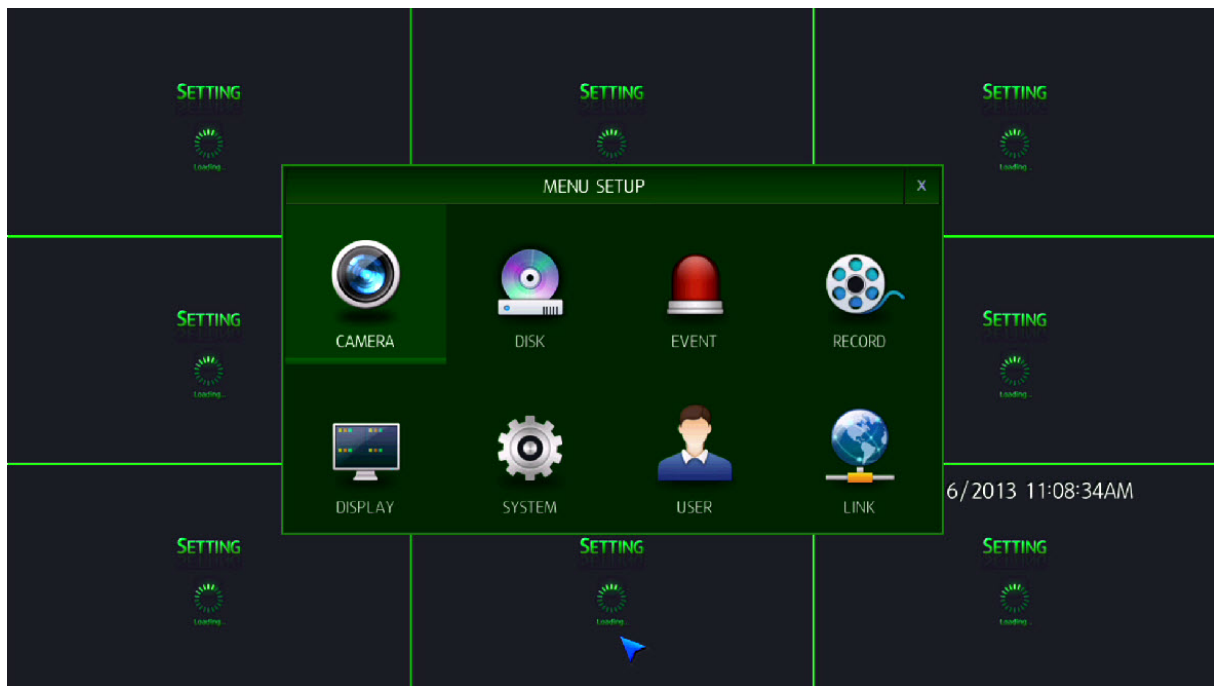


- ✚ PlayBack: Select 10,20,30, 1 minute of recording or you can select **GOTO** to play specific time desired



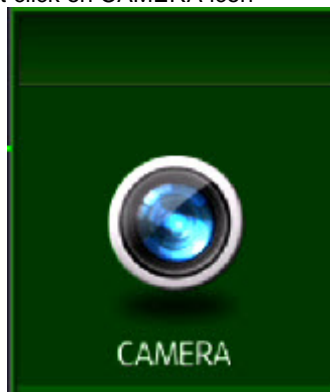
## 6. HOW TO CONFIGURE

To view the setup menu, press menu button in toolbar. Following screen will be displayed.



### 6.1 CONFIGURING CAMERA

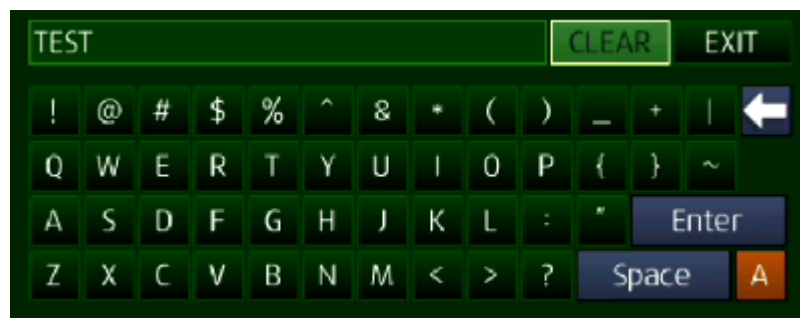
To set-up the various camera options, left click on CAMERA icon



### 6.1.1 TITLE

- TITLE: Up to 10 characters can be set by using the virtual keyboard.

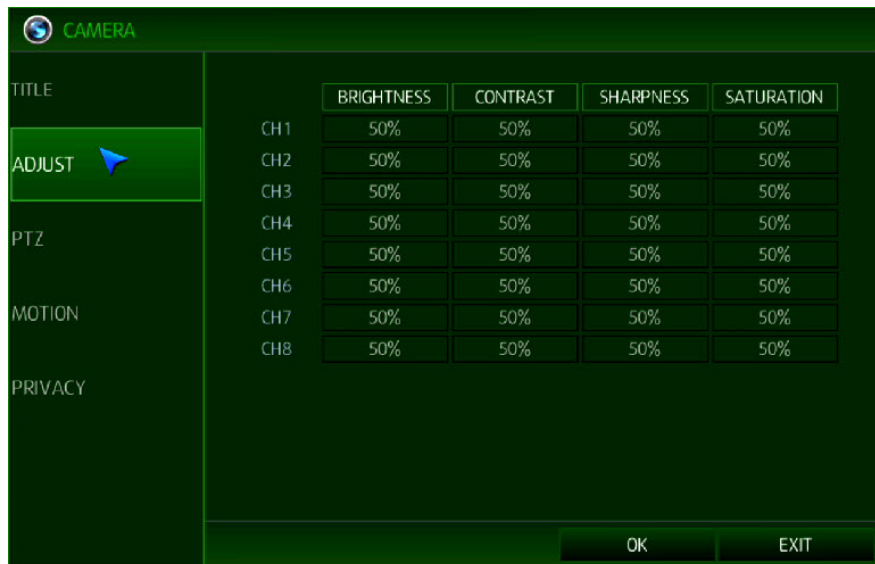
Double click under TITLE which camera (CH1~CH16) you would like to add a Title for



### 6.1.2 ADJUST

Choose the 'ADJUST' menu for setting of video features of camera. You can adjust the video features such as 'BRIGHTNESS', 'CONTRAST', 'SHARPNESS' and 'SATURATION' by clicking one of the values for the required channel. Refer to the following pictures.

- The range of the value for each setting is from 0 ~ 100. Refer to the following pictures.



### 6.1.3 PTZ



- ✚ ADDRESS: The unique ID of the PTZ device.
- ✚ PROTOCOL: The protocol of the PTZ device.
- ✚ BAUD RATE: The baud rate of the PTZ device.
- ✚ PTZ properties can also be adjusted for each channel by selecting the DETAIL .Auto Focus, Auto IRIS, P/T speed, zoom speed, focus speed, IRIS speed can all be adjusted
  - ⦿ Note that some settings, such as AUTO FOCUS, may not be compatible with particular PTZ equipment. If this is the case, changing this value will have no effect on PTZ control.





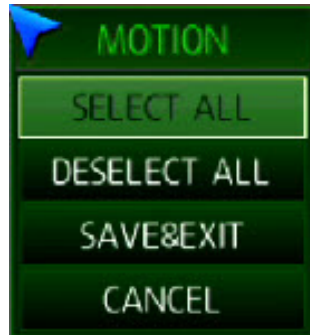
## 6.1.4 MOTION



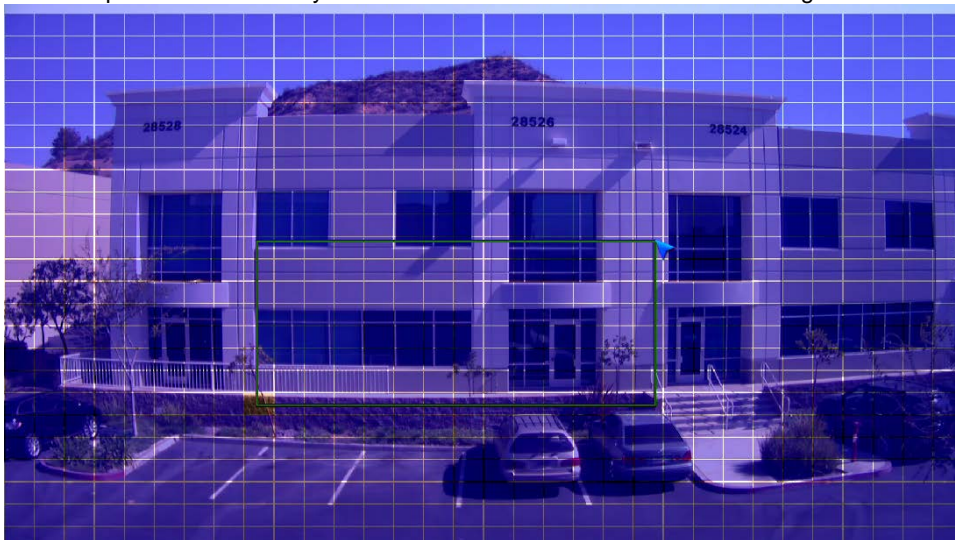
- ✚ **SENSITIVITY:** Between 1 (Lowest) and 10 (Highest) determines the degree of sensitivity of motion detection required.
- ✚ **AREA SETUP:** Choosing this option allows the operator to define which areas of the image are monitored for motion detection. Green grid squares represent detection areas, blank areas are ignored. The default is that motion will be detected across the entire image.



To quickly select or deselect the entire grid, use Right mouse click to bring up the motion menu.  
 To select or deselect specific areas, use the left mouse click. Clicking on each cell toggles the cell to be enabled or disabled.



By dragging with the left mouse button down, a rectangle area can be selected. Selecting 'SELECT ALL' or 'DESELECT ALL' after dragging will define the activity of the selected area. Refer to the below picture. Repeat the above sequence as necessary to mask-off or include other areas of the image



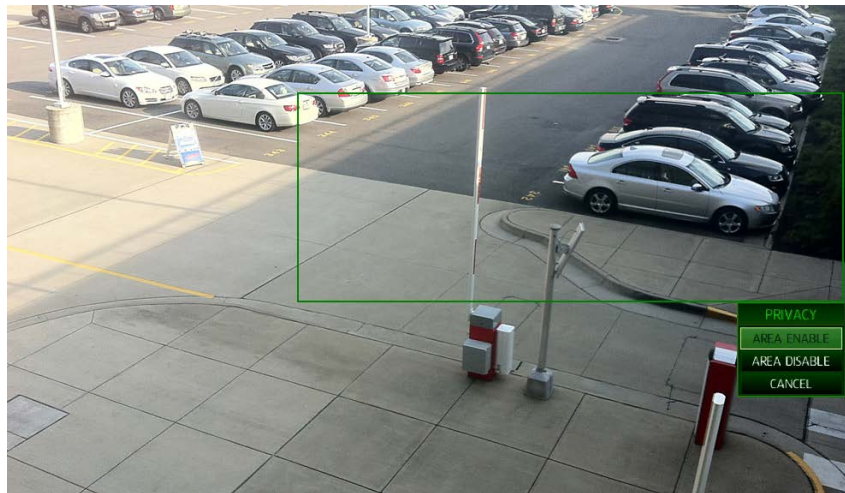
Once the detection area has been defined, choose SAVE &EXIT to save the area and return to the motion setup menu

### 6.1.5 PRIVACY



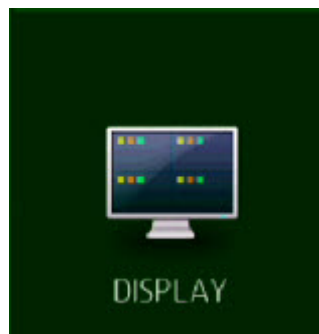
**AREA SETUP:** Choosing this option allows the operator to define which areas of the image

are monitored for privacy. Gray grid squares represent privacy areas, blank areas are ignored. The default is that privacy area will be detected across the entire image



## 6.2 CONFIGURING DISPLAY


To set-up the various display options, Left click on Display icon.



### 6.2.1 OSD

To set-up the various display options, click DISPLAY icon.  
Configure camera title / boarder/ language here.



 **TOOLBAR DISPLAY TIME:** Turns the Tool bar at the bottom of the live display ALWAYS ON

or auto off after display time.

- ✚ **CAMERA TITLE:** Determines whether the camera title is displayed.
- ✚ **RECORDING MODE ICON:** Determines whether the recording status is shown at the top right of each channel display window.
- ✚ **BORDER:** Determines whether there is a border around each channel in multi screen display mode.
- ✚ **BORDER COLOUR:** If the border is ON, you can choose the color.
- ✚ **EVENT ICON:** Determines whether the event (Motion, Alarm, V-loss) icon is displayed.
- ✚ **LANGUAGE:** Select the language of display.
  - ENGLISH / KOREAN / GERMAN / POLISH / JAPANESE / FINNISH / CHINESE / RUSSIAN

## 6.2.2 MONITOR

HYBRID-DVR's resolution / screen can be changed here.



- ✚ **ALARM POP-UP MODE:** When you set ON, an alarm input will cause the associated channel to display full screen.
- ✚ **ALARM POP-UP DWELL:** Determines how long the full screen popup is displayed after an alarm input.
- ✚ **MOTION POP-UP MODE:** When you set to ON, motion detection will cause the associated channel to display full screen.
- ✚ **MOTION POP-UP DWELL:** Determines how long the full screen pop-up is displayed after motion detection.
  - If motion continues, the popup screen is displayed constantly.
- ✚ **VIDEO OUTPUT RESOLUTION(MAIN VIDEO OUTPUT MODE) :** You can configure video output resolution of main video like 1024x768 / 1280x1024 / 720p / 1080P

- OK: press OK button to confirm configured video output.
- ◆ If monitor doesn't support HD resolution, then configure VGA resolution on HYBRID-DVR.
- ◆ In case HD resolution like 720p/1080p connecting with VGA cable, first connect VGA cable and power on for HYBRID-DVR.
- ◆ Factory default resolution is 1024x 768, so you should use monitor supporting at least **1024 x 768**.

### 6.2.3 SEQUENCE

Screen auto switch time can be configured here.



- ◆ SEQUENCE DWELL: The time that each screen is displayed in a sequence operation.
- ◆ SPOT SEQUENCE DWELL: The time that each screen is displayed in a SPOT sequence operation.

### 6.2.4 SPOT

Hybrid-DVR provides the single channel or Multi screen SPOT monitoring video output. In this menu page, you can configure the default channel for SPOT output.

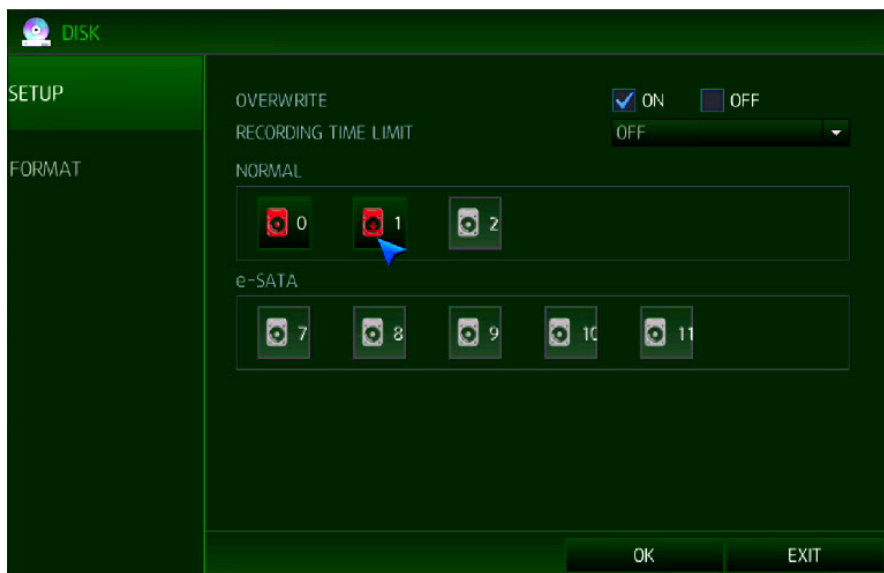
## 6.3 CONFIGURING DISK

HDD related configuration and operation can be configured here

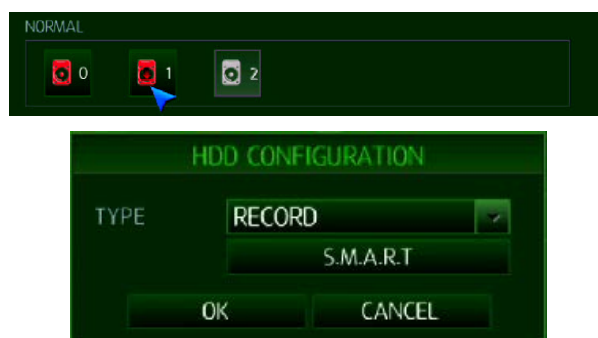


### 6.3.1 SETUP

You can configure DISK operation like Recording Time Limit / Overwrite / HDD Configuration.



- ✚ OVERWRITE: IF you select “ON”, overwrite mode will be activated.
- ✚ RECORDING TIME LIMIT: You can configure the data from current time to configured time (12hr – 2 month).
- ✚ Recording HDD setup: HDD connecting to HYBRID-DVR, can be configured as recording or mirroring, click Red marked HDD and configure operation mode and mark S.M.A.R.T.



- RECORD: You can select HDD as record HDD.
- MIRRORING: You can select HDD as mirroring HDD.
- S.M.A.R.T: You can view HDD's current condition

HDD S.M.A.R.T

HDD 1 S.M.A.R.T RESULT      S.M.A.R.T NOT SUPPORT

ENTRY	CURRENT	WORST	RAW	TYPE	UPDATE
RAW READ ERROR RATE	117	99	52134	Pre-fail	Always
SPINUP TIME	98	97	0	Pre-fail	Always
START / STOP COUNT	100	100	630	Old-age	Always
REALLOCATED SECTOR COUNT	100	99	29	Pre-fail	Always
SEEK ERROR RATE	72	60	56005	Pre-fail	Always
POWER-ON HOURS COUNT	90	90	8866	Old-age	Always
SPINUP RETRY COUNT	100	100	32	Pre-fail	Always
POWER CYCLE COUNT	99	99	1372	Old-age	Always
END TO END ERROR COUNT	100	100	0	Old-age	Always
REPORTED UNCORRECTABLE ERROR	100	100	0	Old-age	Always
REPORTED COMMAND TIMEOUTS	100	98	81	Old-age	Always
HIGH FLY WRITES	1	1	428	Old-age	Always
AIRFLOW TEMPERATURE	58	53	42	Old-age	Always
HDA TEMPERATURE	42	47	42	Old-age	Always
HARDWARE ECC RECORVED	57	38	52134	Old-age	Always
CURRENT PENDING SECTOR COUNT	100	100	0	Old-age	Always
UNCORRECTABLE SECTOR COUNT	100	100	0	Old-age	Offline
UDMA CRC ERROR RATE	200	200	6	Old-age	Always

- GOOD: It shows current HDD condition is good.
- BAD: It shows current HDD condition is bad.
- ❖ HDD's S.M.A.R.T information may not be supported depending on HDD.

## 6.3.2 FORMAT

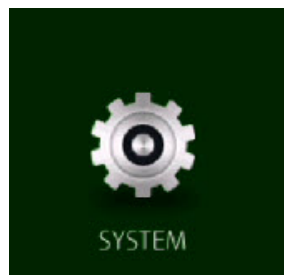


- ❖ HDD TYPE: You can select HDD type to format.
  - RECORD: format all HDD's selected as RECORD.


- MIRRORING: format all HDD's selected as MIRRORING.
- ✚ FORMAT: Format the selected HDD type.
- ✚ Device: In HYBRID-DVR, select USB connecting location to format.
- ✚ Device: Select USB processing
  - ◆ some USB memory stick and external hard drive cannot be used in HYBRID-DVR,
  - ◆ HYBRID-DVR support format function of USB memory stick and external hard drive
- ✚ FORMAT: You can format the USB Device..
  - ◆ HYBRID-DVR, HDD formatting time is different depending on recorded capacity.

## 6.4 CONFIGURING SYSTEM

System options, configuration and operation can be configured here



### 6.4.1 DATE/TIME

- ✚ DATE&TIME: Allows the operator to set or modify the current date & time.
  - ◆ After changing data/ time, be sure to press  to confirm
- ✚ DATE FORMAT: Determines how the date is displayed.
  - ◆ YYYY/MM/DD(Default), MM/DD/YYYY, DD/MM/YYYY



- ✚ TIME FORMAT: Determines how the time is displayed.
  - ◆ 24 Hour(Default), AM/PM
- ✚ NETWORK TIME SERVER SETUP: If the HYBRID-DVR is connected to the Internet, you can synchronize the time and date with sever.
  - ◆ Default Server: pool.ntp.org
- ✚ ADJUST PERIOD (INTERVAL): Configuration synchronize interval with Network Time server.
  - ◆ Network time server synchronization starts after HYBRID-DVR configure power on/operation interval setup.
- ✚ TIME ZONE SETUP: Should be set according to the region that the HYBRID-DVR is installed.
- ✚ D.S.T: When set to ON, the HYBRID-DVR will automatically adjust the time by one hour on the relevant date in spring and autumn
  - FROM: D.S.T Start time of DST
  - End : D.S.T End Time of DST

## 6.4.2 MANAGEMENT

HYBRID-DVR's system information/ firmware upgrade can be processed here.



- ✚ SYSTEM INFORMATION: Select INFO to display the following window.

SYSTEM INFO.	
F/W VERSION	1.08G1
H/W VERSION	WH-H3
UI VERSION	1.1.A.4
VIDEO SIGNAL TYPE	NTSC
HDD 0 (931 GB)	ST31000524AS /JC4B
HDD 1 (931 GB)	ST31000524AS /JC47
IP ADDRESS	192.168.1.200
MAC ADDRESS	00 0A 2F 00 2A FA
DDNS SERVER ADDR	kddns.icam.co.kr
DVR SERVICE PORT	9554
WEB SERVICE PORT	9077
FAN STATUS	5769 RPM
TEMPERATURE	52 °C / 125.6 °F

- F/W VERSION: Shows the firmware version of the HYBRID-DVR.
- H/W VERSION: Shows the hardware version of the HYBRID-DVR.
- UI VERSION : Shows the UI version of the HYBRID-DVR
- VIDEO SIGNAL TYPE: The HYBRID-DVR can be selected between PAL and NTSC via a selector
- HDD NUMBER: Shows the hard drive capacity installed.
- IP ADDRESS 1(Ethernet Port): Shows either the manual IP address entered in NETWORK setup or the IP address assigned by a DHCP server if enabled.
- IP ADDRESS 2(Local Port): Shows either the manual IP address entered in NETWORK setup or the IP address assigned by a DHCP server if enabled.
- MAC address 1(Ethernet port): show mac address configured by manufacturer.
- DDNS SERVERADDRESS: If DDNS is enabled, the host DDNS server is specified here.
- HYBRID-DVR SERVICE PORT: port number for HYBRID-DVR network operation
- WEB SERVER PORT: The port number that the HYBRID-DVR uses to support remote connections.
- FAN STATUS: Displays FAN Speed of HYBRID-DVR (RPM).
  - ◆ If cooling fan's speed is lower than certain level, an alarm will occur.
  - TEMPERATURE: Display internal temperature of HYBRID-DVR (°C/°F).
- ✚ SYSTEM NAME: A system name of up to 15 characters can be defined. It is used so that notification emails can be identified.
- ✚ F/W UPGRADE: Firmware updates may be released periodically to enhance system performance and add extra features. The operator can upgrade the firmware using a USB memory stick.
- ✚ FACTORY DEFAULT: If settings have been changed which causes erratic behavior, the factory default settings can be loaded.
- ✚ SYSTEM DATA: System settings can be saved to a USB memory stick. The settings can be reloaded in case of accidental factory reset or can be transferred to another HYBRID-

DVR.

- ✚ VIDEO STANDARD: You can select Video Signal and selected video signal will be adapted as main value automatically.

- If you change the video signal, reboot HYBRID-DVR .

- ✚ AUTO LOGIN (PASSWORD): Selects if a password is required 'ON / OFF'.

- Note) Password must be selected to 'ON' if USER MANGEMENT options are required.

### 6.4.3 AUDIO



- ✚ LIVE AUDIO: If you select "on", Audio output is available in Live mode.
- ✚ DEFAULT AUDIO CHANNEL: Specify which one of the 4 AUDIO INPUTS is routed to the AUDIO OUTPUT.
- ✚ FRONT PANEL KEYPRESS: When set to ON, each front panel button press is confirmed by a beep. This setting will also turn the IR Remote confirmation beep on or off .
- ✚ AUDIO 1 ~ 4 ASSIGN: select which Audio channel will sync with which Video channel.

## 6.5 CONFIGURING EVENT / SENSOR

Configure Event activation like Alarm Input / Alarm Output / Buzzer Out / E-Mail / PTZ Pre-set.



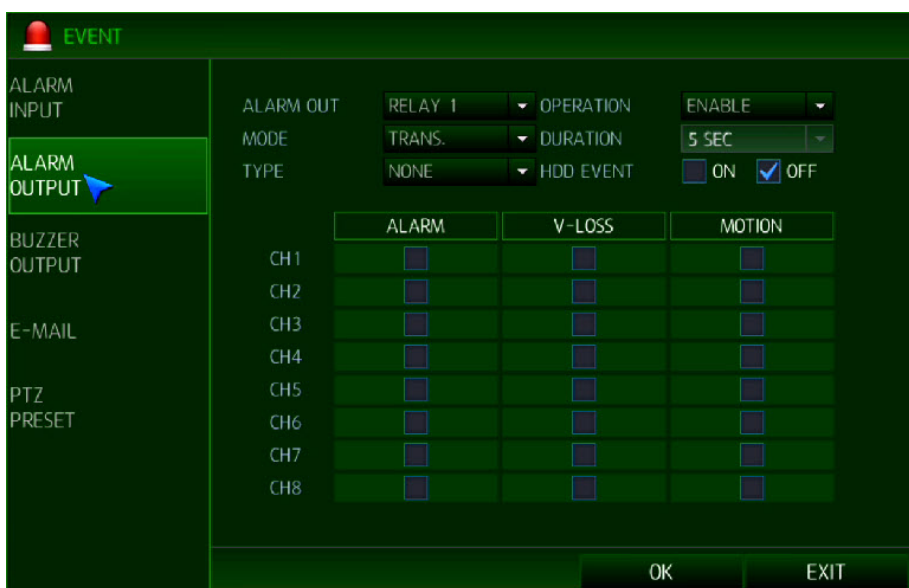
### 6.5.1 ALARM INPUT



Configure Alarm input .

- ✚ OPERATION: You can configure activation when Sensor is triggered.
  - DISABLE: When Sensor input is triggered, Event is not working.
  - ENABLE: When Sensor input is triggered, Event is working.
- ✚ TYPE: If the operation is enabled.
  - N/O: Normal Open is Sensor's normal status
  - N/C: Normal Close is Sensor's normal status.
- ✚ TEXT: You can name the event

### 6.5.2 ALARM OUTPUT SETUP



- ✚ ALARM OUT : You can select Relay to be configure
- ✚ OPERATION: You can configure output status of Relay.
  - DISABLE: Relay is not working
  - ENABLE: Relay is working once event is triggered.
- ✚ MODE: You can configure activation of Relay output.
  - TRANSPARENT: Keep Relay output until event triggering stopped.
  - LATCHED: Keep relay output for duration time from the event triggered lately.
- ✚ DURATION: If the alarm output mode is configured as Latched. You can configure duration time for relay output.
- ✚ TYPE : Define the transition of the signal of Alarm output
  - N/O (Active Low): When event triggered, the relay will go to 'Close' state from 'Open'.
  - N/C(Active High): When event triggered, the relay will go to 'Open' state from 'Close'
- ✚ HDD EVENT: If you select "ON", when HDD related Event is triggered, relay will trigger
- ✚ ALARM: When sensor input, relay output will trigger.
- ✚ VIDEO LOSS: When video loss occurs, replay output will trigger.
- ✚ MOTION: When motion triggered, replay output will trigger.

### 6.5.3 BUZZER OUTPUT SETUP



- ✚ OPERATION: You can configure the output status of Buzzer.
  - DISABLE: Buzzer is not working when event is triggered.
  - ENABLE: Buzzer is working when event triggered.
- ✚ HDD EVENT: If HDD related event is triggered, Buzzer output will trigger.

- ✚ MODE: You can configure operation mode of Buzzer output.
  - TRANSPARENT: Keep buzzer output until event operation has stopped.
  - LATCHED: Keep buzzer output for the duration time of event.
- ✚ DURATION: You can configure duration time for buzzer output in latched mode.
- ✚ ALARM: When sensor input, buzzer output will triggered.
- ✚ VIDEO LOSS: When video loss occurred, buzzer output will triggered.
- ✚ MOTION: When motion triggered, buzzer output will triggered.

### 6.5.4 E-MAIL SETUP



- ✚ NOTIFICATION: If you select “ON”, E-mail will be sent when event is triggered.
- ✚ SETUP CHANGE: If you select “ON”, E-mail will be sent when menu configuration is changed.
- ✚ HDD EVENT: If you select “ON”, E-mail will be sent when HDD related event is triggered.
- ✚ BOOT EVENT: If you select “ON”, E-mail will be sent when HYBRID-DVR boot-up.
- ✚ ALARM: E-mail will be sent, when sensor is triggered.
- ✚ VIDEO LOSS: Email will be sent, when video loss occurred.
- ✚ MOTION: Email will be sent, when motion triggered.
- ✚ FREQUENCY: You can configure E-Mail notification period.

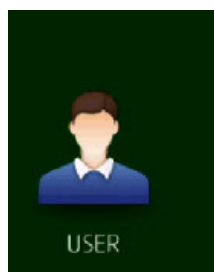
## 6.5.5 PTZ PRESET



- ✚ PTZ CAMERA: Select the PTZ camera for the following configuration to be applied.
- ✚ OPERATION: You can configure the operation of PTZ Preset, when event is triggered.
- ✚ DISABLE: PTZ preset is not working
- ✚ ENABLE: PTZ preset is working.
- ✚ ALARM PRESET: You can configure Preset when Sensor is triggered.
- ✚ V-LOSS PRESET: You can configure Preset when Video loss has occurred.
- ✚ MOTION PRESET: You can configure Preset, when motion is triggered.

## 6.6 CONFIGURING USER

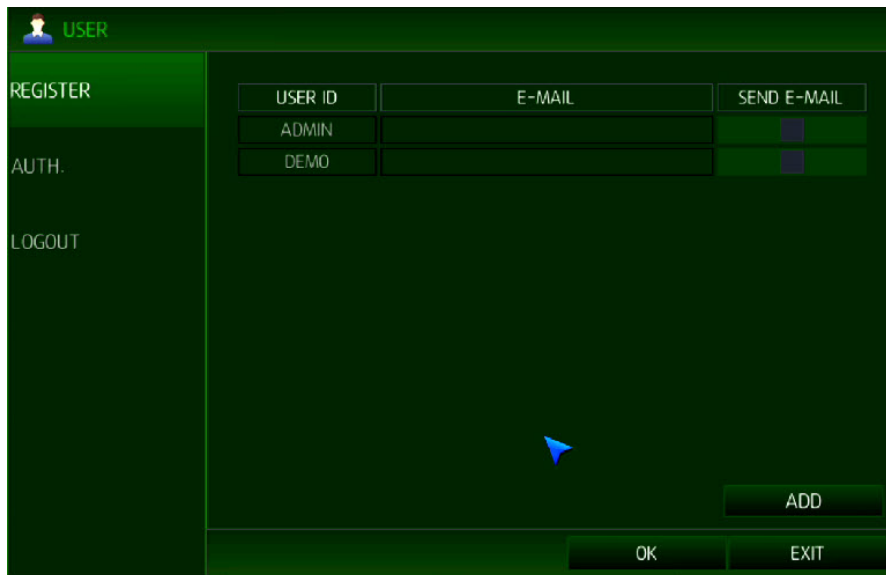
Configure User Authority options,



### 6.6.1 USER REGISTER

By default, the HYBRID-DVR is configured with a USER ID of ADMIN belonging to the ADMIN group and with a password of 1234.

Using this, max 10 user account can be registered and configured authority separately.



To modify user details, highlight the user with the blue cursor. The EDIT screen appears.



- ✚ USER ID: Edit the user ID using the virtual keyboard. (Max 10 characters).
- ✚ PASSWORD: Change the password using the virtual keyboard. (Max 8 characters)
  - ◆ Note: To delete the existing password, use the **CLEAR** on the virtual keyboard.
- ✚ E-MAIL: Enter the user's email address if email notifications are required.
- ✚ E-MAIL SEND: Enable or disable email notification for the particular user.
  - ◆ Note) Maximum 10 users can be registered.
  - ◆ NOTE) Any user can be deleted except the default ADMIN user.

## 6.6.2 USER AUTHORITY

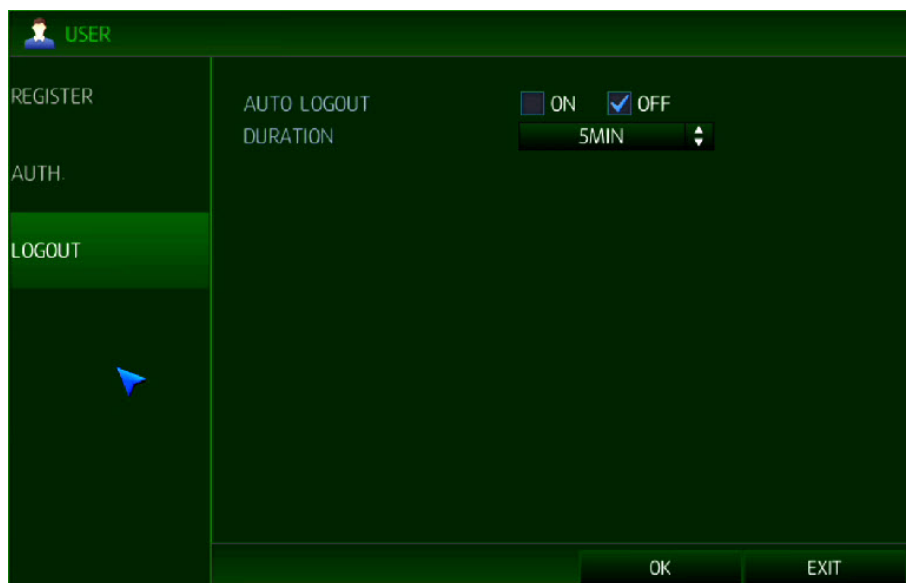




User authority (except ADMIN) can be selected.

- Search & Play : Right to enter Search Menu/ Instant Play
- Copy : Right to enter backup menu
- PTZ Control: Right to control PTZ's
- Power OFF : Right to Power Off unit
- Camera: Right to see camera screen.
  - Detail: to select which cameras the user can view.

### 6.6.3 LOG-OUT

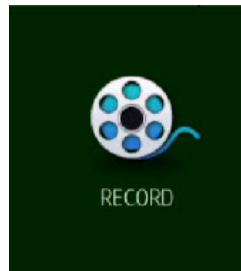


- AUTO LOGOUT: Select if auto log-out is ON or OFF.
- DURATION: If auto log is set to ON, this determines the time. ( 1 - 10 Min)



## 6.7 CONFIGURING RECORD

Configure various recording options



### 6.7.1 SETUP



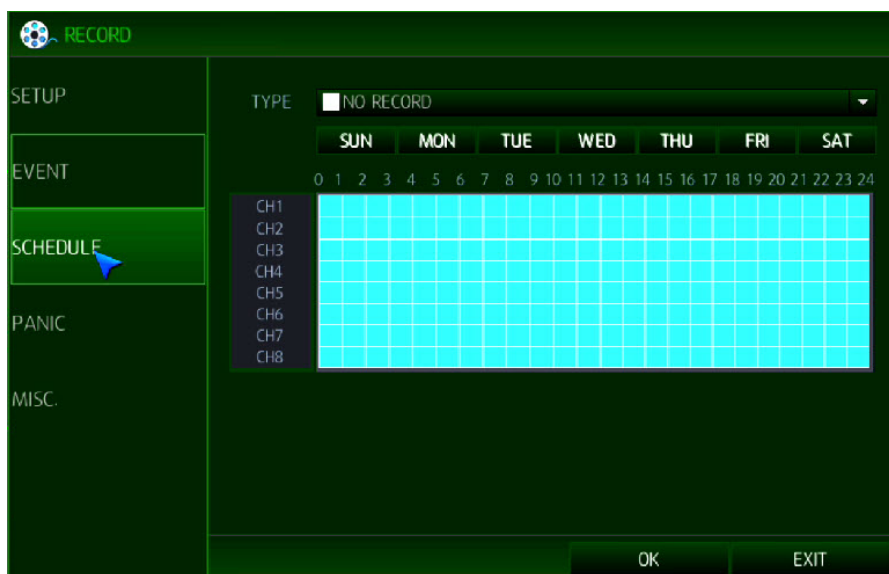
- SIZE: You can select what resolution of video will be recorded as follows.
  - Resolution: FULL HD(1080p) : 100% : 1920x1080 / 50% : 1920x544 / 25% : 960x544
  - HD(720p) : 100% : 1280x720 / 50% : 1280x360 / 25% : 640x360
  - Analog(SDI) : 100% : 944x480 / 50% : 944x240 / 25% : 472x240
  - ALL: Set the resolution for all channels
- ✚ FPS: You can select recording frame rate as 0 / 1 / 2 / 4 / 5 / 8 / 10 / 15 / 30 in NTSC mode or 0 / 1 / 2 / 4 / 5 / 7 / 10 / 13 / 25 in PAL mode.
- ✚ QUALITY : You can select 5 recording video qualities; Low / Standard / High / Highest / Super
  - LOW : 2Mbps / Standard : 3Mbps / High : 4Mbps / Highest : 5Mbps / Super : 6Mbps
  - AUDIO: Audio: If you select "ON", audio data will be recorded.

## 6.7.2 EVENT



- ✚ MOTION EVENT: You can configure recording condition when motion is triggered.
- ✚ ETC EVENT: You can configure recording condition for Alarm / V-Loss.
  - FPS: NTSC: You can configure frame rate as 0 / 1 / 2 / 4 / 5 / 8 / 15 / 30 in NTSC Mode or 0 / 1 / 2 / 4 / 5 / 7 / 13 / 25 in PAL mode.
  - QUALITY: You can select 5 recording video qualities Low / Standard / High / Highest / Super.
  - Audio: If you select "ON", audio data will be recorded.
- 🔴 Recording resolution for the event record mode follows the size in the CONTINUOUS record setting.

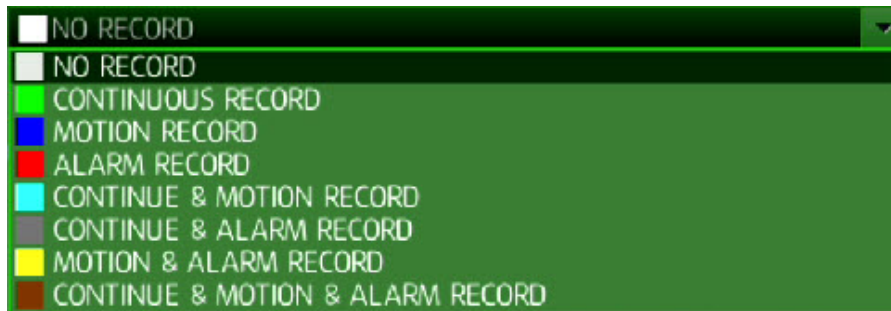
## 6.7.3 SCHEDULE



You can configure schedule recording mode as Day / Week.

- 🔴 Daily: set up one schedule and apply to every day.
- 🔴 Weekly: set up 7 schedules from Monday to Sunday, and use it for every week.
- 🔴 Select daily ,weekly in menu(record-> MISC)

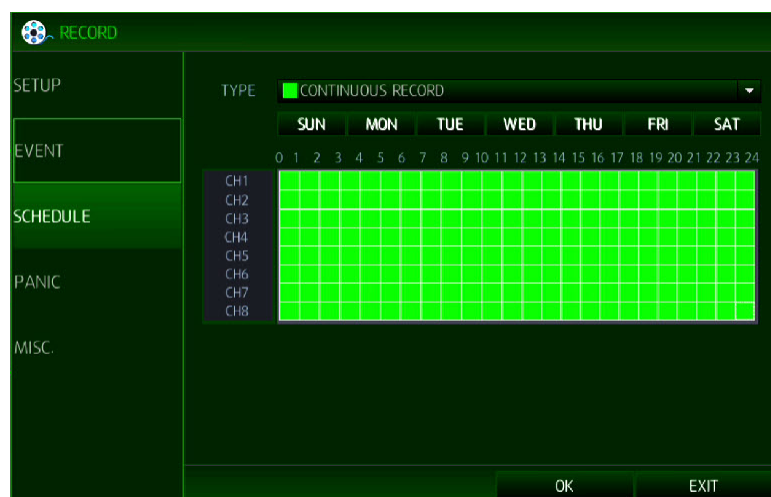
- ✚ DAYLY: You can configure the recording type by an hour and by channel. This mode is for the demand that all days have the same recording schedule regardless of the day of the week.
- ✚ WEEKLY: In this mode, you can configure the recording type by an hour, and by channel and by the day of the week. This mode is suitable for the user who wants to configure a separate schedule according to the day of the week.
- ✚ TYPE: You can select recording mode out of 8 modes. Refer to the below picture



- No record.
  - Continuous record
  - Motion record.
  - Alarm record
  - Continuous & Motion Record
  - Continuous & Alarm Record
  - Motion & Alarm Record
  - Continuous & Motion & Alarm Record
- ◆ Note) You can enable Day or Week recording mode in the configuration of 'MISC' menu
  - ◆ Note) you can configure schedule time table by drag using left mouse button.

## 6.7.4 PANIC

During panic recording mode, the Hybrid-DVR will override all other recording settings and record continuously on all channels at the settings configured here.



- ✚ SIZE: You can select what resolution of video will be recorded as follows;
  - ✚ Resolution: FULL HD(1080p) : 100% : 1920x1080 / 50% : 1920x544 / 25% : 960x544
  - ✚ HD(720p) : 100% : 1280x720 / 50% : 1280x360 / 25% : 640x360
  - ✚ Analog(SDI) : 100% : 944x480 / 50% : 944x240 / 25% : 472x240
- ALL: Set the resolution for all channels
  - ✓ The resolution setting value is represented with the ratio of the input resolution to the recording resolution because there could be mixed connection with 720p camera and 1080p camera inputs.
  - ✓ 25%: 480x270 for 1080p input, 320x180 for 720p input
  - ✓ 50%: 960x540 for 1080p input, 640x360 for 720p input
  - ✓ 100%: 1920x1080 for 1080p input, 1280x720 for 720p input

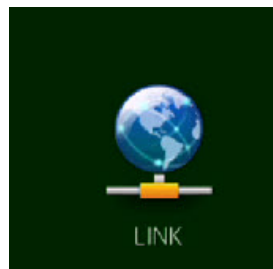
## 6.7.5 MISC



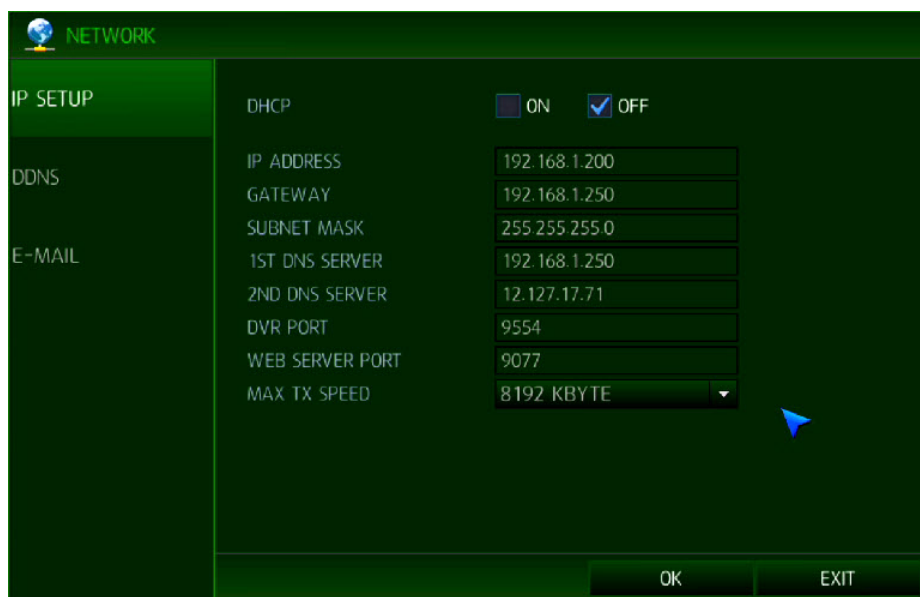
- ✚ SCHEDULE MODE: Either DAILY (one schedule will apply to every day of the week) or WEEKLY (each day of the week has its own schedule).
- ✚ PRE-EVENT RECORDING TIME: When the HYBRID-DVR is not in continuous recording mode, this setting determines the amount of footage that is always recorded before an event occurs (VA, motion detection, alarm input etc.)
- ✚ POST-EVENT RECORDING TIME: You can configure how long the system keep recording after an event is triggered.
- ✚ Mirroring: You can enable mirroring recording mode.
  - ON: Select to enable mirroring recording.
    - ✓ EVENT: Just event data will be recorded to mirroring HDD.
    - ✓ ALL: Same data will be recorded to mirroring HDD same as current recording data.
  - OFF: Mirroring recording off

- ✚ SELECT CHANNEL FOR MIRRORING: You can check which channel will be recorded to mirroring HDD.
  - All: all channel with mirroring record.
  - Channel 1~16: selected channel to record with mirroring.

## 6.8 CONFIGURING NETWORK



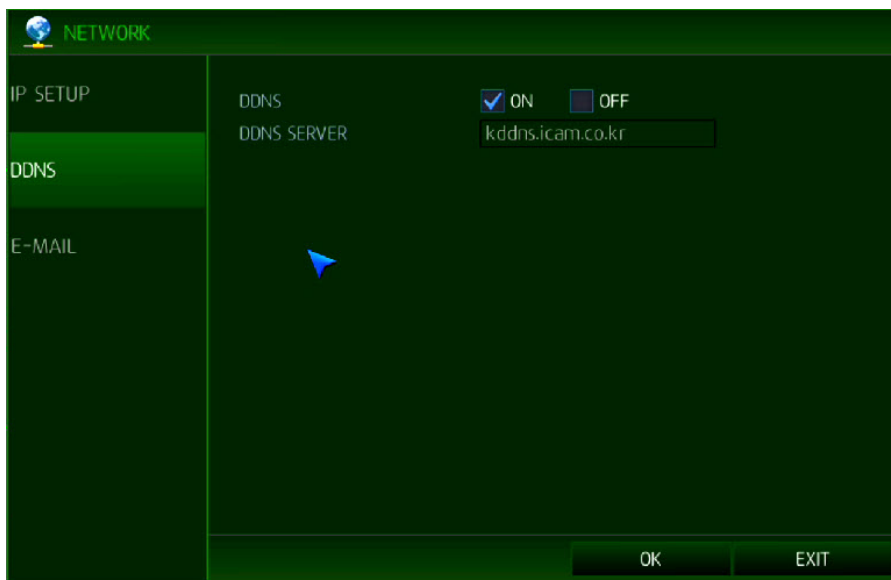
### 6.8.1 IPSETUP



- ✚ DHCP: When selected the HYBRID-DVR will obtain an Ethernet IP address automatically if connected to a DHCP server or router.
- ✚ IP ADDRESS: If DHCP is not being used the IP address can be manually set.
- ✚ GATEWAY: If DHCP is not being used the Gateway can be manually set.
- ✚ SUBNET MASK: If DHCP is not being used the subnet mask can be set manually.
- ✚ 1ST DNS SERVER: If DHCP is not being used the 1st DNS server can be manually set.
- ✚ 2ND DNS SERVER: If DHCP is not being used the 2nd DNS server can be manually set.

- ✚ HYBRID-DVR PORT: The port number that the HYBRID-DVR uses to support to the remote software.
- ✚ WEB SERVER PORT: The port number that the HYBRID-DVR uses to support remote connection from Internet Explorer or other web browsers.
  - ◆ Using Internet router, If connecting more than one HYBRID-DVR, you should configure service port and web service port differently.
- ✚ MAX TX SPEED: Specifies the maximum bandwidth that the HYBRID-DVR can use during a remote connection.
  - ◆ Note) Both HYBRID-DVR& WEB SERVER PORT will need a firewall rule creating for remote Connection
  - ◆ Note) uPNP (Auto Port Forwarding) is always activated in background.
  - ◆ Note) Upnp function for automatic forwarding setup might not be compatible depending on router and hub, in this case user should configure port forwarding properly.

## 6.8.2 DDNS



- ✚ DDNS: When enabled the HYBRID-DVR can be accessed through a dynamic DNS server. Commonly used if a broadband connection does not have a static IP address.
- ✚ DDNS SERVER: DDNS server Name.

## 6.8.3 E-MAIL





- ✚ USE DEFAULT SERVER: Selects On or OFF. If you turn Default sever ON, mail will be sent by our own mail server (mail sever).
- ✚ SERVER: The SMTP outbound email server that should be used to send email notifications.
- ✚ PORT: The outbound email port number.
- ✚ SECURITY: Set to OFF if the SERVER does not require a username and password to connect.
- ✚ USER: Enter a username to identify the HYBRID-DVR in email messages.
- ✚ PASSWORD: If SECURITY is set to ON, enter the password here.
- ✚ FROM: Input an email address or text.
- ✚ TEST E-MAIL: Send a test e-mail with the specified server information to verify the delivery.
- ✚ Test: it is to confirm that Pre-set email is right. Test email is transmitted using pre-set information.

◆ To use email function, you have to configure 'user's menu' and 'event/sensor menu → email menu'.

## 7. REMOTE

### 7.1 WEB SERVER

The On cue HYBRID-DVR prepares the web server internally. This server consists of two services. One is for the remote configuration of the DVR setup and the other is for the client viewer (based on Active-X). Using the remote configuration, you can configure all of the features of the DVR. Using the WebViewer, you can view live video, search, and PTZ controls can be served by the 'WebViewer'.

The table below shows the recommended PC specification for the proper operation.

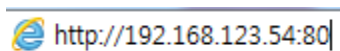
#### [Minimum & Recommended Specification of PC]

	Minimum	Recommended
Operating System	Windows XP	Windows 7
CPU	Core2Duo @2.53GHz or Equivalent	Core i5 @3.3GHz or Higher
Memory	1 GB	2 GB
Video Card Memory	512MB	512MB
HDD Capacity	50MB	2GB
VGA Resolution	1280x1024x16	1920x1080x32
Direct-X	DirectX 7.0	DirectX 9.0c
Network	Ethernet 10/100B-TX	

### 7.1.1 CONNECT TO WEB SERVER

Enter the IP address of HYBRID-DVR into the ULR bar referring to the below picture.

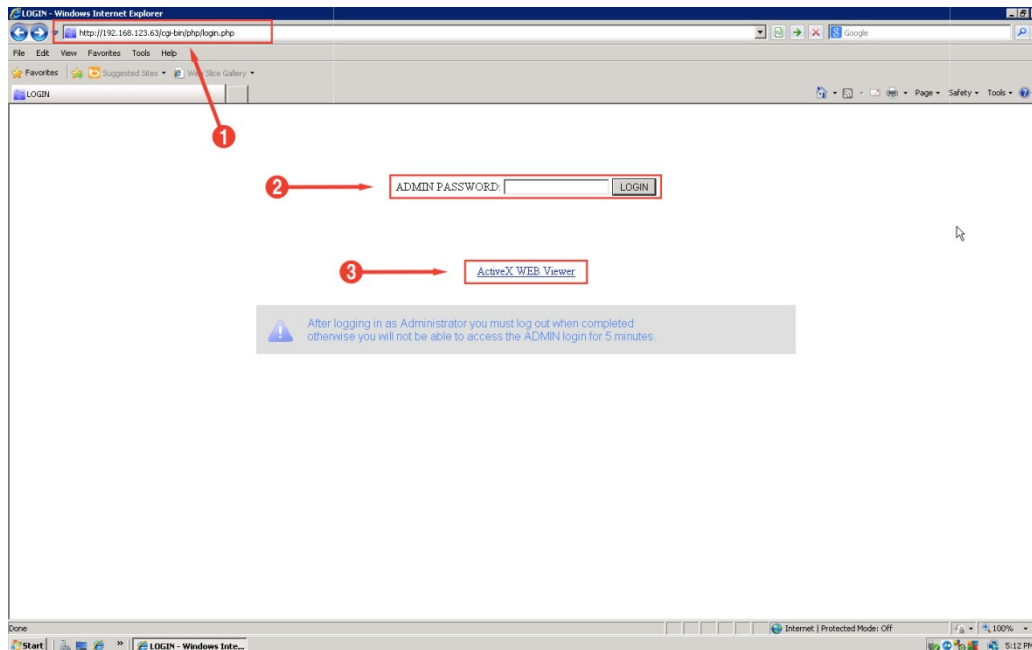
Enter the IP address of On Cue HYBRID-DVR into the ULR bar referring to the below picture.



- LOCAL NETWORK ACCESS:** To find the IP address of the DVR, go to the 'INFO' section under the SYSTEM/MANAGEMENT of the DVR's menu. If you are on the same network as the DVR, you can use the DVR's IP address to access it.
- REMOTE NETWORK ACCESS:** To access the DVR from a remote network, you need to use the WAN IP address of the network the DVR is connected to. (Sometimes this address is referred to as the LIVE, PUBLIC, or OUTSIDE IP). In order to view your DVR remotely you MUST port forward BOTH the DVR PORT and the WEB SERVER PORT. To find the DVR and Web Server ports, go to the [NETWORK SETUP](#) page.

If you need assistance with port forwarding, please visit our website and review our tutorial videos: <http://vitekccctv.com/videotutorials.asp>. If you need further assistance, please reference your router's manual or contact your Network Administrator/IT Professional. If your router supports the 'uPNP' feature, there is no need to manually configure 'Port Forwarding' because the DVR supports the 'Auto Port Forwarding' function using the 'uPNP' protocol.

[The initial screen of Web Server]



- ✚ 1: Enter the IP address of your On Cue HYBRID-DVR. If you don't use the default port number of HTTP, 80, you may add the port number following the IP address. Ex. http://192.168.123.63:80
- ✚ 2: Input the administrator's password beside of the 'ADMIN PASSWORD'. Only administrator can log in for the On Cue HYBRID-DVR configuration. Clicking the 'LOGIN' button will guide you to the On Cue HYBRID-DVR configuration pages.
- ✚ 3: ActiveX based Web Viewer: Clicking the link execute the 'WebViewer' or initiate the installation of ActiveX plugin.

## 7.1.2 WEB CONFIGURATION PAGE

In the web configuration page, you can set the On Cue HYBRID-DVR operations remotely.

### Tested Web Browser List

- ◆ Microsoft Internet Explorer®
- ◆ Mozilla Firefox®
- ◆ Google Chrome Browser®
- ◆ Opera Browser®
- ◆ Apple Safari®

### Features

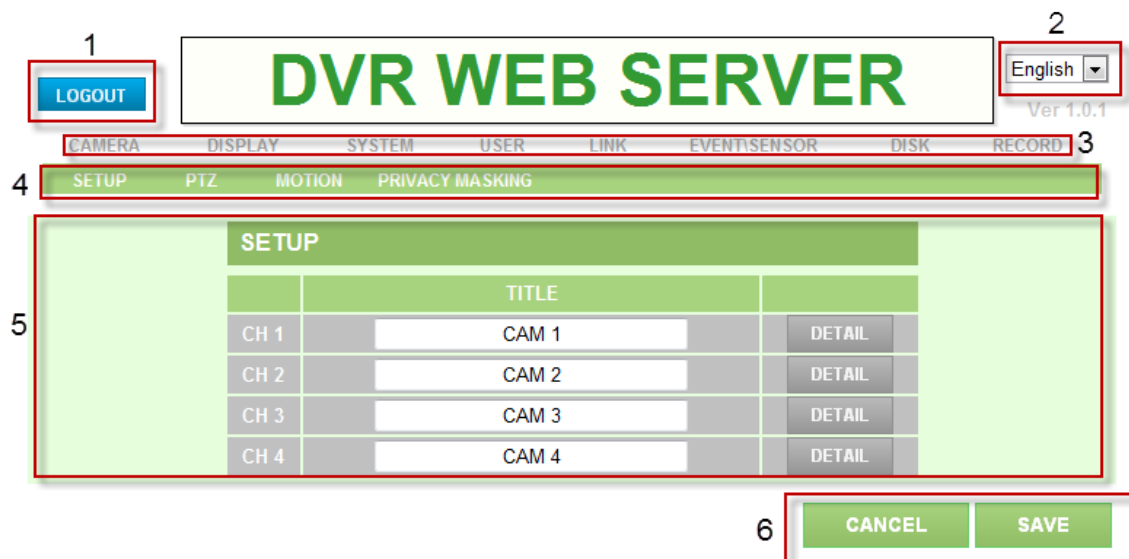
- ✚ Configuring the On Cue HYBRID-DVR setup remotely

After entering the ADMIN password and clicking 'LOGIN', you can navigate to the page where you can configure the setup menu of On Cue HYBRID-DVR.

ADMIN PASSWORD:

- ◆ NOTE) Default Password for ADMIN: 1234
- ◆ NOTE) Only ADMIN account can access the menu configuration pages.
- ◆ NOTE) When no operation more than 5 minutes is, the configuration page will be logged out automatically.

### 7.1.2.1 Initial Page of Web Configuration



- ✚ 1: Log out from the configuration page
- ✚ 2: version number of this web configuration
- ✚ 3: Top menu of On Cue HYBRID-DVR
- ✚ 4: Sub menu of On Cue HYBRID-DVR
- ✚ 5: Setting or Information section
- ✚ 6: Cancel or applying the modification
- ✚ CANCEL : Ignore any modification and the settings are restored to the previous setting
- ✚ SAVE: The modified setting is applied to On Cue HYBRID-DVR and saved
- In order to apply or save, you should click the 'SAVE' button. Otherwise all the changes will be lost.

For more details of the DVR configuration, please refer to the '[5.HOW TO CONFIGURE](#)' section of this manual. Clicking any of the following links will guide you to the proper section which explains each setup.

- ✚ [CAMERA](#)
- ✚ [DISPLAY](#)
- ✚ [SYSTEM](#)
- ✚ [USER](#)
- ✚ [NETWORK](#)
- ✚ [EVENT / SENSOR](#)
- ✚ [DISK](#)
- ✚ [RECORD](#)

- Live View, Search, Playback & Copy functions are not supported from the web server. To use these, please use the 'Web Viewer' instead.

### 7.1.3 WEB VIEWER (Active-X)

Through the 'Web Viewer', you can see the live, search and playback of recordings in the DVR and copy the recordings from the On Cue HYBRID-DVR.

#### Tested Web Browser

- ✚ Microsoft Internet Explorer®
- ✚ Mozilla Firefox®
- ✚ Google Chrome Browser®

#### Features

- ✚ The 'Web Viewer' is based on the ActiveX
- ✚ Monitor live, preview videos from the On Cue HYBRID-DVR.
- ✚ Search & Playback of the recorded video in the On Cue HYBRID-DVR
- ✚ Copy the recorded data from the On Cue HYBRID-DVR to the PC remotely
- ✚ PTZ camera control

#### 7.1.3.1 Installation and Execution

##### [Microsoft IE]

Click the 'ActiveX WEB Viewer' to initiate the installation of the 'Web Viewer' (if not installed previously). If the 'Web Viewer' is installed already in your IE browser, clicking 'ActiveX WEB Viewer' will launch the WEB Viewer.

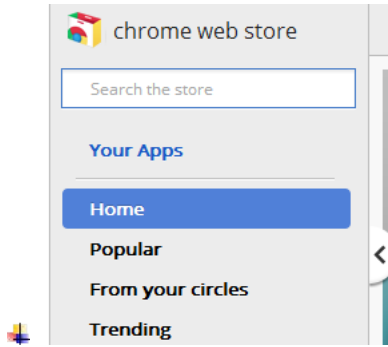
#### [ActiveX WEB Viewer](#)

- NOTE: To install properly, connect your PC to the internet.
- NOTE: 'Web Viewer' is certificated with the name 'NEOXENTEC SYSTEMS CO.LTD', who designs the application.
- NOTE: The first execution of 'Web Viewer' will install the application first.
- NOTE: If a new updated version of 'Web Viewer' is found, updating starts automatically before execution.

##### [Google Chrome]

In order to execute the ActiveX plugin, you have to install the 'IE TAB' from the Google web store. Please see the following steps:

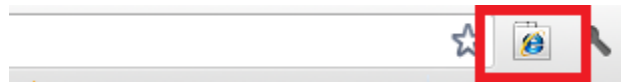
- ✚ Execute the Chrome browser
- ✚ Go to <https://chrome.google.com/webstore/category/home>
- ✚ Enter the word 'IE TAB' into the 'Search the store' box and press enter.




✚ ‘Searching’ shows the results such as below.



✚ Click the ‘ADD TO CHROME’ and then you can see the IE symbol on the right side of URL Bar



There are two ways to execute the ‘Web Viewer’ from the Chrome.

1. Click the ICON(  ) on the right side of URL bar. It opens new URL bar to get the URL. Entering the required IP address of On Cue HYBRID-DVR will connect the web server.
2. Just entering the IP address of On Cue HYBRID-DVR into the URL bar of Chrome and press enter

### [Mozilla Firefox]

In order to execute the ActiveX plug-in, you have to install the ‘IE TAB’ from the add-on page of Firefox. Please see the following steps:

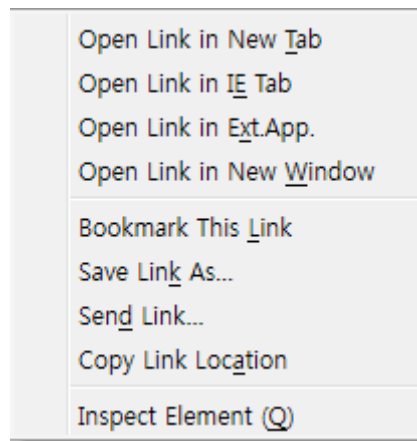
- ✚ Execute the FireFox browser
- ✚ Go to the <https://addons.mozilla.org/en-US/firefox/addon/ie-tab>. And then the following page will show the way to install the ‘IE TAB’.



✚ Click the ‘Add to Firefox’ will enable supporting Active-X plugin.

Way to execute the ‘Web Viewer’ from the Firefox

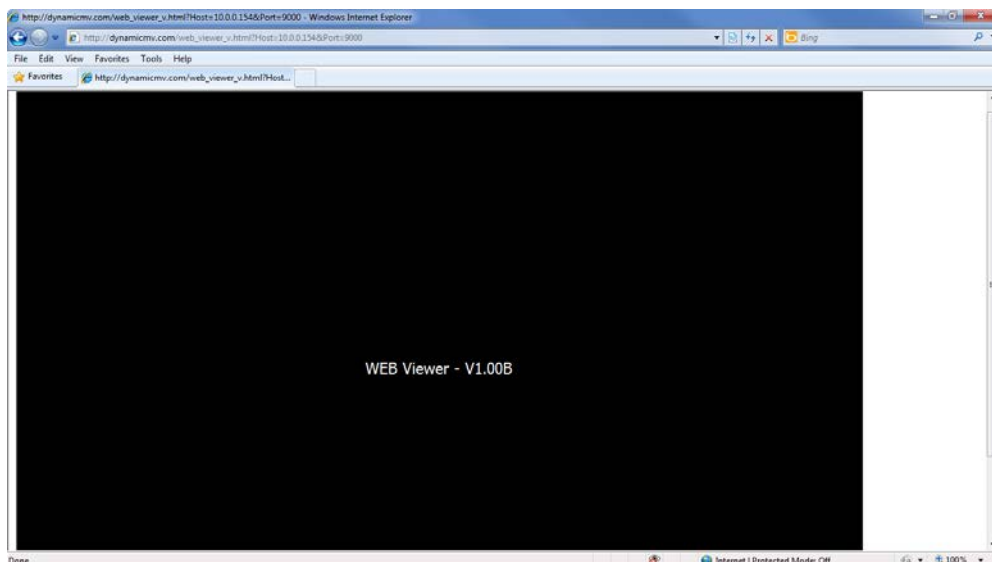
- ✚ Enter the IP of On Cue HYBRID-DVR into the URL bar of Firefox.
- ✚ Right-click the link ‘AcitveX WEB Viewer’ will show the pop-up menu such as below.



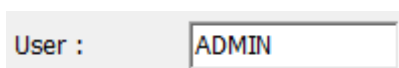
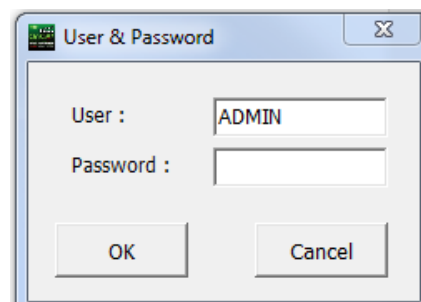
- ✚ Select the 'Open Link in IE TAB'. ActiveX
- ✚ First execution will install the ActiveX plug-in. And the application will be executed if installed already.

### 7.1.3.2 Initial Screen of Web Viewer

Executing the 'Web Viewer' opens the application in a separated window from the web browser and display the login window (see image below)



### 7.1.3.3 Log In



: Enter the USER name of registered in the On Cue HYBRID-DVR

Password :

: Enter the password for the selected user.

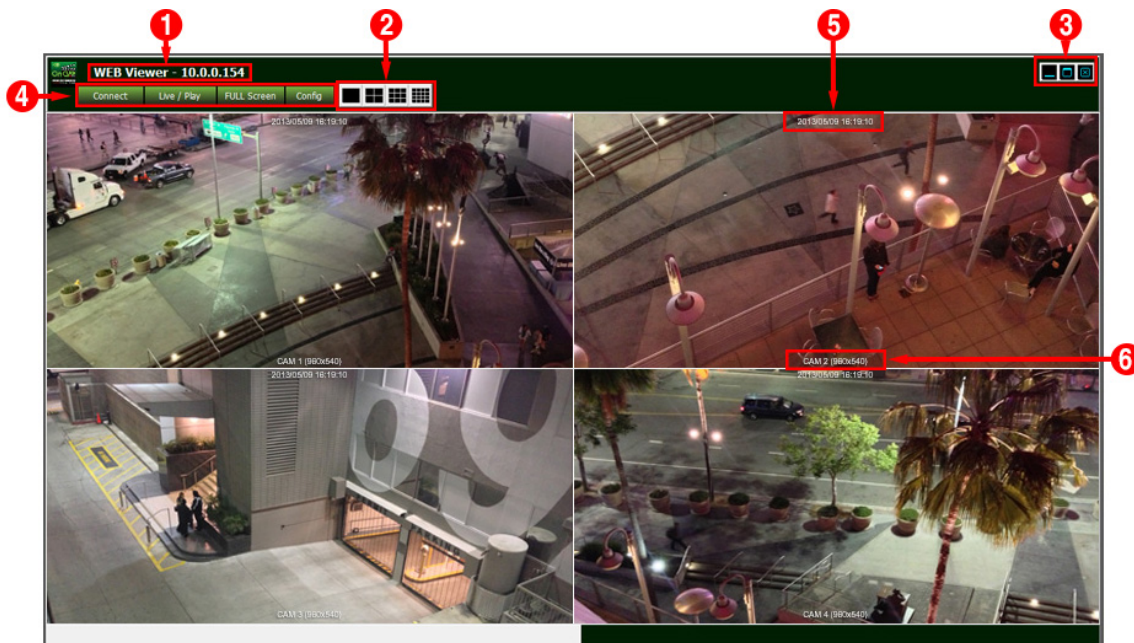
- The user authority functions (live view, search & playback, PTZ control, etc.), are controlled by the [USER AUTHORITY](#) settings in the DVR menu.
- USER ID and Password are case-sensitive.

### 7.1.3.4 Live Preview

After login, the live preview screen will be shown such (see below).

#### Features


- User log-in/out feature (RECONNECT)
- Monitoring the live view
- Snapshot and save as JPEG
- Control the resolution and quality of video stream



- The colored rectangle around video shows the currently selected camera

- 1: IP of On Cue HYBRID-DVR connected remotely

- 2: display split mode selection



➤  : Single camera view

➤  : Quad split view


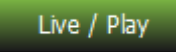
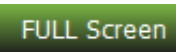

- 3: WEB Viewer Minimize/Maximize/Close

➤  : Minimize the window



-  : Maximize the window
-  : Exit the 'Web Viewer'

#### 4: Reconnect/Live & Search / Full Screen

-  : Log out and Reconnect
-  : Switching between the live and search & playback
-  : Full screen video view. Press 'ESC' to return to the window
-  : Set the default save location for JPEG/AVI

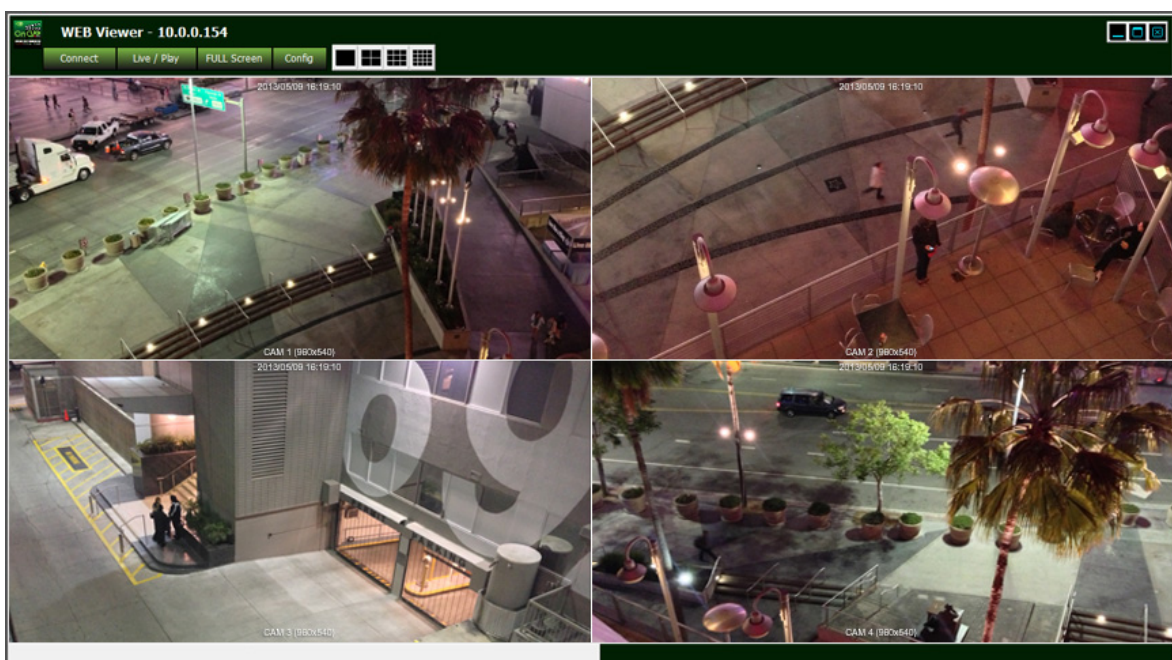
#### 5: Date & Time of Camera transferred from the On Cue HYBRID-DVR

#### 6 : Channel Title and the resolution of the transferred video

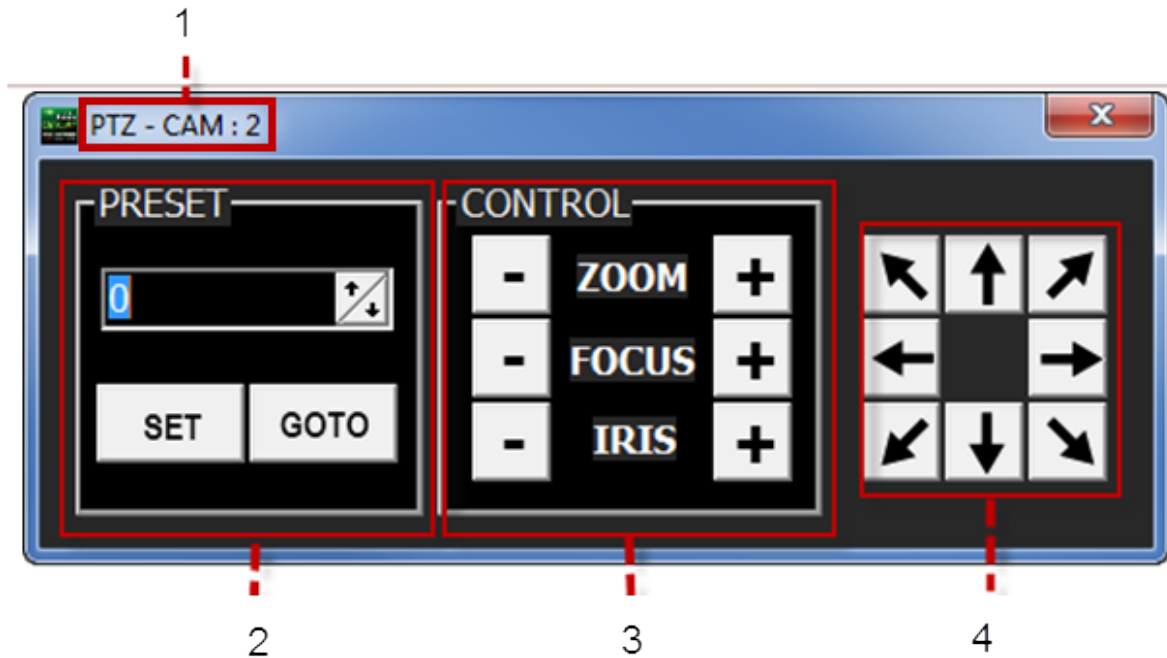
- Resolution Steps for HD SDI DVR:
  - ✓ 720p Camera: 1280x720 / 1280x360 / 640x360 / 640x180 / 320x180
  - ✓ 1080p Camera : 1920x1080 / 1920x540 / 960x540 / 960x270 / 480x270
  - ✓ Default Resolution: 720p Camera: 640x360, 1080p Camera: 960x540

### 7.1.3.5 JPEG Snapshot / PTZ control / Video Configuration / Live Audio

In the Web Viewer, you can save the video as JPEG file, control the PTZ of camera and hear the audio from the On Cue HYBRID-DVR. You can also configure the transferred video stream coming from the DVR. Right-click on the video window shows the pop-up menu (see below).

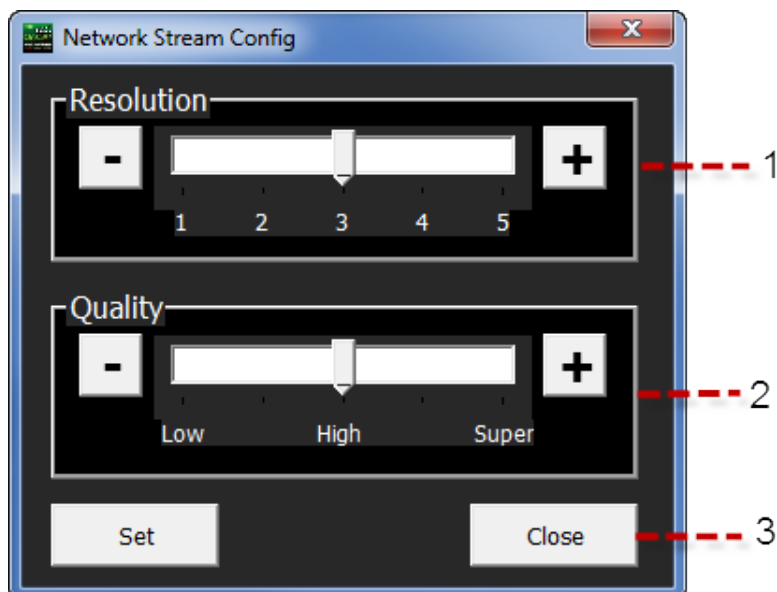


- ✦ **Save to JPEG File:** Save the current view of the selected channel with the colored border to the PC as a JPEG file.
- ✦ **PTZ Control :** Open the PTZ control panel, which controls the PTZ camera of the selected channel.



- ✦ 1: Camera Channel number which is currently selected.
- ✦ 2: [PRESET OPERATION OF PTZ](#)
- ✦ 3: [ZOOM / FOCUS / IRIS CONTROL](#)
- ✦ 4: [DIRECTION CONTROL \(PAN & TILT\)](#)

- ✦ **Network Stream Config :** Open the 'Network Stream Config' panel where you can choose the resolution and the quality for the transferred video. The changes will affect all channels.



- ✦ 1: Resolution selection (5 levels)

- HD SDI DVR
  - ✓ Level 1: 720p : 320x180 / 1080p : 480x270
  - ✓ Level 2: 720p : 640x180 / 1080p : 960x270
  - ✓ Level 3: 720p : 640x360 / 1080p : 960x540
  - ✓ Level 4: 720p : 1280x360 / 1080p : 1920x540
- Default Value: 640x360 for 720p, 960x540 for 1080p
- 🗨 2: Modify the quality of video (5 steps): LOW,NORAL,HIGH,BEST,SUPER
  - Default Quality: 'HIGH'
- 🗨 3: Apply the modification (SET) and close the panel

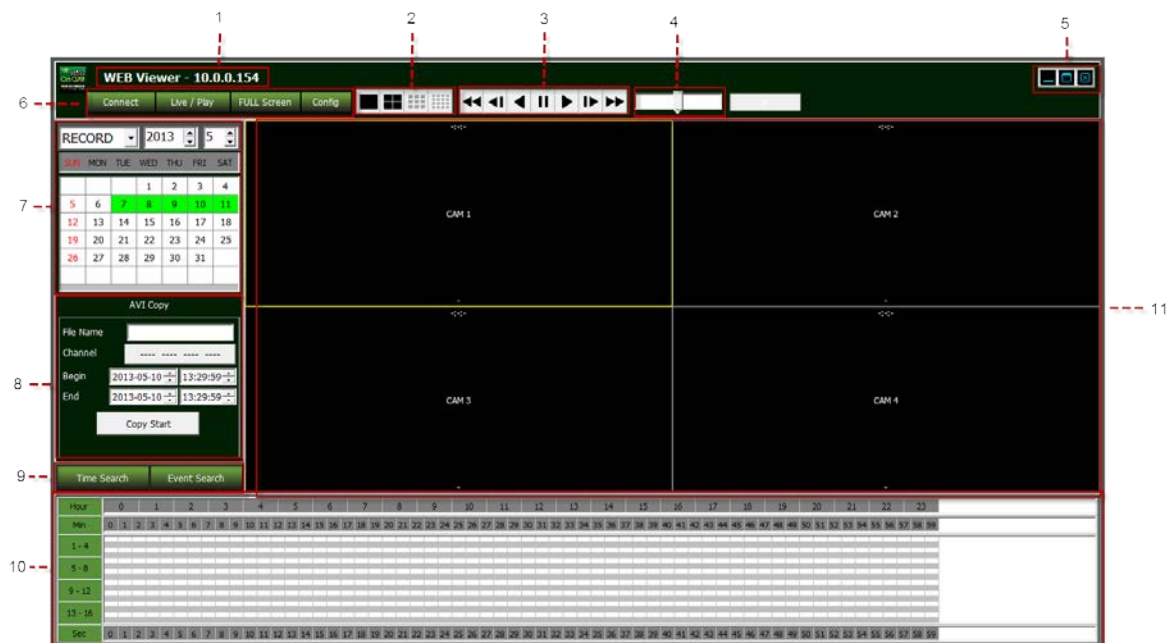
### 7.1.3.6 Search & Playback



Toggles the Live & Playback window


#### Features


- 🗨 User log-in/out feature (CONNECT)
- 🗨 Toggle between the live and search & playback
- 🗨 Search & Playback
- 🗨 Copy the recordings from the On Cue HYBRID-DVR to the PC remotely










- 🗨 1: Show the IP address of On Cue HYBRID-DVR currently connected

- 🗨 2: Split mode selection.

-  : Single camera view

-  : Quad split view




3: Playback speed control

-  : Reverse Fast
-  : Reverse Slow
-  : Reverse Normal Speed
-  : Pause
-  : Forward Normal Speed
-  : Forward Slow
-  : Forward Fast
- Steps for fast playback : x2, x4, x8, x16, x30, x60, x120
- Steps for slow playback : 1/2, 1/4, 1/8, 1/16, 1/30, 1/60, 1/120



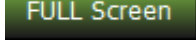
4: Fast Playback Speed & Direction Control Bar

- Mouse wheel up: faster in forward direction
- Mouse wheel down: reversely faster
- Center click: normal speed playback
- Click on the right half of bar : faster in forward direction
- Click on the left half of bar: reversely faster
- 7 level speed control for each direction

5: View window control

-  : Minimize the window
-  : Maximize the window
-  : Exit the 'Web Viewer'

6: Reconnect / Live & Search / Full Screen

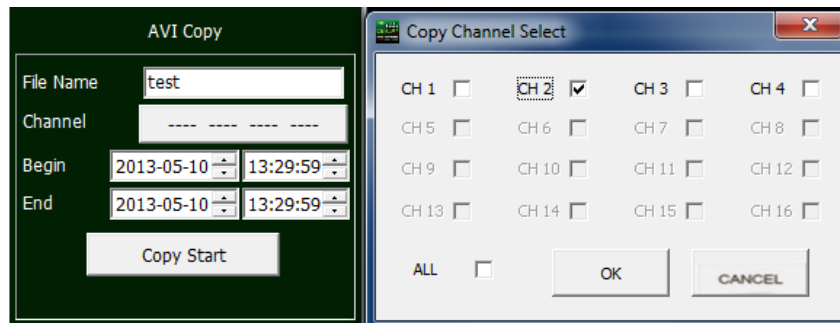
-  : Log out and Reconnect
-  : Switching between the live preview and the search & playback
-  : Full screen video view. Press 'ESC' to return to standard window

- 7: Calendar Panel: Select between RECORD (main HDD) and MIRROR (if setup) Year and Month. The green color indicates that recorded data exists. Clicking the date will trigger the search of the selected day. The search results are displayed on the time selection table (10).



- 8 : Copy the recorded video in the On Cue HYBRID-DVR to the PC

- **File name:** Name of the AVI file being saved.
- **Channel:** Choose the desired channel(s)



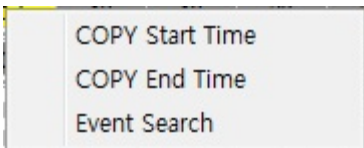
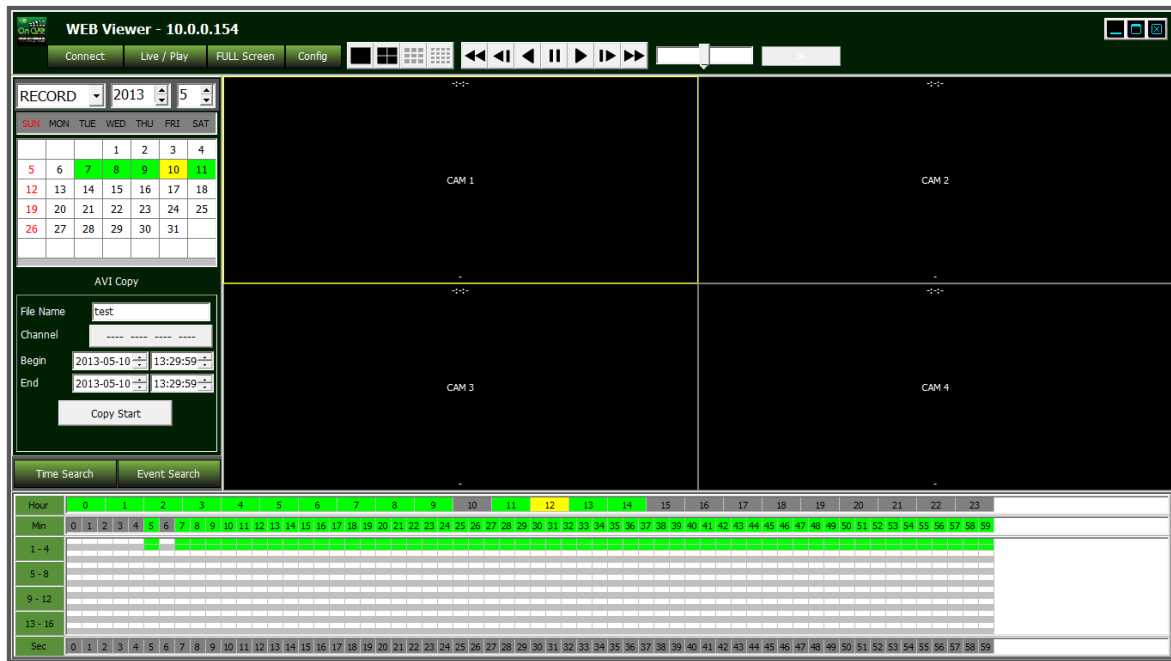
- **Begin:** The start time of the recording
- **End:** The end time of the recording
- **Copy Start:** executing the copy operation

- 9 : Choose search type between 'TIME' and 'EVENT'. The time selection table '10' in the above picture is used for one of the two search type's

- **Time Search** : changes the search mode to 'Time Search'.



- Yellow colored cell indicates the currently selected hour and minute.
- Green colored cell means that there is recorded data from the continuous recording mode.
- Red colored cell means that there is event recording data.
- Double-clicking on the cell in the minutes bar will start the playback from the selected time.



➤ : Right click on the minute bar will show the pop-up menu

➤ **COPY Start Time** : Taking the 'COPY START TIME' from the selected time cell and input it into the 'From' of COPY control panel.

➤ **COPY End Time** : Taking the 'COPY END TIME' from the selected time cell and input it into the 'To' of COPY control panel.

➤ **Event Search** : Taking the time for 'EVENT SEARCH start time'.

Clicking on the 'second' bar will move the second of playback video to the selected second. This is only available while playback is on-going.



➤ : Changes the search mode to 'EVENT Search'.

Event Type		No	Date Time	Ch	Event
<input checked="" type="checkbox"/> ALL	CH ALL <input checked="" type="checkbox"/> Research	1	2012/07/24 20:59:16	1	MOTION
<input checked="" type="checkbox"/> Sensor		2	2012/07/24 20:59:10	1	MOTION
<input checked="" type="checkbox"/> Video Loss	CH 1 <input checked="" type="checkbox"/> CH 2 <input checked="" type="checkbox"/> CH 3 <input checked="" type="checkbox"/> CH 4 <input checked="" type="checkbox"/>	3	2012/07/24 20:59:07	1	MOTION
<input checked="" type="checkbox"/> Motion Detection		4	2012/07/24 20:58:51	1	MOTION
		5	2012/07/24 20:58:37	1	MOTION
		6	2012/07/24 20:58:36	1	MOTION
		7	2012/07/24 20:58:26	1	MOTION
		8	2012/07/24 20:58:05	1	MOTION
		9	2012/07/24 20:57:56	1	MOTION
		10	2012/07/24 20:57:54	1	MOTION

- **Event Type(Search Condition)**
  - ✓ All: For all recording events
  - ✓ Sensor: sensor input event
  - ✓ Video Loss: lost video event
  - ✓ Motion Detection: all motion activated recording

➤ **CH ALL:** Searching for all channels

➤ **CH1/CH2/CH3/CH4:** choosing the channel to be searched

- Research: execute the event search again

#### 10: Time selection & recording indication table / Event search result window

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 - 4																								
5 - 8																								
9 - 12																								
13 - 16																								
SEC	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

Event Type		No	Date Time	Ch	Event
<input checked="" type="checkbox"/> ALL	CH ALL <input checked="" type="checkbox"/> Research	1	2012/07/24 20:59:16	1	MOTION
<input checked="" type="checkbox"/> Sensor	CH 1 <input checked="" type="checkbox"/> CH 2 <input checked="" type="checkbox"/> CH 3 <input checked="" type="checkbox"/> CH 4 <input checked="" type="checkbox"/>	2	2012/07/24 20:59:10	1	MOTION
<input checked="" type="checkbox"/> Video Loss		3	2012/07/24 20:59:07	1	MOTION
<input checked="" type="checkbox"/> Motion Detection		4	2012/07/24 20:58:51	1	MOTION
		5	2012/07/24 20:58:37	1	MOTION
		6	2012/07/24 20:58:36	1	MOTION
		7	2012/07/24 20:58:26	1	MOTION
		8	2012/07/24 20:58:05	1	MOTION
		9	2012/07/24 20:57:56	1	MOTION
		10	2012/07/24 20:57:54	1	MOTION

- 11: display the playback video as a result of searching.

- 12: show the current playback mode, speed and direction.

## 7.2 On Cue Viewer Android / iOS

**On Cue Viewer** is the name of smart phone app.

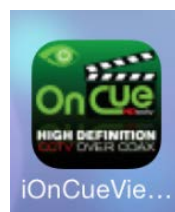
You can access to On Cue HYBRID-DVR system through 3G/4G phone or Wi-Fi connection.

### Main feature

- Live View
- Full-Screen
- Multi Screen Display (4 channel split)
- PTZ Control (Pan-Tilt, Zoom, Preset configure and Move)
- Live Zoom & Web Menu connection of On Cue HYBRID-DVR will be supported through upgraded version.

### 7.2.1 How to connect via iOS

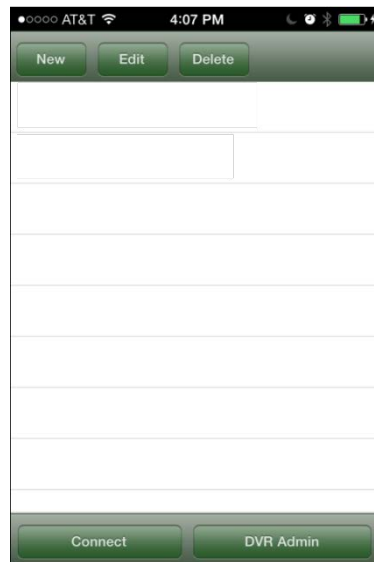
- Click on the App from your smart device



- You will see the following screen

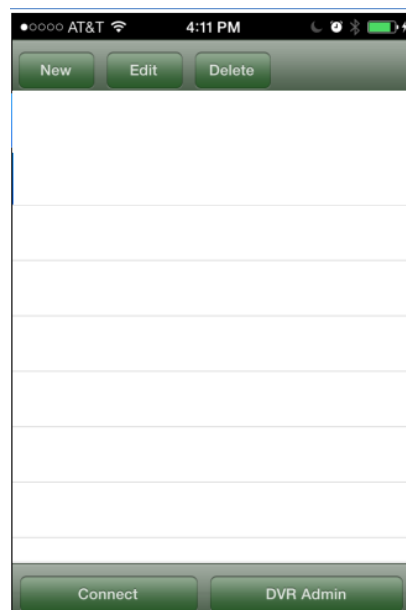


Followed by the main screen



### 7.2.1.1 New Connection

Click on **New** tab





- ✚ Input you On Cue HYBRID-DVR information and click **Save**

AT&T 4:11 PM

Save Cancel

Connection Name  
VITEK

Host Address  
12.22.195.26

Port Number Web Port  
8554 9000

User Name  
DEMO

Password  
●●●●

- ✚ On Cue HYBRID-DVR Address : You need to input IP Address
- ✚ Port Number : You need to input On Cue HYBRID-DVR port number that you configured at Network menu at ON Cue HYBRID-DVR.
- ✚ User ID : You need to input ID that you configured in On Cue HYBRID-DVR. ( default password of Admin is 1234)
- ✚ Password : You need to input password ( default password of Admin is 1234)
- ✚ Connect : You can connect to On Cue HYBRID-DVR to view the video pressing Connect button.

### 7.2.1.2 On Cue HYBRID-DVR LIST

AT&T 4:07 PM

New Edit Delete

8 chanbels (12.22.195.26:9554)  
ADMIN, 9077

VITEK (12.22.195.26:8554)  
DEMO, 9000

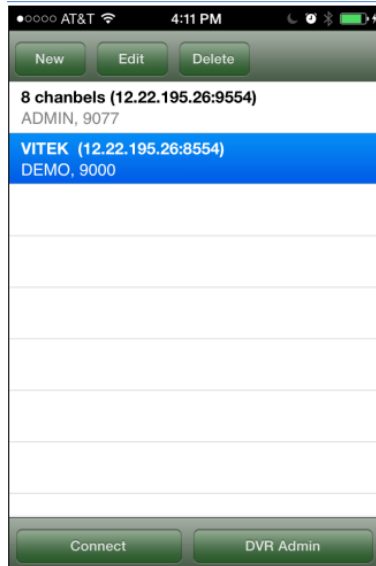
Connect DVR Admin

- ✚ New : You can create new On Cue HYBRID-DVR will be added to List.
- ✚ Edit : You can edit list currently stored.

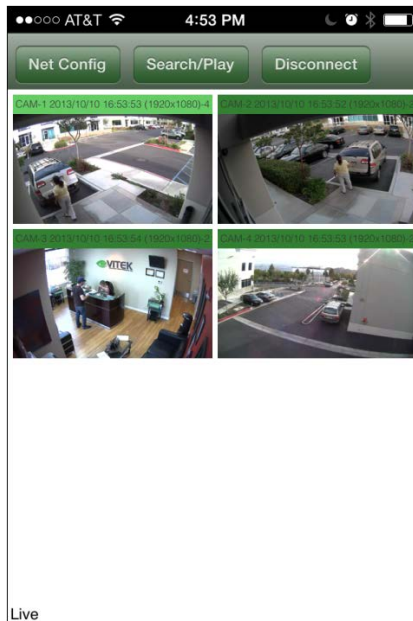
- ✚ Delete : You can delete list currently stored.
- ✚ Connect : You can connect one of List already stored.
- ✚ DVR Admin : You can connect to Web menu of On Cue HYBRID-DVR ( it will be supported in next firmware) after selection one of On Cue HYBRID-DVR in the List.

### 7.2.1.3 How to connect

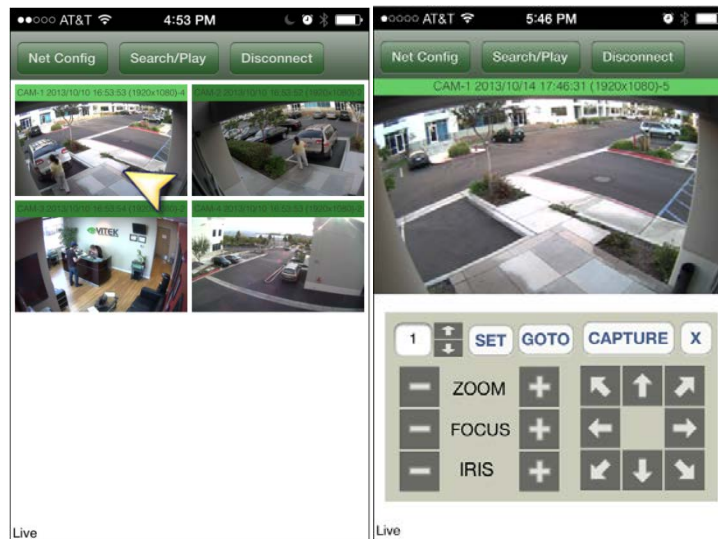
Select from your On Cue HYBRID-DVR list the unit you want to view than press **Connect**



### 7.2.1.4 How to configure the Network Resolution and Quality



To view a single camera click on the desire channel



### 7.2.1.5 PTZ Control / Capture Image

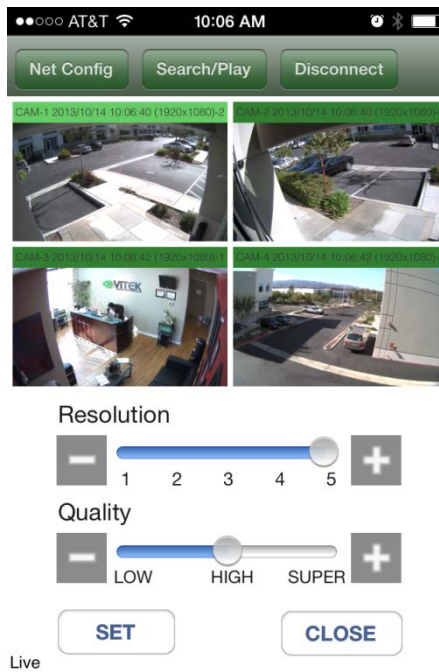
PTZ camera can be control using by using the control as shown below:



- SET** - Select the
- GOTO** - Allows the camera to move to the selected preset
- CAPTURE** - Will capture an image and save under your photos
- X** - Exit

### 7.2.1.6 Net Configuration Adjustments

Net Config. tab you will be able to adjust the resolution and quality of the video transmission on your smart device.



### 7.2.1.7 How to Search/Play Video



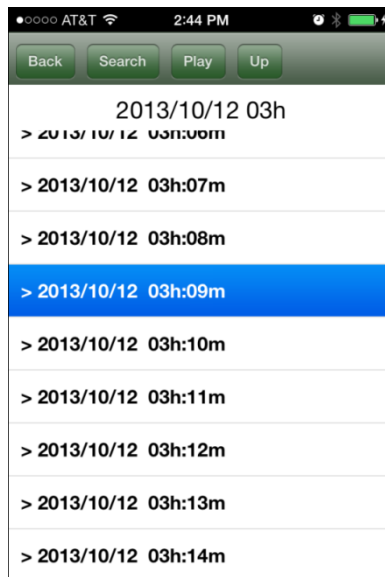
Search/Play tab, you will be able to select the day of interest



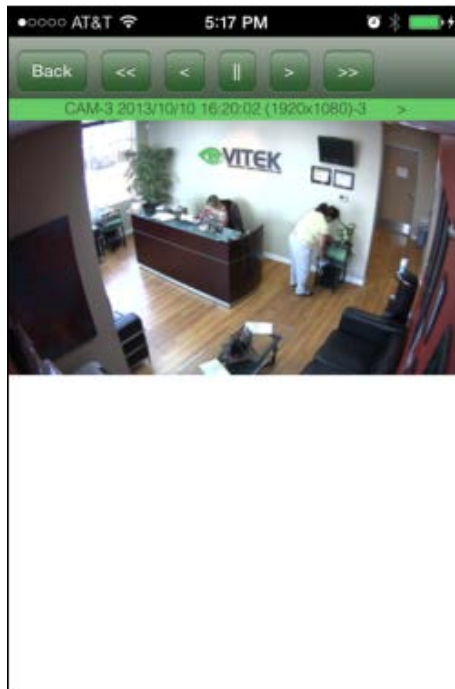
After selecting the day you will be able to select the hour (00~24)



Now you will be able to select the minutes (00~59)



You will be able to see playback (one channel)



Return to the previous page



Reverse Play – Speed can be selected 2, 4, 8, 16, 32, 64.



Reverse Slow playback



Pause



Fast Forward Slow Play



Fast Forward – Speed can be selected 2, 4, 8, 16, 32, 64

### 7.2.1.8 Disconnect

#### ***Disconnect***

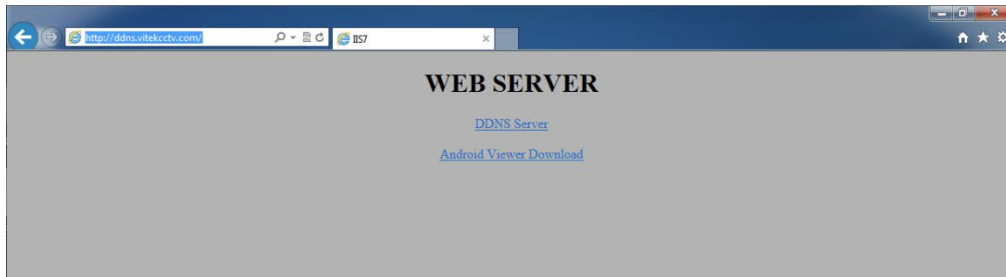
This will terminate the connections between the On Cue HYBRID-DVR and your smart device.

## 7.3 DDNS SERVER

You can get Domain Name Service through DDNS server.

### 7.3.1 HOW TO REGISTER

Input the following URL into your browser: <http://ddns.vitekccctv.com>



- ✚ ANDROID VIEWER: You can download Android Viewer ( iPocketViewer ).
- ✚ DDNS SERVER: Press the DDNS Server link to go to the DDNS server page.



- ✚ LOGIN ID: Input USER ID.
- ✚ PASSWORD: Input Password.
- ✚ Logon: Press Log-in button to log-in
- ✚ Register: You can create user account.

### 7.3.2 REGISTER

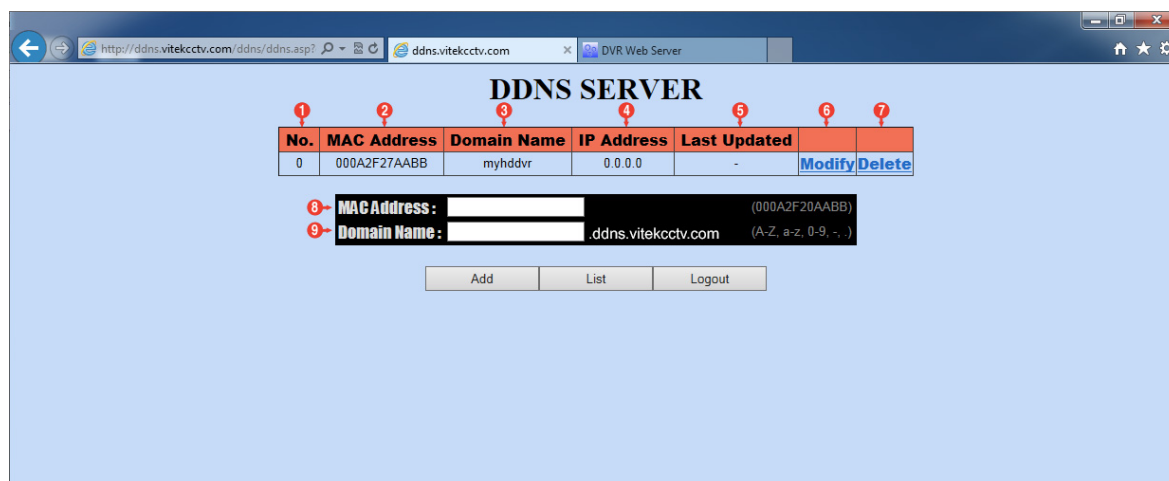
You can create user account by using register menu.



- ✚ LOGIN ID : Create ID.
- ✚ PASSWORD : Create Password..
- ✚ CONFIRM PASSWORD: Input password again to confirm the password.

### 7.3.3 Input On Cue HYBRID-DVR information.

You need to register domain name to get the service and input MAC address into DDNS server.



- ✚ 1 : List number of registered On Cue HYBRID-DVR
  - ✚ 2 : Mac address of registered On Cue HYBRID-DVR
  - ✚ 3 : Domain name of registered On Cue HYBRID-DVR.
  - ✚ 4 : IP address of registered On Cue HYBRID-DVR.
  - ✚ 5 : Last time that On Cue HYBRID-DVR sent the info to DDNS server.
  - ✚ 6 : Update of Last Update
  - ✚ 7 : Delete of Domain name registered in DDNS server.
  - ✚ 8 : Input Mac Address of On Cue HYBRID-DVR that you want to register newly into DDNS server.
  - ✚ 9 : Input Domain name of On Cue HYBRID-DVR that you want to register newly into DDNS server.
  - ✚ The Domain name type is <http://ddns.vitekctv.com>
  - ✚ ADD : You can register On Cue HYBRID-DVR to the DDNS server selecting the ADD button.
  - ✚ LIST : A list of On Cue HYBRID-DVR (on your current IP Public IP Address) that are register with the DDNS server will be displayed.
  - ✚ LOGOUT : User can log out
- Note) It will take around 10 to 15 minutes to confirm the DDNS registration.

## 7.4 On Cue HYBRID-DVR MANAGER

The On Cue HYBRID-DVR MANAGER is a 'Remote Client On Cue HYBRID-DVR Viewer' allows to the user to monitor live video, Search & Playback, and Download Recorded Video from the On Cue HYBRID-DVR(Remote COPY).

#### [Minimum & Recommended Specification of PC]

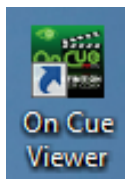
	Minimum	Recommended
Operating System	Windows XP	Windows 7
CPU	Core2Duo @2.53GHz or Equivalent	Core i5 @3.3GHz or Higher



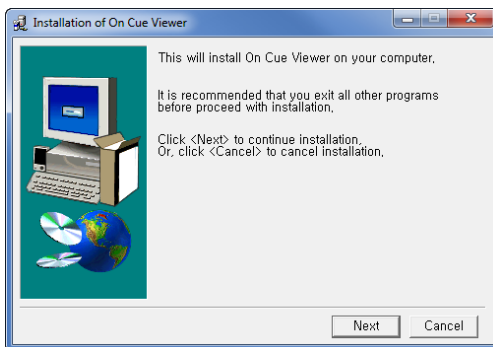
Memory	1 GB	2 GB
Video Card Memory	512MB	512MB
HDD Capacity	50MB	2GB
VGA Resolution	1280x1024x16	1920x1080x32
Direct-X	DirectX 7.0	DirectX 9.0c
Network	Ethernet 10/100B-TX	

### 7.4.1 INSTALLATION

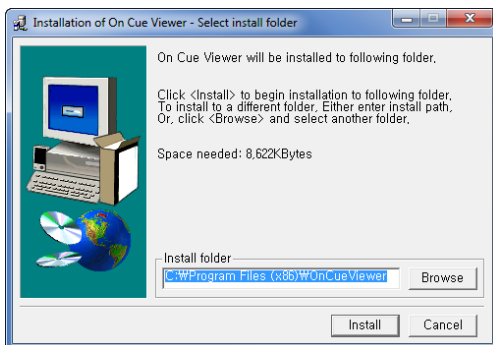
You can install the 'DVR Manager' using the 'setup' program which is provided on the CD. Executing the 'DVRManager\_setup.exe' on the On Cue HYBRID-DVR viewer folder will initiate the installation.



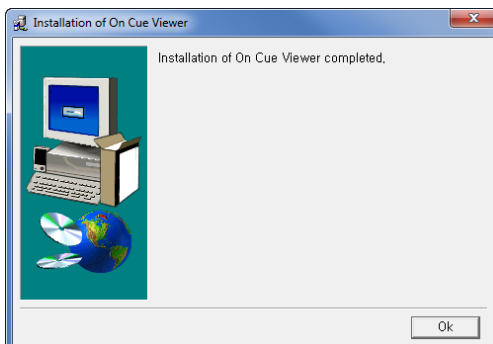
: Setup program of On Cue Viewer



: Introduction of Setup



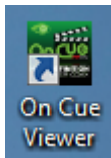
: Specify the folder location for installation.



: Complete Message Window

## 7.4.2 EXECUTION

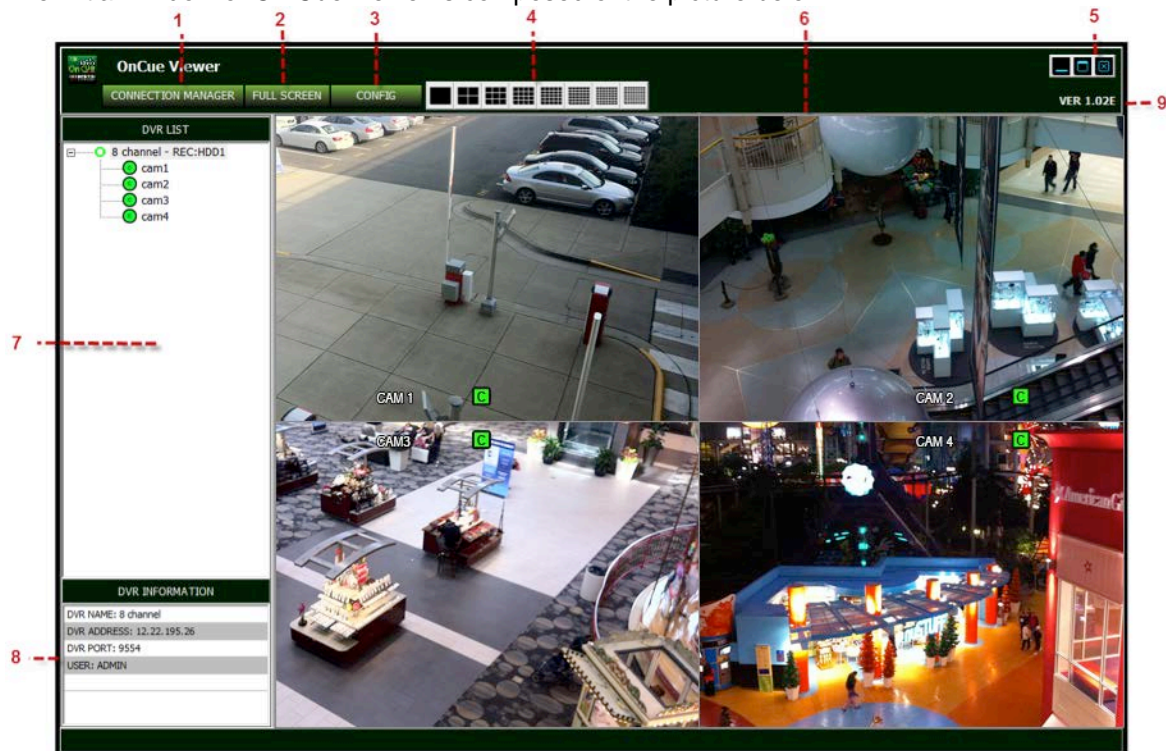
After installing the program successfully, a shortcut named 'OnCue Viewer' will be created. Clicking this icon executes the OnCue Viewer.



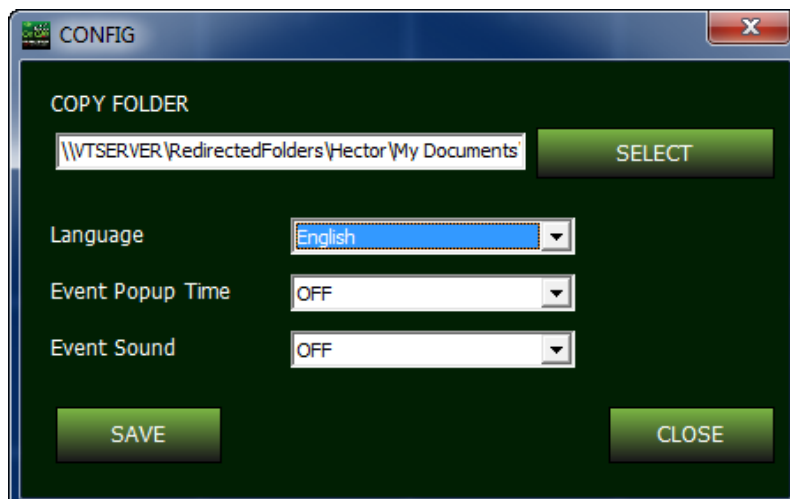
: Shortcut and icon of On Cue Viewer




## 7.4.3 LIVE VIDEO MONITORING

The initial window of On Cue viewer is composed of the picture below.



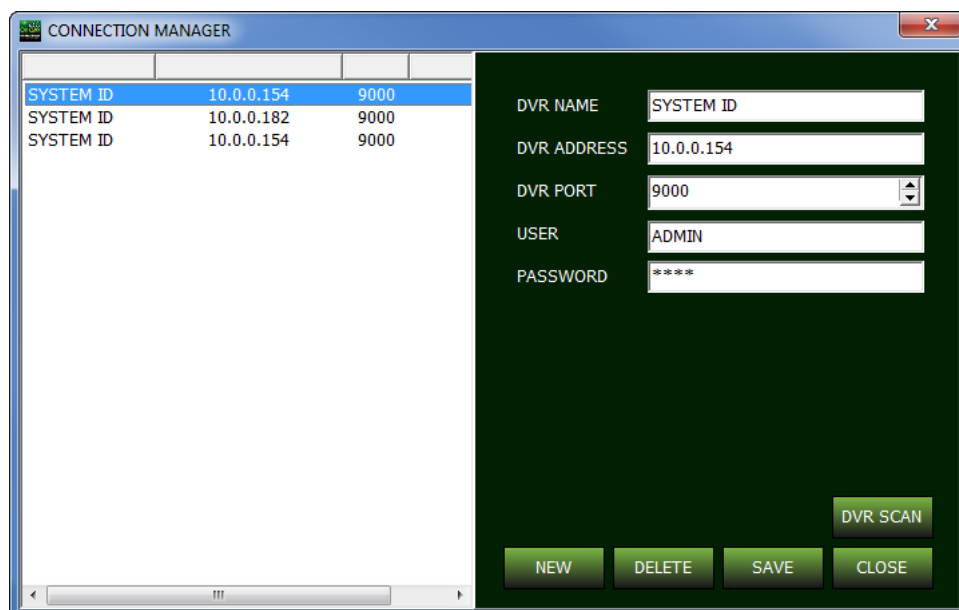
- ✚ 1 : **CONNECTION MANAGER**: for registering or deleting the On Cue HYBRID-DVR to/from the DVR List.
- ✚ 2 : **FULL SCREEN** : Fill and fit only the video windows into the PC monitor.
- ✚ 3 : **CONFIG** : Saves the DVR Manager configuration



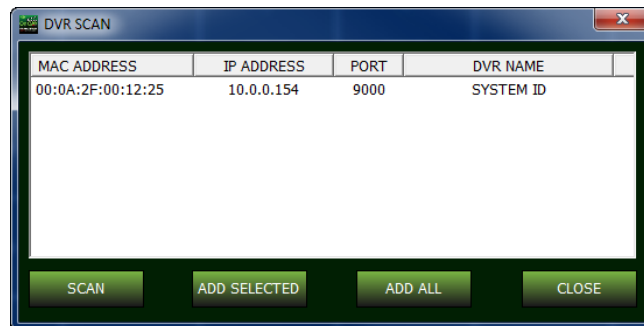
- FOLDER SELECT: Choose or make the folder for the data to be copied to.
- SAVE: Apply and save the current modification.
- CLOSE: exit the 'Config' pop-up.
- ✚ 4 : **SPLIT MODE SELECTION**: choose the number of cameras which will be shown in the live preview window.
  - 1 / 4 / 9 / 16 / 25 / 36 / 49 / 64
- ✚ 5 : **Minimize/Maximize/Close DVR Manager**
  -  : Minimize the window
  -  : Maximize the window
  -  : Exit the DVR Manager
- ✚ 6 : **Live View Window** : show the live video of the connected DVR.
- ✚ 7 : **DVR List Window** : list the registered On Cue HYBRID-DVRs and indicate the connection status. When the On Cue HYBRID-DVR is linked, the cameras connected on that On Cue HYBRID-DVR are listed under the DVR.
- ✚ 8 : **DVR Information** : Show some information of On Cue HYBRID-DVR selected.
- ✚ 9 : **Version**: the version number of On Cue HYBRID-DVR Manager

#### 7.4.4 CONNECTION MANAGER

Register, remove and edit DVRs in the DVR list.



- ✚ **DVR Name** : The name which you give to the On Cue HYBRID-DVR
- ✚ **DVR Address** : specify the IP address of the On Cue HYBRID-DVR
- ✚ **DVR Port** : Input the DVR Port of the DVR. The value should be the same as the one specified in the DVR's menu.
- ✚ **USER** : user ID to be used
- ✚ **PASSWORD** : password for the selected user.
  - User name and password is case-sensitive.
- ✚ **DVR SCAN**: scan the local network and show the detected On Cue HYBRID-DVRs in the list.



- MAC Address :show the MAC address of detected DVRs
- IP Address: shows the IP addresses of detected DVRs
- PORT : shows the DVR PORT numbers of the detected DVRs
- DVR Name: show the DVR name. This is the same as the 'SYSTEM NAME' under the ['MANAGEMENT' page of 'SYSTEM' menu.](#)
- Re-scan: execute scanning the LAN again.
- Add : register the selected DVR into the DVR list.
- Add All : register all the scanned DVRs into the DVR list..
- Close: Close the DVR SCAN window.

- ✚ Add: add new DVR into the DVR list.
- ✚ Edit : edit the connection information of the selected DVR.
- ✚ Remove : remove the selected DVR from the DVR list.
- ✚ Close : close the CONNECTION MANAGER

## 7.4.5 LIVE VIDEO WINDOW

The transferred live camera video are monitored in this window,

Features of LIVE VIDEO WINDOW

- ✚ Monitoring live camera video
- ✚ Swap the position of two cameras
- ✚ Snapshot and save it into the PC as JPEG file.
- ✚ PAN/TILT Control remotely
- ✚ Configure directly the quality and resolution for the transferred video.(ADMIN account only)
- ✚ Live audio from On Cue HYBRID-DVR
- ✚ Digital Zoom In

### 7.4.5.1 Monitoring live video stream

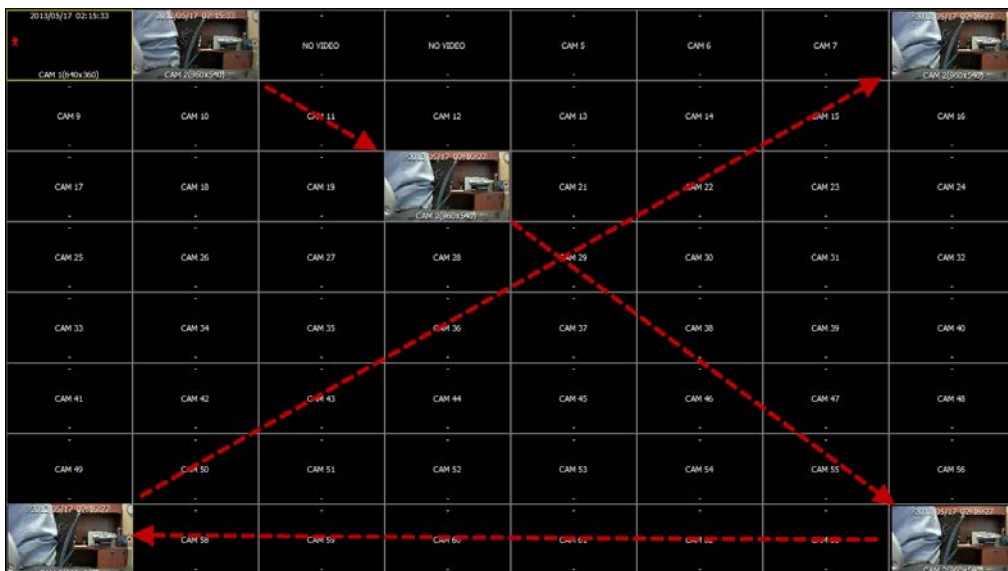
Live videos from multiple DVRs are displayed in the 'LIVE VIDEO WINDOW'. You can configure the number of cameras to be shown by the 'SPLIT MODE SELECTION' button.

- Double click change the split mode to the single channel full scale view and one more double click from the single channel view recalls the previous split mode.



### 7.4.5.2 Swap Camera Position

You can swap the display location of selected cameras by dragging and dropping.



- The swapped camera position will go back to the original location in case that the On Cue HYBRID-DVR manager restarts or the connection is re-established.

### 7.4.5.3 Digital Zoom on the Live View

Area selection by right click of mouse dragging on the desired channel will activate the digital zoom for the specified area for the specified area.

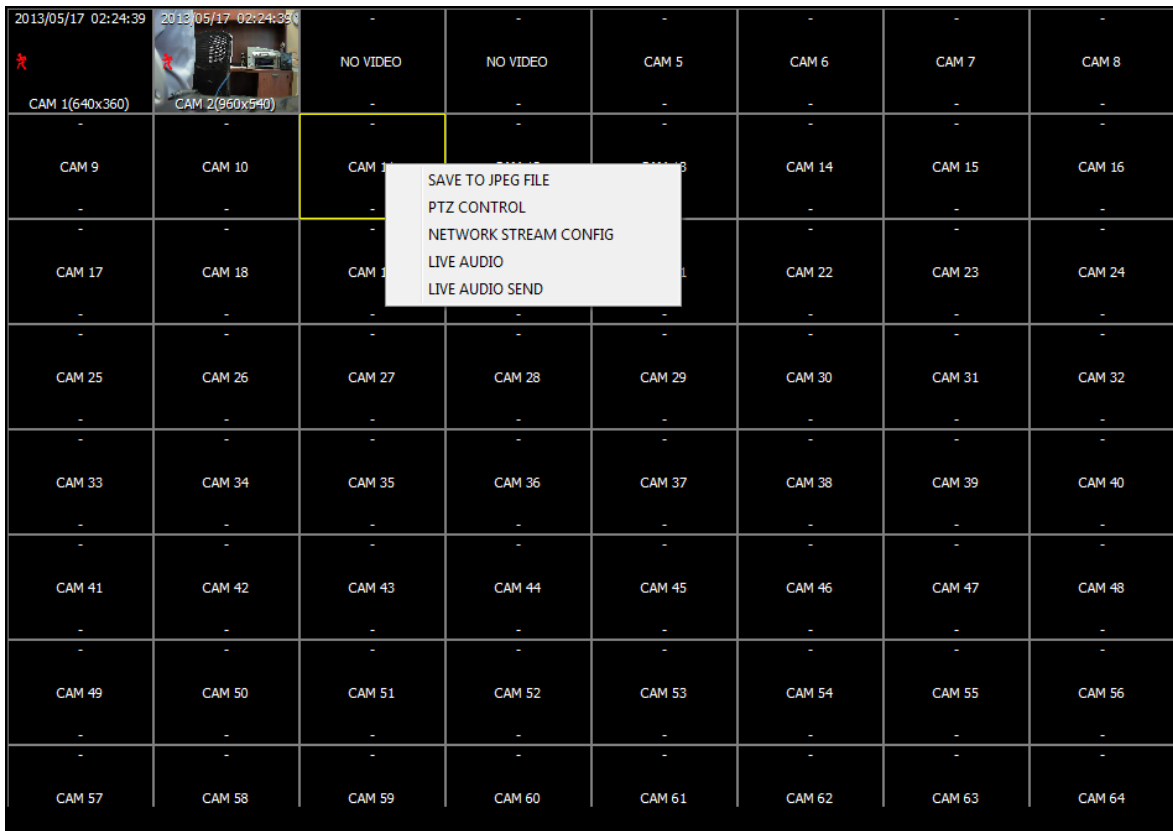
And any clicking turns off the digital zoom.





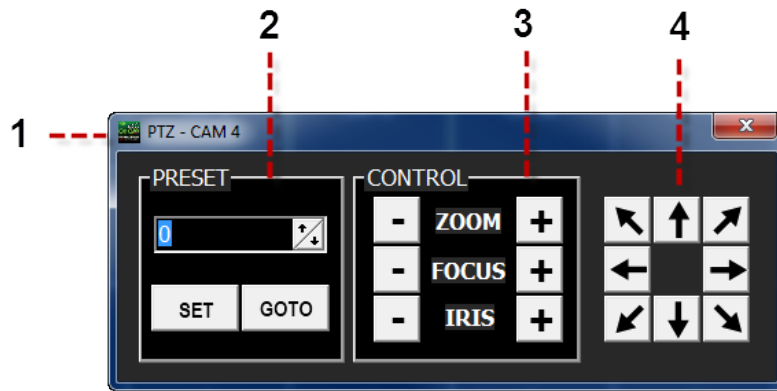
### 7.4.5.4 JPEG Snapshot/ PTZ control / Video Configuration /Live Audio

You can save live video as JPEG file, control the PTZ of camera, hear the audio from the DVR, and you can configure the live video directly from the viewer.

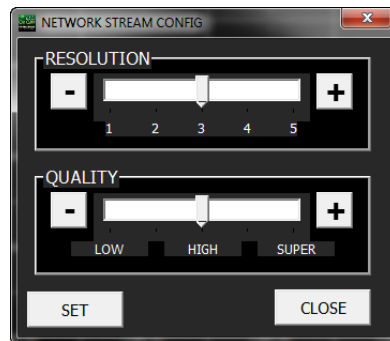
Right-click on the video window to bring up the pop-up menu (see below).



-  **SaveToJpeg** : Save the current image (the selected channel with the colored border) to the PC as a JPEG file.
-  **PTZ Control** : Open the PTZ control panel, which controls the PTZ camera of the selected channel.

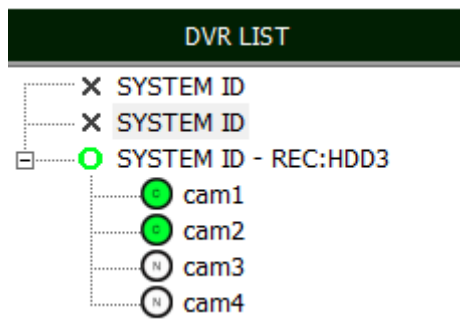



- ✚ 1: Camera Channel number which is currently selected.
- ✚ 2: [PRESET OPERATION OF PTZ](#)
- ✚ 3: [ZOOM/FOCUS/IRIS CONTROL](#)
- ✚ 4: [DIRECTION CONTROL \(PAN & TILT\)](#)
- ✚ LIVE AUDIO : You can hear the audio from the selected camera.
- ✚ Network Stream Config

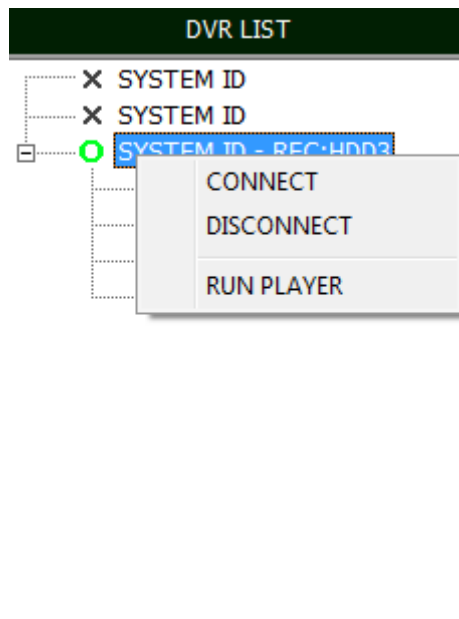


### 7.4.5.5 DVR List

The 'DVR List' shows the DVRs registered using the 'CONNECTION MANAGER'. On the DVR List panel, you can connect/disconnect the DVR, execute the Player for the remote searching and playback, and see the status information of DVR.



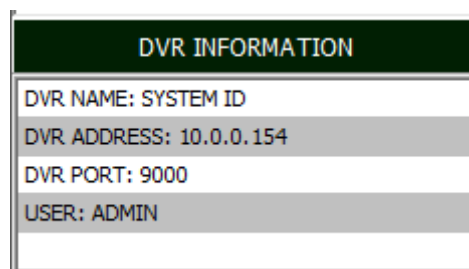
- ✚ SYSTEM ID – REC:HDD1 : [The name of DVR]:[HDD number], HDD number means the HDD index currently be accessed for recording.
- ✚  : Show the recording type or status..
- ✚ Right clicking the DVR name in the DVR list pops up the menu to connect/disconnect DVR or execute the Player for search & playback.



- CONNECT: Connect to the selected DVR
- DISCONNECT: Disconnect the selected DVR
- RUN PLAYER : Execute the Player for the remote search & playback

#### 7.4.5.6 On Cue HYBRID-DVR Information

This panel shows some information of On Cue HYBRID-DVR which is currently highlighted from the DVR List.



#### 7.4.6 PLAYER

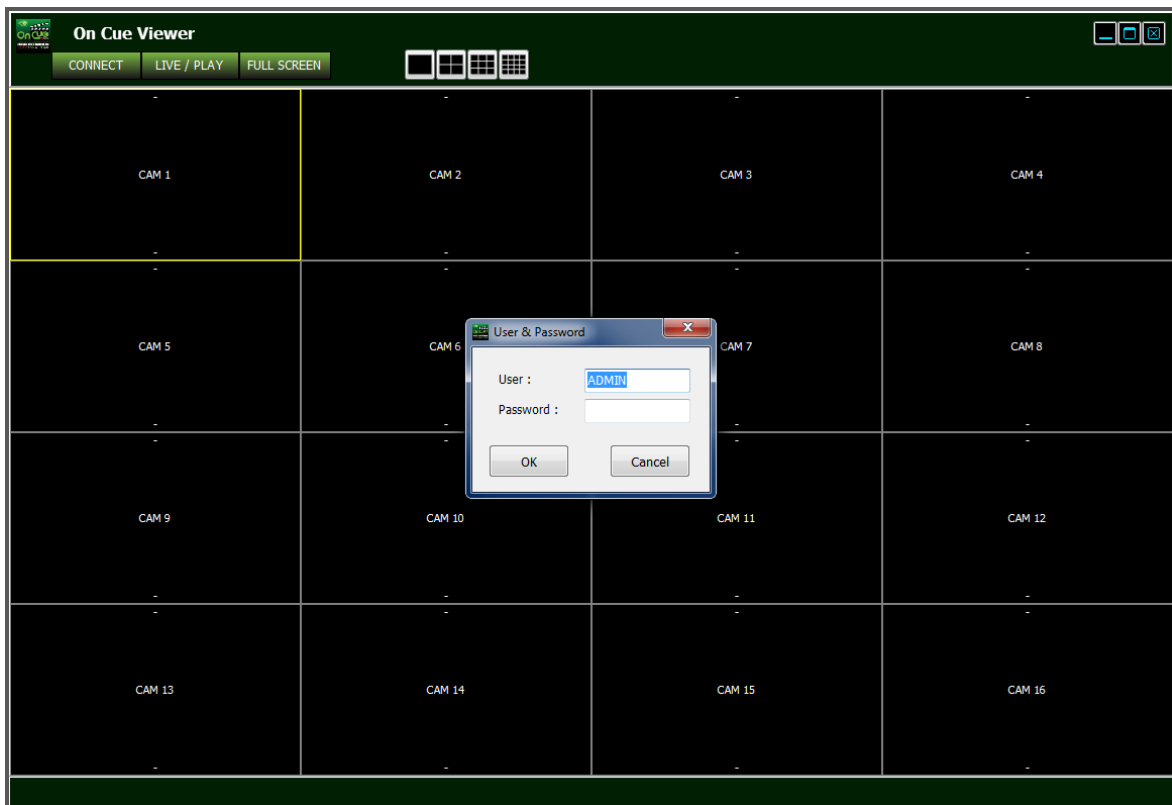
The Player supports the following features:

- 🔧 Live video monitoring for the connected On Cue HYBRID-DVR
- 🔧 Remote search and playback for the connected On Cue HYBRID-DVR
- 🔧 Download the recorded data from the On Cue HYBRID-DVR(remote copy)
- 🔧 Control a PAN/TILT camera movement

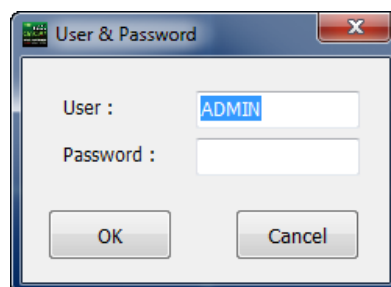
##### 7.4.6.1 Initial Screen

Executing the 'Player' opens the application separated from the web browser and show the login window such as below picture.





### 7.4.6.2 Log In



User :

: Enter the USER name of On Cue HYBRID-DVR registered in the On Cue HYBRID-DVR

Password :

: Enter the password for the selected user.

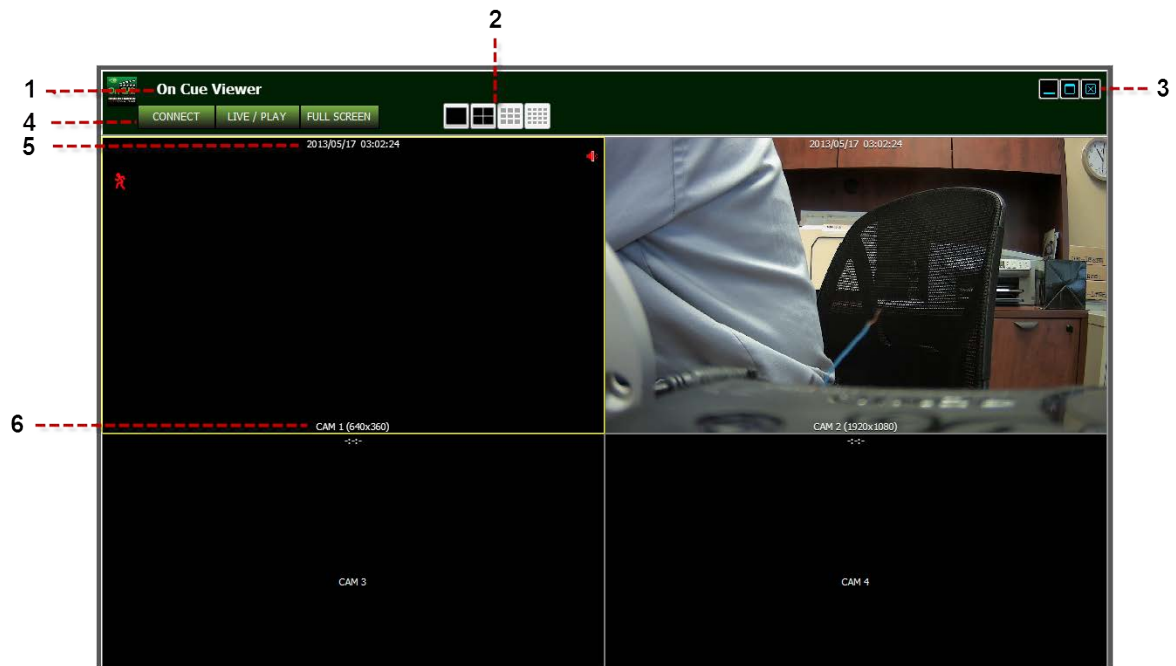
- ◆ The user authority and allowed functions, live preview, search & playback, PTZ control and etc., are controlled by the setting [USER AUTHORITY setting](#) of On Cue HYBRID-DVR setup
- ◆ USER ID and password is case-sensitive.

### 7.4.6.3 Live Preview

After login, the live preview screen will be shown such as below.

#### Features





- ◆ User log-in/out feature (RECONNECT)
- ◆ Monitoring the live preview
- ◆ Snapshot and save the preview video as JPEG
- ◆ (Admin Only) Control the resolution and quality for transferred video stream directly






✚ The colored rectangle around video shows the currently selected camera

✚ 1: Application Title

✚ 2: Display split mode selection


-  : Single camera view
-  : Quad split view
-  : 8 Way View
-  : 16 Way View

✚ 3: WEB Viewer Minimize/Maximize/Close

-  : Minimize the window
-  : Maximize the window
-  : Exit the 'Web Viewer'

✚ 4: Reconnect / Live & Search / Full Screen

✚  : Log out and Reconnect

✚  : Switching between the live preview and the search & playback

✚  : Full screen video view. Press 'ESC' to return to the window

✚ 5: Date & Time of Camera transferred from the On Cue HYBRID-DVR

✚ 6 : Channel Title and the resolution of the transferred video

● For the detail about the JPEG Snapshot/PTZ Control/Video Configuration, refer [to the same feature of Web Viewer](#).

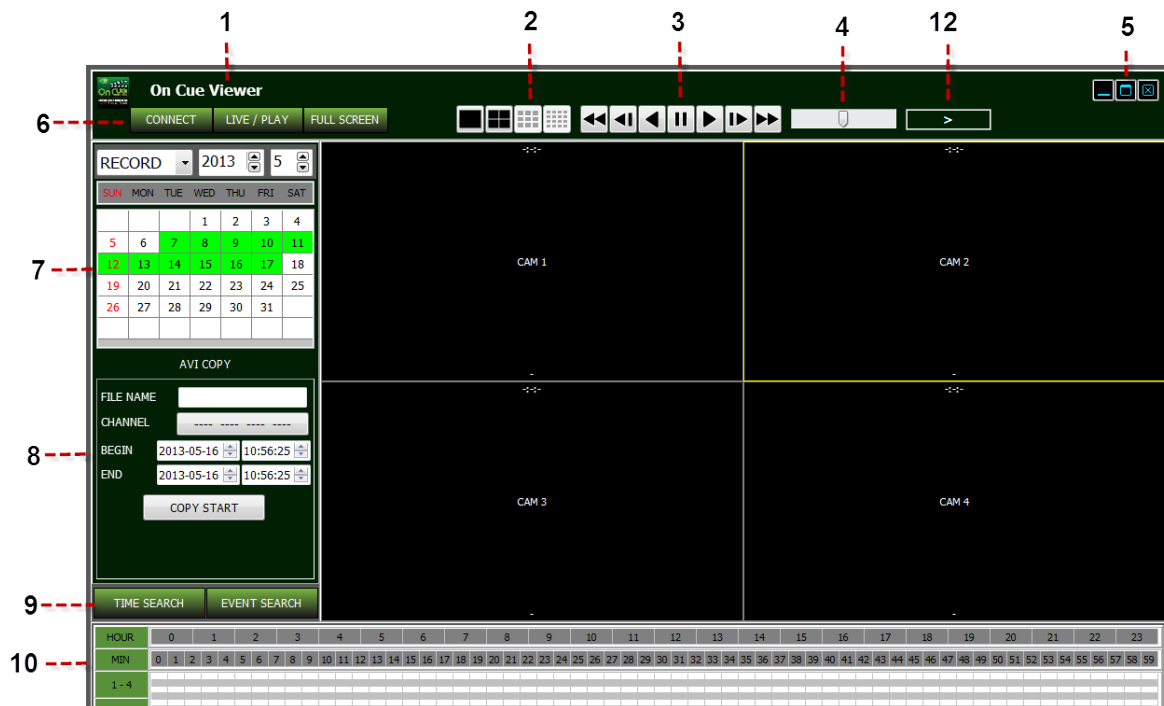
## 7.4.6.4 Search & Playback

**LIVE / PLAY**

Toggles between the search & playback window


### Features


- ✚ User log-in/out feature (RECONNECT)
- ✚ Switching between the live preview and the search & playback
- ✚ Search & Playback
- ✚ Copy the recordings from the DVR to the PC remotely



✚ 1: Application title

✚ 2: Split mode selection.

➤  : Single camera view

➤  : Quad split view




✚ 3: Playback speed control

➤  : Reverse Fast

➤  : Reverse Slow

➤  : Reverse Normal Speed




➤  : Pause

-  : Forward Normal Speed
-  : Forward Slow
-  : Forward Fast
- Steps for fast playback : x2, x4, x8, x16,x30, x60, x120
- Steps for slow playback : 1/2, 1/4, 1/8, 1/16, 1/30, 1/60, 1/120



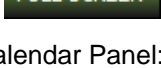
4: Fast Playback Speed & Direction Control Bar

- Mouse wheel up: faster in forward direction
- Mouse wheel down: fast reverse
- Center click: normal speed playback
- Click on the right half of bar : fast forward
- Click on the left half of bar: fast reverse
- 7 level speed control for each direction

5: View window control

-  : Minimize the window
-  : Maximize the window
-  : Exit the 'Web Viewer'

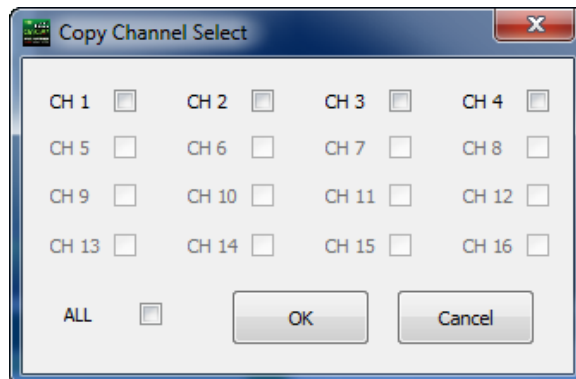
6: Reconnect/Live&Search/Full Screen

-  : Log out and Reconnect
-  : Switching between the live preview and the search & playback
-  : Full screen video view. Press 'ESC' to return to the window

7: Calendar Panel: show the selected date for searching. The green color indicates that the recording data exist. Click the date will trigger the searching for the selected day. The searching result is displayed on the time selection table (10).

8 : Copy the recorded video in the DVR to the PC

- TAG name: Folder name where the copied AVI file to be saved.
- Channel: Channel: Choose the desired channel(s) to be copied



- From: The start time of the recording data to be copied
- To: The end time of the recording data to be copied

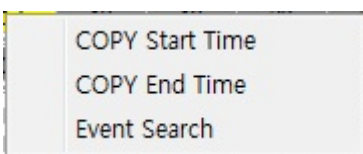
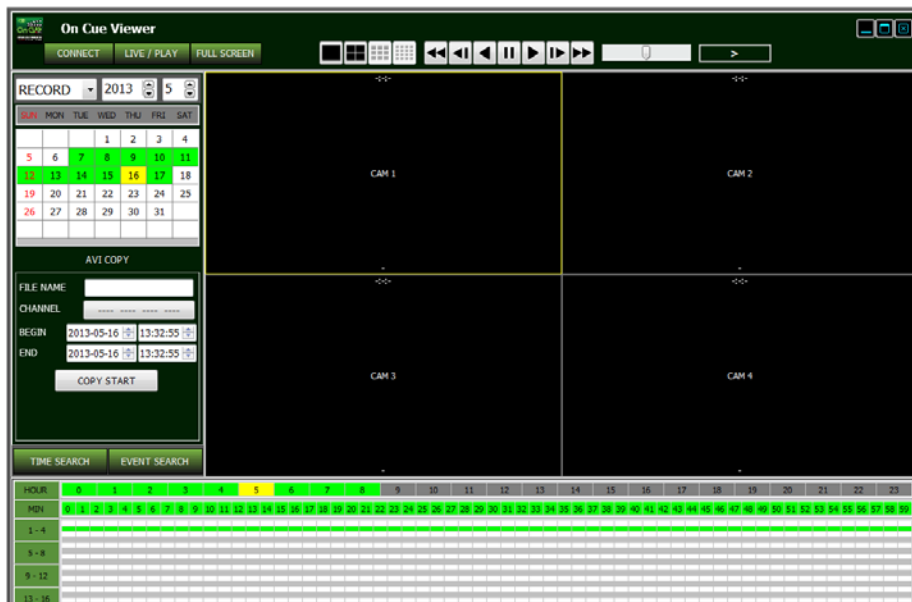
- Copy Start: Begins the copy operation
- TAG name and Channel have to be defined before user can copy.

9 : Choose search type between 'EVENT' and 'TIME'. The time selection table tagged '10' in the above picture is used for one of this two search type

- **TIME SEARCH** : select the search mode to 'Time Search'.

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																																				
MIN	0	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	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
1 - 4																																																												
5 - 8																																																												
9 - 12																																																												
13 - 16																																																												
SEC	0	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	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59

- Yellow colored cell indicates the currently selected hour and minute.
- Green colored cell means that there is the recording data by the continuous recording.
- Red colored cell means that there is the event recording data.
- Double-click on the cell in the minutes bar will start the playback from the selected time.



- : Right click on the minute bar will show the pop-up menu
- **COPY Start Time** : Taking the 'COPY START TIME' from the selected time cell and input it into the 'From' of COPY control panel.
- **COPY End Time** : Taking the 'COPY END TIME' from the selected time cell and input it into the 'To' of COPY control panel.
- **Event Search** : Taking the time for 'EVENT SEARCH start time'.
- Clicking on the 'seconds' bar will move the second of playback video to the selected second. This is only available while playback on-going.

- **EVENT SEARCH** : Select the search mode to 'EVENT Search'.

EVENT TYPE					NO.	DATE / TIME	CHANNEL	TYPE
<input checked="" type="checkbox"/> ALL EVENT	ALL	<input checked="" type="checkbox"/>	SEARCH		1	2013/05/16 05:04:01	2	MOTION
<input checked="" type="checkbox"/> SENSOR					2	2013/05/16 04:39:58	2	MOTION
<input checked="" type="checkbox"/> VIDEO LOSS	CH 1	<input checked="" type="checkbox"/>	CH 2	<input checked="" type="checkbox"/>	3	2013/05/16 02:00:35	2	MOTION
<input checked="" type="checkbox"/> MOTION DETECTION			CH 3	<input checked="" type="checkbox"/>	4	2013/05/16 00:30:14	2	MOTION
			CH 4	<input checked="" type="checkbox"/>				

- Event Type(Search Condition)
  - ✓ All: For all kinds of recording event
  - ✓ Sensor: sensor input event
  - ✓ Video Loss: lost video event
- Motion Detection : motion detection event
- CH ALL: Searching for all channels
- CH1/CH2/CH3/CH4: choosing the channel to be searched
- Research: execute the event search again

🔗 10: Time selection & recording indication table / Event search result window

HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
MIN	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1 - 4	[Green bar]																							
5 - 8	[Grey bar]																							
9 - 12	[Grey bar]																							
13 - 16	[Grey bar]																							
SEC	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

EVENT TYPE					NO.	DATE / TIME	CHANNEL	TYPE
<input checked="" type="checkbox"/> ALL EVENT	ALL	<input checked="" type="checkbox"/>	SEARCH		1	2013/05/16 05:04:01	2	MOTION
<input checked="" type="checkbox"/> SENSOR					2	2013/05/16 04:39:58	2	MOTION
<input checked="" type="checkbox"/> VIDEO LOSS	CH 1	<input checked="" type="checkbox"/>	CH 2	<input checked="" type="checkbox"/>	3	2013/05/16 02:00:35	2	MOTION
<input checked="" type="checkbox"/> MOTION DETECTION			CH 3	<input checked="" type="checkbox"/>	4	2013/05/16 00:30:14	2	MOTION
			CH 4	<input checked="" type="checkbox"/>				

🔗 11: display the playback video as a result of searching.

🔗 12: show the current playback mode, speed and direction.

## **VITEK LIMITED PRODUCT WARRANTY**

VITEK products carry a three (3) year limited warranty. Digital recording and storage products are also warranted for 3 years except for the hard drives which carry their own independent factory warranty from the hard drive manufacturer. VITEK warrants to the purchaser that products manufactured by VITEK are free of any rightful claim of infringement or the like, and when used in the manner intended, will be free of defects in materials and workmanship for a period of three (3) years, or as otherwise stated above, from the date of purchase by the end user. This warranty is non-transferable and extends only to the original buyer or end user customer of a Vitek Authorized Reseller.

This warranty shall not apply to repairs or replacements necessitated by any cause beyond the control of VITEK, including but not limited to, acts of nature, improper installation, excess moisture, misuse, lack of proper maintenance, accident, voltage fluctuations, or any unauthorized tampering, repairs or modifications. This warranty becomes VOID in the event of alteration, defacement, or removal of serial numbers.

Within the first 6 months of purchase, VITEK will replace or credit any defective product at the request of the customer (subject to availability) with a new product that equals or exceeds the performance of the original product purchased.

Within the first 6 months of purchase, at its sole discretion, VITEK may issue an advance replacement for a defective product; however, all related costs including, but not limited to shipping and/or delivery charges will be the responsibility of the customer. If upon return inspection a product is determined to be in good working order or shows evidence of misuse, the customer will be responsible for full payment of the original product purchased as well as the replacement product.

Beyond the first 6 month period for the remainder of the warranty, VITEK'S responsibility shall be limited to repairing the defective product, including all necessary parts and related labor costs. At its sole discretion, VITEK may choose to either exchange a defective product or issue a merchandise credit towards future product purchases. Any replacement parts furnished in connection with this warranty shall be warranted for a period not to exceed the remaining balance of the original equipment warranty.

A Return Authorization number or "RA" number must be obtained prior to the return of any item for repair, replacement, or credit. VITEK requires that this "RA" number be clearly printed on the outside of the shipping carton to avoid refusal of said shipment. The Return Authorization number expires after 30 days. Products returned after the 30 day period will be subject to refusal. Shipping charges, if any, must be prepaid. A copy of the bill of sale (or invoice of purchase), together with a complete written explanation of the problem must accompany all returns.

Vitek makes no warranty or guarantee whatsoever with respect to products sold or purchased through unauthorized sales channels. Warranty support is available only if product is purchased through a Vitek Authorized Reseller.



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