

## **Real-time**

## HD-SDI DIGITAL VIDEO RECORDER

## **User's Manual**

## Visit our website for detailed product spec

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### **Regulatory Information**

# FC

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

**FCC Conditions** This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

CE

**Attention!** This is a class A product which may cause radio interference in domestic environment; in this case, the user may be urged to take adequate measures.

#### **Safety Precautions**

- To reduce risk of fire or electric shock, do not expose this appliance to rain or moisture.
- Do not place the appliance near to heaters, other heat sources or under direct solar irradiation.
- Make sure the ventilation slot on the appliance is not covered during operating.
- To prevent risk of electric shock, connect only to a proper earth grounded outlet. Do not operate appliance with other none specified power supplies.
- Do not attempt to modify or use the supplied AC power cord if it is not the exact type and rating required.
- Do not attempt to disassemble the appliance. Contact qualified service personnel for maintenance.
- Handle the appliance with care. Do not strike or shake, which may damage the appliance.

#### Notice

• Information in this document is subject to change without notice.

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### 1 Introduction

The 4/8/16 channel HD-SDI DVR transmits the uncompressed Full HD (1080P) video image over coaxial cables. It performs the high definition image with zero loss and low latency of image data when viewing the video. The DVR provides the easy-to-install benefit that allows users to view the HD megapixel image without requiring having the complicated knowledge of IP based system. It is the ultimate solution for high-quality and reliable surveillance system.

#### 1.1 Features

- Dual-Core CPU demonstrates the extreme and industry-leading performance in recording, playback and networking.
- Support 4CH/8CH/16CH 1080p30 real time recording and 4CH simultaneous real time playback.
- High-Speed Gigabit network interface.
- Support dual streaming.
- Remote access through Web, CMS, Mobile App (Android & iOS).
- Easy archive via USB, CD/DVD-RW or network.

### 1.2 Product Specification 4CH HD-SDI DVR

System	
Operating System	Embedded Linux
Operations	Live, Recording, Playback, Backup & Remote access
Control Mode	USB mouse, IR remote control, Webpage
Video	
Compression	4x1080p30 H.264 HP/MP/BP (with dual streams)
Audio	
Input	4 x RCA
Output	1 x RCA
2-way Audio	Support
Display	
Display mode	Full screen/Multi-screen/PIP/Sequence
Output	1x HDMI(1920x1080p60),1xVGA(up to 1920x1080, 60Hz)
Sequence	Support
OSD	GUI
Recording	
Recording Mode	Continuous,scheduled, alarm, motion
Recording Capability	Up to120 fps at Full HD(1920x1080)
Pre Recording	5 seconds
Post Recording	300 or above seconds
Playback & Backup	
Display mode	Full screen/Multi-screen
Playback control	Play/Pause/Step/Fast forward/Rewind/Fast rewind
Search Control	By Date/Time,Alarm search
Export	Through USB/Webpage
Mobile Viewing on Smartphone/Tablet PC	Yes ; iOS, Android
Internal Storage	2xHDD, 1xDVD(optional)
External Storage	e-SATAx1
Network	
Support	TCP/IP,SMTP,DHCP,DDNS,PPPoE,UDP,SSL,RTP,RTSP,NTP
Ethernet	1x10/100/1000Mbps
I/O	
USB	2; 1 for mouse control and 1 for backup
Alarm	4 Alarm in/ 1 Alarm out
RS485	1; Support Pelco D, Pelco P
Security	
Watermark	Yes
User Privilege	3 Levels of User Access Support
Environmental	
Power	12VDC input
Temperature	0°C ~ 40°C

Note: The specifications are subject to change without any notice.

#### 8CH HD-SDI DVR

System	Description				
Operating System	Embedded Linux				
Operations	Live, Recording, Playback, Backup & Remote access				
Control Mode	JSB mouse, IR remote control, Webpage				
Video					
Compression	8x1080p30, H.264 HP (w/dual streams)				
Audio					
Input	8 x RCA				
Output	1 x RCA				
2-way Audio	Support				
Display					
Display mode	Full screen/Multi-screen/PIP/Sequence				
Output	1x HDMI(1920x1080p60),1xVGA(up to 1920x1080, 60Hz)				
OSD	GUI				
Mobile Viewing on					
Smartphone/Tablet PC	Yes; iOS, Android				
Video Loopout	8 (optional)				
Recording					
Recording Mode	Continuous, scheduled, alarm, motion				
Recording Capability	Up to 240 fps at Full HD(1920x1080)				
Pre Recording	5 seconds				
Post Recording	300 or above seconds				
Network					
Support	TCP/IP,SMTP,DHCP,DDNS,PPPoE,UDP,SSL,RTP,RTSP,NTP				
Ethernet	1x10/100/1000Mbps				
Playback & Backup					
Display Mode	Full screen/Multi-screen				
Playback Capability	Up to 8 channel simultaneous playback				
Playback Control	Play/Pause/Step/Fast forward/Rewind/Fast rewind				
Search Control	By Date/Time,Events,Channel				
Export	Through USB/Webpage/CMS				
Mobile Viewing on					
Smartphone/Tablet PC	Yes ; iOS, Android				
Internal Storage	Up to 6 SATA ports				
1/0					
USB	4; 2 in the front panel, 2 in the back panel				
Alarm	16 Alarm in/ 4 Alarm out				
RS485	1; Support Pelco D, Pelco P				
Security					
Watermark	Yes				
User Privilege	3 Levels of User Access Support				
Environmental					
Power	AC100-240V				
Dimension	430 (W) x 72.5 (H) x 393 (D) mm ± 5mm				
Temperature	0°℃ ~ 40°℃				

Note: The specifications are subject to change without any notice.

#### 16CH HD-SDI DVR

System	Description				
Operating System	Embedded Linux				
Operations	Live, Recording, Playback, Backup & Remote access				
Control Mode	USB mouse, IR remote control, Webpage				
Video					
Compression	16x1080p30, H.264 HP (w/dual streams)				
Audio					
Input	16 x RCA				
Output	1 x RCA				
2-way Audio	Support				
Display					
Display mode	Full screen/Multi-screen/PIP/Sequence				
Output	1x HDMI(1920x1080p60),1xVGA(up to 1920x1080, 60Hz)				
OSD	GUI				
Mobile Viewing on					
Smartphone/Tablet PC	Yes; iOS, Android				
Video Loopout	16 (optional)				
Recording					
Recording Mode	Continuous, scheduled, alarm, motion				
Recording Capability	Up to 480 fps at Full HD(1920x1080)				
Pre Recording	5 seconds				
Post Recording	300 or above seconds				
Network					
Support	TCP/IP,SMTP,DHCP,DDNS,PPPoE,UDP,SSL,RTP,RTSP,NTP				
Ethernet	1x10/100/1000Mbps				
Playback & Backup					
Display Mode	Full screen/Multi-screen				
Playback Capability	Up to 16 channel simultaneous playback				
Playback Control	Play/Pause/Step/Fast forward/Rewind/Fast rewind				
Search Control	By Date/Time,Event and Channel				
Export	Through USB/Webpage/CMS				
Mobile Viewing on					
Smartphone/Tablet PC	Yes ; iOS, Android				
Internal Storage	Up to 6 SATA ports				
1/0					
USB	4; 2 in the front panel, 2 in the back panel				
Alarm	16 Alarm in/ 4 Alarm out				
RS485	1; Support Pelco D, Pelco P				
Security					
Watermark	Yes				
User Privilege	3 Levels of User Access Support				
Environmental					
Power	AC100-240V				
Dimension	430 (W) x 72.5 (H) x 393 (D) mm ± 5mm				
Temperature	0°℃ ~ 40°℃				

Note: The specifications are subject to change without any notice.

#### **1.3** Front Panel

#### 4CH HD-SDI DVR front panel includes:



- 1. IR receiver Receiver for IR remote.
- 2. Power button Power On/Off DVR.
- 3. Status indicators -
  - Power : Indicator turns on when DVR power on.
  - REC : Indicator turns on when DVR is recording.
  - HDD : Indicator turns on when system is accessing hard disk.
  - LAN : Indicator turns on when network access is connected.
  - Alarm : Indicator turns on when alarm is detected.
  - Status : Indicator turns on when system exception alert is detected, such as disk full, disk error, no disk, network disconnect, illegal login, disk over temperature, fan fail, network fail, power loss and IP conflict.
  - CH1~CH4 : Indicators turn on when the video is connected to the system.
- 4. USB port USB port for connecting devices, such as USB mouse or USB flash device.

#### 8CH/16CH HD-SDI DVR front panel includes:



- 1. Power button Power On/Off DVR
- 2. IR receiver Receiver for IR remote
- 3. Status indicators -
  - REC : Indicator turns on when DVR is recording.
  - HDD : Indicator turns on when system is accessing hard disk.
  - LAN : Indicator turns on when network access is connected.
  - Alarm : Indicator turns on when alarm is detected.
  - Status : Indicator turns on when system exception alert is detected, such as disk full, disk error, no disk, network disconnect, illegal login, disk over temperature, fan fail, network fail, power loss and IP conflict.
  - CH1~CH16 : Indicators turn on when the video is connected to the system.
- 4. USB port USB port for connecting devices, such as USB mouse or USB flash device.

#### 4CH HD-SDI DVR rear panel connectors are:



- (1) Power: Plug the DV12V power source into the power socket.
- (2) Audio Out: Connect a speaker or other audio output device to the audio output connector.
- (3) Audio In: Connect the microphone or camera audio output to the audio input connectors.
- (4) SDI In: Connect HD-SDI camera's video output to the SDI video input connectors.
- (5) Alarm In: Connect up to 4 alarm inputs to the alarm input connectors.
- (6) Alarm Out: N.C or N.O type alarm signal out.
- (7) RS485: Connect a Pan/Tilt/Zoom camera to the RS485 port.
- (8) HDMI: Connect a HDMI monitor to the HDMI output connector.
- (9) VGA: Connect a VGA monitor to the VGA output connector.
- (10) LAN: For RJ-45 network connection.
- (11) USB: For connecting devices, such as USB mouse or USB flash device.
- (12) eSATA: For connecting to external SATA HDD or disk array.

#### 8CH/16CH HD-SDI DVR rear panel connectors are:



- (1) Power: Plug the power source into the power socket.
- (2) Audio IN: Connect the microphone or camera audio output to the audio input connectors.
- (3) Alarm Out: N.C or N.O type alarm signal out.
- (4) Alarm In: Connect up to 16 alarm inputs to the alarm input connectors.
- (5) Audio Out: Connect a speaker or other audio output device to the audio output connector.
- (6) SDI In: Connect HD-SDI camera's video output to the SDI video input connectors.
- (7) HDMI: Connect a HDMI monitor to the HDMI output connector.
- (8) VGA: Connect a VGA monitor to the VGA output connector.
- (9) LAN: For RJ-45 network connection.
- (10), (11)USB: For connecting devices, such as USB mouse or USB flash device.
- (12) Ext. IR: Connect IR extension cable to Ext. IR port to increase the range of an infrared signal.

#### **1.5** Remote Control (Optional)

The DVR can be operated through the remote controller. The remote control operation is showing in below figure. Batteries (2xAAA) must be installed before operating.



- ID Button: Press ID button + number key to switch to the DVR that user would like to control. Press a number between 1 and 9 corresponding to the unit ID you wish to control. The user ID must be set in the device before operating.
- 2. Export Button: Enable/disable Export menu.
- 3. F1/F2 Button: Reserved.
- 4. ACK Button: Alarm acknowledged.
- 5. Alphanumeric Buttons
- 6. **Display Button:** Press to switch the display mode.
- 7. **Sequence Button:** Press to enable/disable sequence display mode.
- 8. **Zoom Button:** For digital zoom in/out operation under digital zoom mode. Or for zoom in/out control under PTZ mode.
- 9. **Focus Button:** For focus control under PTZ mode.
- 10. **PTZ Button:** To enable/disable PTZ control menu.
- 11. **Direction/Enter Button:** The Direction buttons are used to navigate the focus display windows or select items in the menu. The Enter button is used to confirm the selection.
- 12. Search Button: To enable/disable playback mode.
- 13. **Menu Button**: To enable/disable configuration menu.
- 14. **Playback Control Buttons: S**ame as playback operation on playback mode.
- 15. **PTZ control Buttons:** Same as PTZ control operation on PTZ mode.

#### 1.6 **Packing Detail and Installation**

#### 1.6.1 Packing

4CH HD-SDI DVR packing includes the below. Digital video recorder x 1 IR remote control x 1 User manual disc x 1 Power adapter x 1 Power cord x 1 Alarm terminal block x 2 SATA connection cable x 2 (\*) Hard drive mounting bracket x 4 (\*) Screws for mounting hard drive x 8 (\*) Screws for mounting bracket x 8 (\*)

(\*) The accessory quantity may be different for some models.

#### 8CH/16CH HD-SDI DVR packing includes the below.

Digital video recorder x 1 IR remote control x1 User manual disk x1 Power cord x 1 Alarm terminal block 6P x 2 Alarm terminal block 10P x 2 SATA connection cable x 6 Hard drive mounting bracket x 6 Screws for mounting hard drive x 28 Screws for mounting bracket x 15 DSUB Cable to RCA 8P x 1 for 8CH HD-SDI DVR \*Remark: DSUB Cable to RCA 16P x1 for 16CH HD-SDI DVR

#### 1.6.2 Hard Disk Installation

#### Hard disk installation steps for 4CH HD-SDI DVR.

Step1. Take out the screws on the back panel and two sided as shown in the pictures.





Step2. Slide open the top cover.



Step3. Use the HDD mounting screws attached in the accessory pack to fix the mounting brackets to the hard drive.

Fix the hard drive to the screw holes indicated as in the below pictures to make sure the hard drive is well installed for mounting to the chassis.



Step4. Connect SATA & Power wire to Hard Disk and put it on right position of the case. Use the HDD mounting screws attached in the accessory pack to fix the hard drive with bracket firmly on to the chassis.



Step 5. Connect the SATA cables to the SATA connectors on the main board. Please refer to the below for the hard drive port numbers and connect the HDD accordingly. The DVR will recognize the hard drives according to the SATA port numbers for the disk management.



\* The SATA port number will be varied for some models.

Step 6. Complete all the installation, put the cover back and secure the screws on the back panel and side panels as indicated in the step 1.





#### Hard disk installation steps for 8CH/16CH HD-SDI DVR.

Step1. Remove the harddisk mounting bracket and hard disk screws from the accessory pack.



Step 2. Fix the harddisk on to the harddisk mounting bracket and fix the screws on to the screw holes as indicated in the diagram. Each set of harddisk brackets can mount 2 harddisks.



Step 3. Remove the screws on the top cover and slide open the top cover. Place the harddisks with brackets into the unit and use the attached harddisk mounting screws to fix the brackets on to the unit.





Step 4. Connect the SATA cables to the SATA connectors on the main board. Please refer to the below for the hard drive port numbers and connect the HDD accordingly. The DVR will recognize the hard drives according to the SATA port numbers for the disk management.



Step 5. Connect the harddisk power cable and SATA cable on to each harddisk. Reassemble the top cover and fix the screws back once all the harddisks are well installed.





### 2 General Operation

### 2.1 Login

It is requested to login after boot up if the user authentication is enabled.

Login		
User		
Password		
	ок	Cancel

Click on the User and Password column to bring up the virtual keyboard to enter the preset user account and password to login to the system.



The default user name/password is:

Administrator: admin/admin Operator: operator/operator Guest: guest/guest

If Auto logout is enabled, the system will automatically logout after the preset time. To login to the system, left click on the mouse to bring up the login menu.

The functions available can be limited by setting passwords. Access to the unit's functions is determined by the user level of the user logged in.

	Administrator	Operator	Guest
View live	Yes	Yes	Yes
OSD	Yes	Yes	Yes
Live Multiple-up	Yes	Yes	Yes
Zoom	Yes	Yes	Yes
Pan/Tilt/Zoom (PTZ)	Yes	Yes	No
Playback	Yes	Yes	No
Export	Yes	Yes	No
Acknowledge Alarm	Yes	Yes	No
Configuration	Yes	No	No

Authority Instructions based on 3 levels of users

#### 2.2 Live Viewing

#### 2.2.1 Basic Operation

The DVR will enter into the Live View mode after user login to the system.

Use mouse to double click on any video channel to bring it up to full screen display.

CH 01 : CAMERA01 V	CH 02 : CAMERA02	CH 03 : CAMERAO3 V	CH 04 : CAMERA04		
				02 🔌	
				0 03 🔍	
				04 14	
				05 40	
				07 20	
				08 🔌	(A)
				09 🔌	
CH 05 : CAMERA05	CH 06 : CAMEBAO6 V	CH 07 : CAMERAD7 V	CH OB : CAMERAOB	10 ML	
				13 1	
				14 NQ	
				15 N	
				16 [40]	
CH 09 : CAMERAO9	CH 10 : CAMERAIO	CH II : CAMERAII	CH 12 : CAMERAI2		
			[		
CH 13 : CAMERA13	CH 14 : CAMERA14	CH 15 : CAMERA15	CH 16 : CAMERA16		
(B)					
(0)		(C)			

The basic operation icons are showing on the main screen, the functions are:

(A) System indicators, Channel selection and Audio output selection

The system indicator is showing general system status for each input channel.



(1) The color of the button stands for the status for each channel as listed:

White – Normal, the camera input is installed and enabled.

Grey – The video input is disabled.

Blue - Video Lost.

Yellow – Motion triggered.

Red – Alarm triggered.

(2) Recording status indicator

Red - Recording

White – Not Recording

(3) Audio output selection

Click on the Audio icon on the channel you would like to display, the audio output will switch to the selected channel.

- (4) To switch channel in the display window, move the focus channel to the selected window, click on the channel button you wish to display, the channel will be switched.
- (B) Display mode control :



Show/Hide OSD



Switch display to full screen display mode

### (C) Function Control



Alarm acknowledge, click to disable buzzer when alarm is triggered



Click to bring up Call Monitor Setup menu



Click to enable/disable Setup menu



Click to bring up Export menu



Click to switch to search and playback mode



Click to switch to search and playback mode



Under full screen mode, click the button to enable Digital Zoom function. Right click on the mouse to drag on the screen to zoom in the selected area.



Click to bring up the PTZ control panel

Click to Logout from the current user's privilege.

### 2.3 Search and Playback Operation

#### 2.3.1 Basic operation



on the main page to

switch to playback mode as show below.



The display mode controls are the same as under Live View mode.

The function controls are as below:



Click to bring up the Export menu



Under full screen mode, click to enable Digital Zoom function.

Right click on the mouse to drag on the screen to zoom in the selected area.



Click to switch to live view mode



Click to take the picture of the selected video

#### 2.3.2 Calendar

The calendar on the screen shows the recorded data contains in the hard drives. The date highlighted in orange means there's recorded data of the date in the hard drives. The red highlighted date indicates the current search date. Click on the calendar to select the date user would like to search.

	2012 Jun						
Su	Мо	Tu	We	Th	Fr	Sa	
27	28	29	30	31	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	

#### 2.3.3 **Search operation**

The recorded file list is showing in the column below, the files can be searched by "Time", "Channel" and "Event". Select the search type and the results will show in the list below. Double click on the selected file then the video will start to play on the display window.

#### 2.3.3.1 Search by Time

Time	Channel	Event
1: 00:00	):00 ~ 00:59	:59
2: 01:00	0:00 ~ 01:59	:59
3: 02:00	0:00 ~ 02:59	:59
4: 03:00	0:00 ~ 03:59	:59
5: 04:00	0:00 ~ 04:59	:59
6: 05:00	0:00 ~ 05:59	:59
7: 06:00	0:00 ~ 06:59	:59
8: 07:00	0:00 ~ 07:59	:59
9: 08:00	0:00 ~ 08:59	:59
10: 09:0	00:00 ~ 09:5	9:59
11: 10:0	00:00 ~ 10:5	9:59

001 / 001

Select Time Search, all the video files of the selected date will be shown in the list. Each file contains maximum 60 minutes of the video. Select the time range user would like to view and double click the item to start to play on the display window.

#### 2.3.3.2 Search by Channel



Select the channel that user would like search. All the event video files of the selected date and channel will be shown in the list. Select the event video user would like to view and double click the item to start to play on the display window.

#### 2.3.3.3 Search by Event



The system provides the option to search the video by each event type and channel. All the event video files of the selected event type and channel will be shown in the list. Select the event video user would like to view and double click the item to start to play on the display window.

#### 2.3.4 Playback operation

Please refer to the below for the playback control function:



### **3** PTZ Control

Click on the "PTZ	" icon icon to en	able the PTZ contr	rol panel as shown	below.	
CH 01 : CAMERAO1 ¥	CH 02 : CAMERA02	C H 03 ; CAMERAO3 V	CH 04 : CAMERAO4	0         0.1         10           0         0.2         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4           0         0.5         0.4	
CH 05 : CAMERAOS	CH 06 : CAMERAO6 V	CH 07 : CAMERAO7 ¥	CH OB : CAMERAOB	0         10         92           0         11         92           0         12         90            0         13         92            0         14         90            0         15         92            0         16         90         Sper           Nor         Pres	Zoom + Focus + Iris + ad mal
CH 09 : CAMERA09	CH 10 : CAMERA10	CH 11 : CAMERA11	CH 12 : CAMERA12	Quic 1 6	0 Go Set x Preset 2 3 4 5 7 8 9 10
CH 13 : CAMERA13	CH 14 : CAMERA14	CH 15 : CAMERA15	CH 16 : CAMERA16		
			© 2013-05-27 05:57:56pm		

The PTZ control will apply the PTZ command to the current focus camera channel if it's connected to a PTZ device.

The functions are:

- 8 way pan/tilt control: To pan/tilt the PTZ device to up/down/left/right/up right /up left /down right / down left.
- Zoom + / : Zoom in or Zoom out

1000

- Focus + / : To adjust focus to near or far
- Iris + / : To adjust Iris to open or close
- Speed : There are five levels of speed (Lowest/Low/Normal/High/Highest) can be applied when press the pan/tilt control.
- Set: To save the current PTZ position as it's internal preset position.
- Go : Go to the preset position
- Quick Preset 1 10 : The quick button to go to the preset positions.

### 4 Export Video



To export the video from DVR hard disk to external device, click "Export" icon to bring up the Export menu shown as below.

Export	e
Start Time	2013-05-25 10:00:32am
Record Duration	10 Mins
🔽 СН 1 🔲 СН 2	СН З СН 4
СН5 СН6	СН7 СН8
	CH 11 CH 12
CH 13 CH 14	CH 10
1 CH01_20130525100032_20	130525101032.avs 2 MB
Total size: 2 MB, Free size	O MB
Path	
	Exit Start

Connect the external storage device to the USB port on the unit before executing the exporting process.

- Start time: Click on the date/time, the calendar will pop up on the screen for user to select the date and input the start time.
- Record Duration: Input the data duration to be exported.
- Channel: Select the channels to be exported.

The data contents will be shown in the list. The total data size and available external storage size will be shown under the list.

User can assign the recording path by clicking the "Dopen Folder" icon. Click Start to execute the exporting process.

User can view the exported video by the Export Player. Click Export Player to download to the pen drive if the user does not have the Export Player installed.

### 5 Export Player

The Export Player allows user to view video exported from the DVR or Web viewer on a PC.

(System operating platform: Windows XP, Windows Vista, or Windows 7.)

#### 5.1 Installation

The Export Player can be downloaded from DVR or Web Viewer.

On the DVR, insert the USB pen drive then start the Export page as shown below.

Click Export Player button and the system will automatically store the Player in the pen drive.

Export
Start time       2012-11-07 11:23:40am         Record Duration       10 mins         ✓ CH 1       CH 2       CH 3       CH 4         1       CH01_20121107112340_20121107113340.avs       0 MB
Total size: 0 MB, Free size: 7165 MB Path /

#### 5.2 Starting the Program

Double click on the Player.exe file to start the program.

				×
●●● - 電腦 → 抽取式磁	碟 (D:) ▶	• 4	9 現章法取式磁	I (D) P
組合管理 ▼ 共用對象 ▼ 幕	新増資料夾			i= • 🖬 🔞
▲ (學) 電腦	名稿	修改日期	類型	大小
Windows7_OS (C:)	B Player	2012/11/14 上午 08:42	應用程式	3,169 KB
▲ 抽取入設護(U:)				

The Player will be displayed as shown below:



To open a video export file, click Open button to select the exported file. Drag the files to the window that would like to display. The Player will automatically start to play the video.

Note: The Player can only play multiple channels that are within the same time duration.

The main functions are:



Single view display mode



Quad display mode



Under full screen mode, click to enable Digital Zoom function. Right click on the mouse to drag on the screen to zoom in the selected area.



Click to take a snapshot of the selected video.



Click watermark icon to verify the video is authentic or not.



The progress bar shows the current playback status and timeline. Drag the time

indicator on the progress bar to move to the selected timeline to playback.



- Click to enable or disable audio playback. Drag the slide bar to adjust the volume. When audio is on, the user can move the focus window to the select the channel that would like to play.
- Click to convert the video file of the selected channel to AVI format.

### 6 System Setup Menu



Click the "Settings" icon *Lice*, the setup menu will be enable and shown as below.

Please refer to below for the setup menu functions

CH 01 + CAMERAD1 V	CH 02 · CAMERA02	CH 03 1 CAMERA03 V	CH 04 · CAMERA04	Camera
CARLEN TO L				Settings
				Record
				0 04 🚳 🗰 Schedule
				05 Network
				Settings
				0 08 🔍 👘 Notification
				Os 🔍 Alarm
CH 05 : CAMERA05	CH 06 : CAMERAO6 V	CH 07 : CAMERA07 V	CH 08 : CAMERAOB	● 10 🚳 🧨 Settings
				11 12     Exception
				O 13 ₩ System
				0 14 🔍 E Device
				0 15 10 Liser
				Date/Time
				Display
				Disk
CH 09 : CAMERA09	CH 10 : CAMERA10	CH 11 : CAMERA11	CH 12 : CAMERA12	I Mise
				Configuration
				Information
				Information
				tog
CH 13 : CAMERA13	CH 14 : CAMERA14	CH 15 : CAMERA15	CH 16 : CAMERA16	
	I 🔲 🔳 🖃 🔲 🔀 🔞	. 🖅 🔀 🐼 🖾 🔺	○ 2013-05-27 05:47:27pm	

#### 6.1 Camera

The camera setup menu allows user to configure the behaviors related to the input video.

#### 6.1.1 Settings

Display the current camera connecting status, including camera title, camera type and camera status.

If user changed settings on camera, it is suggested to reload the camera status by clicking the "Manual detect" button.

amo	era		
ID	Camera Title	Camera Type	Status
01	CAMERA01	HD-SDI: Unknown	VLose:
02	CAMERA02	HD-SDI: 1080P30	Normal
03	CAMERA03	HD-SDI: Unknown	VLoss
04	CAMERA04	HD-SDI: 1080P30	Normal
05	CAMERA05	HD-SDI: 1080P30	Normal
06	CAMERA06	HD-SDI: Unknown	VLoss
07	CAMERA07	HD-SDI: Unknown	VLoss
08	CAMERA08	HD-SDI: 1080P30	Normal
09	CAMERA09	HD-SDI: 1080P30	Normal
10	CAMERA10	HD-SDI: 1080P30	Normal
11	CAMERA11	HD-SDI: 1080P30	Normal
12	CAMERA12	HD-SDI: 1080P30	Normal
13	CAMERA13	HD-SDI: 1080P30	Normal
14	CAMERA14	HD-SDI: 1080P30	Normal
15	CAMERA15	HD-SDI: 1080P30	Normal
16	CAMERA16	HD-SDI: 1080P30	Normal
	_	_	_

Click on the camera for detail setup of each camera.

#### 6.1.1.1 Basic Setting

Camera		C
CH 1		
Basic Advanced	Video Loss Handle   Motion Handle   PTZ	
Enabled	OFF ON	
Camera Title	CAMERA01	
Conv	Back	Apply
Сору		

• Enabled – To enable or disable the selected camera.

(Note: When disable the selected camera, DVR will stop recording for the selected camera.)

- Camera title Click on the column, the virtual keyboard will pop-up for user to input the camera title.
- Copy Click Copy to copy the settings to other cameras.

Click "Apply" to save all the changes, or Back to back to the previous setup page.

#### 6.1.1.2 Advanced Setting

The advance setting allows user to configure the privacy mask and motion detection area.

#### 6.1.1.2.1 Privacy Mask Settings

Click Privacy Mask Setting button to bring up the privacy mask setup page.



• Enabled – To enable or disable privacy mask for the selected channel.

Click on the mouse to drag the area that would like to be masked.

Click Undo to undo the step, Clear to clear all the set area, Exit to leave the setting page.
# 6.1.1.2.2 Motion Area Settings

Click Motion Area Setting button to bring up the motion area setting page as below.



- Enables Select On/Off to enable or disable the option.
- Sensitivity Select the sensitivity, from lowest to highest.
- Target Threshold The target quantity to trigger the motion.

Click "Apply" to apply the setting, Undo to undo the step, Clear to clear all settings, Preview to view the current settings, Exit to leave the setup page.

## 6.1.1.3 Video Loss Handle Settings

Allows user to define the system behaviors while there's video loss triggered.

Camera	•
CH 2	
Basic Advanced Video Loss Hand	dle Motion Handle PTZ
Buzzer	OFF ON
Trigger Alarm Out	1 2 3 4
Send Email	OFF ON
Triggered Camera	1 2 3 4 5 6 7 8
	9 10 11 12 13 14 15 16
Сору	Back Apply

- Buzzer Select On to trigger buzzer when video loss is detected.
- Trigger Alarm Out The corresponding alarm output setting.
- Send E-mail Select On to send e-mail to the preset mail account when video loss is detected.
- Send Alarm Notification Select On to send alarm notification when video loss detected. (Reserved)
- Triggered Camera The system allows user to trigger multiple cameras for event recording, select the cameras that would like to be triggered when video loss is detected.

# 6.1.1.4 Motion Handle Settings

Allows user to define the system behavior while there's motion triggered.



- Buzzer Select On to trigger buzzer when motion is detected.
- Trigger Alarm Out The corresponding alarm output setting.
- Send E-mail Select On to send e-mail to the preset mail account when motion is detected.
- Send Alarm Notification Select On to send alarm notification when motion detected. (Reserved)
- Triggered Camera The system allows user to trigger multiple cameras for event recording, select the cameras that would like to be triggered when motion is detected.

## 6.1.1.5 PTZ settings

Allows user to configure the settings if it is connected to a PTZ camera.

Camera	•
CH 2	
Basic Advanced	Video Loss Handle Motion Handle PTZ
Enabled	OFF ON
PTZ Type	RS485 PTZ
PTZ Protocol	PelcoD
	PelcoP
Baud Rate	9600
Data Bit	7 8
Parity	None Odd Even
Stop Bit	1 2
Address	
Сору	Back Apply

- Buzzer Select On to enable PTZ setting if it is connected to a PTZ camera.
- PTZ Type Select the PTZ camera type
- PTZ Protocol Select the correct PTZ protocol type.
- Baud Rate Select the speed used to transmit instruction or information through the RS485 port on the DVR.
- Data Bit The data bit used for transferring. This can be set to 8 or 7.
- Parity: This selects the transmission level of the connection. Choose either None, Odd, or Even.
- Stop Bit This field is to set the stop bit for the RS485 connection. This can be set to 1 or 2.
- Address The address must set to the same address of that PTZ camera.

# 6.1.2 Record Settings

User can define the recording behavior in the record setup menu. Each channel can be configured independently.

Record		<b>©</b>
CH 1	Bitrate Type	VBR CBR
CH 2	Record Audio	OFF ON
сн з	Pre-event (0 ~ 5)	2 Seconds
CH 4		
CH 5	Post-event (0 ~ 255)	10 Seconds
СН 6	NORMAL RECORD :	
CH 7	Resolution	1920x1080 FHD
CH 8	Frame Rate	30 fps
СН 9	Quality	110 - 8192Kbps
CH 10	Quanty	C10 - 0192R0ps
CH 11	EVENT RECORD :	
CH 12	Resolution	1920x1080 FHD
CH 13	Frame Rate	30 fps
CH 14	Quality	110 8102Kbm
CH 15	Quanty	L10 - 8192KDps
CH 16		
	Record Timestamp	OFF
		or i top
	Canr	Apply
	COPY	Apply

Click on the selected channel to bring up the setup page.

- Bitrate Type VBR for Variable bitrate, CBR for Constant bitrate.
- Record Audio Enable or Disable the audio recording.
- Pre-event Set the pre-event recoding duration. The maximum pre-recording duration is 5 seconds.
- Post-event Set the post-event recording duration.
- Normal record Set the recording resolution, frame rate and quality under normal record condition.
- Event record Set the recording resolution, frame rate and quality under event record condition.
- Record timestamp Select to enable or disable timestamp and set the position on the recording data.
- Copy To copy the setting to the other channels.

Click "Apply" to save the settings.

# 6.1.3 Schedule Settings

User can define the recording schedule and recording behavior for each channel in the below page.

Schedule	(
CH 1	Sun Mon Tue Wed Thu Fri Sat
CH 2	
СН З	CH1 Schedule Settings on Monday
CH 4	
CH 5	00 :00 ~ 24 :00 Normal + Event Recording
CH 6	Dec 100 24 100 Normal + Event Recording
CH 7	00 00 ~ 24 00 Normal + Event Recording
CH 8	00 : 00 ~ 24 : 00 Normal + Event Recording
СН 9	00 : 00 ~ 24 : 00 Normal + Event Recording
CH 10	00 : 00 ~ 24 : 00 Normal + Event Recording
CH 11	00 :00 ~ 24 :00 Normal + Event Recording
CH 12	
CH 13	
CH 14	
CH 15	
CH 16	
	Day Copy Apply
	СН Сору

To setup schedule, select the channel from the left column, the recording option for the channel will be shown in the right column.

Click on the day you would like to set schedule, check in the column to enable the timelines and select the recording behaviors.

User can configure multiple timelines for each day.

Click "Apply" to save the setting.

To copy the setting, click "Day Copy" to select the day you would like to copy to. "Channel Copy" allows user to copy the settings of the whole week from one channel to other channels.

## 6.2 Network

# 6.2.1 Network Settings

The Network function must be enabled and configured properly in order to access the DVR over the network.

# 6.2.1.1 LAN Setting

The DVR provides the options for user to access to the DVR through DHCP, Fixed IP or PPPoE. Select the option you would like to use to enable and configure the settings.



## 6.2.1.1.1 DHCP

If user has a DHCP server set in the network environment, select DHCP and the DVR will automatically obtain the IP address and other network setting showing as below.

Network	
LAN DDNS	
Network Type	Disable DHCP Fixed IP PPPoE
IP Address	192.168.001.146
Subnet Mask	255.255.255.000
Default Gateway	192.168.001.002
Primary DNS	168.095.192.001
Secondary DNS	168.095.001.001
MAC Address	08:7d:21:45:f3:dc
HTTP Port No.	80 Apply

Click Apply to save the settings.

## 6.2.1.1.2 Fixed IP

Select "Fixed IP" to enable and configure the fixed IP settings. Enter the network information and click Apply to save the settings.

Network	۲
LAN DDNS	
Network Type	Disable DHCP Fixed IP PPPoE
IP Address	192.168.001.054
Subnet Mask	255.255.255.000
Default Gateway	192.168.001.002
Primary DNS	168.095.001.001
Secondary DNS	168.095.001.002
MAC Address	08:7d:21:00:00:30
HTTP Port No.	80 Apply

## 6.2.1.1.3 PPPoE

The DVR also allows user to use Point-to-Point Protocol over Ethernet (PPPoE) service. Select "PPPoE" to enable and configure the settings.

Network	
LAN DDNS	
Network Type	Disable DHCP Fixed IP PPPoE
IP Address	000.000.000
Subnet Mask	000.000.000
Default Gateway	000.000.000
Primary DNS	000.000.000
Secondary DNS	000.000.000
MAC Address	08:7d:21:00:00:30
PPPoE	
User Name	pppoe user
Password	*****
МТО	0
HTTP Port No.	80
	Apply

Click Apply to save the settings.

# 6.2.1.2 DDNS Settings

Select DDNS to configure the Dynamic DNS, the setup page is shown as below.

Network	Optimized and the second se
LAN DDNS	
Enabled	OFF ON
DDNS Provider	Dyndns http://dyn.com/dns
Domain Name	
User Name	
Password	
	Apply

Select On to enable DDNS. Input DDNS provider and enter the required information. Click Apply to save the settings.

## 6.2.2 Notification

#### 6.2.2.1 E-Mail Notification

Notification	
E-mail Notification	
To E-mail Address 1 To E-mail Address 2 To E-mail Address 3 From E-mail Address Subject	Alert
SMTP Server SMTP Port No. SSL Authentication User Name Password Send Test Mail	25 OFF ON OFF ON Send
	Арріу

- To Email address 1-3: Allows user to input up to 3 email address for alarm message to send to.
- From Email address : Input the Email address of the sender (DVR)
- Email Subject: Input email subject.

- SMTP Server: Assign the SMTP (e-mail) server's name.
- SMTP Port: Assign the port number used by the SMTP server.
- SSL: To enable SSL if mail server needs to be encrypted by SSL.
- Authentication: To enable if the SMTP server requires authentication. (user name / password).
- User name / Password : Input the login user name and password if the SMTP server requires authentication.
- Send test mail : Click to send the test email according to the current settings.

Click "Apply" to save the settings.

# 6.3 Alarm Settings

# 6.3.1 Alarm Input Settings

User can define the alarm behaviors and the corresponding actions for triggered alarm.

Alarm		w .
Alarm Input 1	Enabled	OFF ON
Alarm Input 2	Alarm Name	Sensor 01
Alarm Input 3	Alarm Type	N.O.
Alarm Input 4	Tridder Duration	Timeout 30 Seconds
Alarm Input 5	Theger Duration	Timebut 30 Seconds
Alarm Input 6		
Alarm Input 7	Alarm Handle	
Alarm Input 8	Buzzer	OFF ON
Alarm Input 9	Spot on Main Monitor	OFF ON
Alarm Input 11	Spot on Call Monitor	OFF ON
Alarm Input 12	Trigger Alarm Out	1 2 3 4
Alarm Input 13	Cond Email	
Alarm Input 14	Send Email	OFF ON
Alarm Input 15		
Alarm Input 16	Triggered Camera	1 2 3 4 5 6 7 8
		9 10 11 12 13 14 15 16
		Apply

- Alarm input: Select the alarm input number from 1 to 4, the corresponding settings will show in the window.
- Enabled: Select On to enable the alarm.
- Alarm name : Input the name for the alarm.
- Alarm type : Select the alarm trigger type.
  N.O. Normal open contact, N.C Normal Close contact
- Trigger Duration : Select the trigger type and time duration Timeout – The alarm will last for the set time duration. Transparent – The alarm output remains active until the triggered event ends. Non-Stop – The alarm will be continuously active until user presses "ACK" key.
- Alarm Handle : To configure the system monitor and alert behavior when the alarm is triggered. The settings include buzzer, spot option, trigger alarm out, send Email, send alarm notification.
- Triggered Camera : The system allows user to trigger multiple cameras for event recording, select the cameras that would like to be triggered when alarm is detected.

Click "Apply" to save the settings.

# 6.3.2 Exception Management

The section allows user to define the system behavior when there's an exceptional event occurred.

Exception		$\bigcirc$
Disk Full	Disk Full	
Disk Error	Buzzer	OFF ON
No Disk	Triddor Alorm Out	
Network Disconnect	Trigger Alarm Out	
Illegal Login	Send Email	OFF ON
Disk Over Temperature	Send Alarm Notification	OFF ON
Fan Fail		
Power Loss		
IP Conflict		
		Apply

The exceptional events are including Disk full, Disk error, No disk, Network disconnect, Illegal Login, Disk over temperature, Fan failed, Power loss and IP conflict. Select the exception and define the behaviors as below:

- Buzzer Select On to enable buzzer when the exceptional events occur.
- Trigger Alarm Out Select the Alarm out to trigger when the exceptional events occur.
- Send Email Select On to send Email when the exceptional events occur.
- Send Alarm Notification Select On to send alarm notification when the exceptional events occur. (Reserved)

# 6.4 System Settings

# 6.4.1 Device Setting

Device	
Device Name	device hdsdi4
Device No.	255
Language	English
IR Remote Controller	ID #7
Enable Authentication	OFF ON
	Apply

- Device Name: Input the name for the DVR.
- Device No. Input the number for the DVR.
- Language: Select from the list for the language to be use on the DVR.
- IR Remote: Set the IR remote control ID for remote control use. Each IR remote controller can control up to 9 DVRs.
- Enable Authentication: Select On to active the user login. If user select Off, no User name or password is required to access the system, and all users operate with administrator's right.

Click "Apply" to save the settings.

# 6.4.2 User Settings

User setting page is where user can add or delete users on the system.

User		
10	User Name	C
ID	User Name	Group
01	admin	admin
02	1	admin
03	2	guest
04	4	operator
05	3	admin
06		
07		
08		
09		
10		
11		
12		
13		
14		
15		****
16		
17		
18		
19		
20		
21		
22		
23		

The default user name / password are "admin/admin", "operator/operator" and "guest/guest".

- Double click the selected user or click on 🔯 to edit the user settings.
- Click on to delete the user. However, at least one administrator is required to operate the system.
- Click on 🖬 to add new user.

# 6.4.3 Date/Time Settings

## 6.4.3.1 General Setting



- Adjust Time : Click on the column and the Calendar will pop up on screen for user to adjust the system date and time. Click Apply to enable the settings.
- Time Zone: Set the time zone that the DVR adjusts to when updating from the time server.
- Date Format: Select date format from DD/MM/YYYY, MM/DD/YYYY or YYYY/MM/DD.
- Time Format: Select time format between 12 Hours and 24 Hours.

# 6.4.3.2 DST Settings (Daylight Saving Time)



- Enabled: Select On to enable daylight saving time.
- Start time: Set the start date and time of daylight saving time.
- End time: Set the end date and time of daylight saving time.
- DST Bias: This allows users to select the amount of time to move forward from the standard time for daylight saving time. Available options are 30, 45, 60, 90 and 120 minutes

# 6.4.3.3 NTP Client Settings



- Enabled: Select On to enable NTP synchronization.
- Sync. Interval (mins): Input the frequency that the system automatically updates the time. Click the button "Sync Now" if immediately synchronization is needed.
- NTP Server: Input the time server address for time synchronize. The default NTP server is "time.stdtime.gov.tw".
- NTP Port: The default setting is "123", user can define NTP port according to the network environment.

Click "Apply" to save the settings.

## 6.4.4 Display

The Display setting allows user to define the monitor output behavior.

#### 6.4.4.1 General Settings

Display		$\bigcirc$
General	Main Monitor (	Call Monitor
General Monitor Monitor	Main Monitor 0 Output Resolution	Main Monitor on HDMI & VGA Auto
		Apply

- Monitor Output: To define the monitor display type for HDMI and VGA output. Both monitor output can be for main monitor or call monitor output.
- Monitor resolution: Select the proper resolution for the connected monitor output. The supported resolutions are: 1920x1080, 1440x900, 1366x768, 1280x1024, 1024x768. Select Auto for system to identify resolution automatically.

## 6.4.4.2 Main Monitor Settings

To configure the main monitor display mode and the contents.

Display		0
General Main Monitor	Call Monitor	
Sequence		
Enabled	OFF ON	
Dwell	5 Seconds	
Camera	1 2 3 4 5 6 7 8	
	9 10 11 12 13 14 15 16	
	Apply	

- Sequence enabled: Select On to enable sequence display on main monitor.
- Dwell: Input the dwell time in seconds for sequence display.
- Camera: Select the cameras to be appeared on the sequence display.

#### 6.4.4.3 Call Monitor Settings

To configure the call monitor display mode and the contents.

Display	(
General Main Monitor	Call Monitor
Sequence	
Dwell	5 Seconds
Camera	1 2 3 4 5 6 7 8
	9 10 11 12 13 14 15 16
Call Monitor Setup	Set
	Apply
I	

- Sequence Dwell: Input the dwell time in seconds for sequence display.
- Camera: Select the cameras to be appeared on the sequence display.
- Call monitor setup: Click to bring up the call monitor setup menu as below.

Call Monitor Setup						
Show Ti	tle (	OFF ON				
Sequenc	e Mode 4	OFF ON	1			
Diopidy		5.48 				
					_	
	CH 01	CH 02	CH 03	CH 04	1	
	011 01	011 02	011 03	011 04	3	
					4	
	CH 05	CH 06	CH 07	CH 08	5	
					6	
	CH 09	CH 10	CH 11	CH 12	8	
					9	
	CH 13	CH 14	CH 15	CH 16	10	
		_			11	
					13	
					14	
					15	
					10	

- (i) Show Title: Select On to enable display title on call monitor.
- (ii) Sequence: Enable or disable the sequence display mode.
- (iii) Display mode: Under sequence display, the display mode will be 1 up.

User can select 1 up or 4 up if sequence display is disabled. Also user can assign the display video in each cameo by clicking the channel icons on the right side.

# 6.4.5 Disk

This menu is for user to review and manage the hard disk settings of the DVR.

# 6.4.5.1 General Settings

Disk		D.
General Disk		
Overwrite	OFF ON	
Auto Delete	0 Days	
	Apply	
		100

- Overwrite: Select On to enable hard disk overwrite when it's full.
- Auto delete: The hard disk will automatically erase the data after the selected number of days. Select "0" to disable the function.

Click "Apply" to save the settings.

## 6.4.5.2 Disk Management

This page is to manage and display the information of all the available hard disk. The information is including the hard disk total storage size, current temperature, usage status, available data start/end time.

Disk			۲
General	Disk		
Disk2	GB	Status: No-Disk	
Disk3	GB	Status: No-Disk	
Disk4	GB	Status: No-Disk	
Disk5	GB	Status: No-Disk	
Disk6	GB	Status: No-Disk	
Ext •	Size: 3000GB Temp: Start: 2013-05-25 01:2	: 36°C Status: OK (Overwrite) 23:51am End: 2013-05-27 05:54:59pm Forma	

• Click Format to format the selected hard disk.

WARNING: Format the hard disk will erase all existing data!

# 6.4.6 Miscellaneous

# 6.4.6.1 Shutdown

User can select to reboot or shutdown the system from this page.

Misc	۲
Shutdown Firmware Upgrade	
Reboot System Go	
Shutdown System Go	

## 6.4.6.2 Firmware Upgrade



To upgrade the firmware, connect a USB flash device which contains the firmware version you would like to update. Click "Upgrade" to start the firmware upgrading. The system reboot is required to complete the firmware upgrade.

NOTE: Do not disconnect USB device or turn off the power during the upgrading.

#### 6.4.7 Configuration



- Restore Factory Default: User can load factory default by clicking "Restore" button. Select the items that would like to be excluded from back to the factory default, the selected items will remain as the current values
- User Configuration: Select the configuration name and click "Save" to save the current configuration settings. Or user can select the configuration from the list and click "Restore" to restore the selected settings.
- Import Configuration: Click "Load from USB" button to upload DVR configuration settings from a USB flash device.
- Export Configuration: Click "Save to USB" to save the current DVR configuration settings to a USB flash device.

## 6.5 Information

# 6.5.1 General Information

This page displays the general system information. The information includes model name, firmware version, serial number, LAN IP address and MAC address.



## 6.5.2 Log

This page allows user to filter and review the system event log.

Log		
		Date 2012-11-07
Configuration	Login	Exception
Date/Time	System	Export
Time	Log Type	Description
2012-11-07 11:44:45am	Configuration	[Local] Display Settings Changed.
2012-11-07 11:36:22am	Configuration	[Local] Camera Settings Changed.
2012-11-07 11:31:53am	Login	[Local] User Logout: supervisor
2012-11-07 11:31:45am	Configuration	[Local] Device Settings Changed.
2012-11-07 11:31:37am	Configuration	[Local] Device Settings Changed.
2012-11-07 11:31:20am	Configuration	[Local] Device Settings Changed.
2012-11-07 11:31:05am	Configuration	[Local] Device Settings Changed.
2012-11-07 11:30:46am	Configuration	[Local] Device Settings Changed.
2012-11-07 11:21:15am	Exception	No Disk.
2012-11-07 11:21:15am	Exception	Network Disconnected: Port 1
2012-11-07 11:21:15am	Exception	Power Loss Detected
2012-11-07 11:21:15am	System	System Power ON.
2012-11-07 11:21:11am	Exception	Fan Fail: #1
2012-11-07 10:06:06am	Configuration	[Local] Camera Settings Changed.
2012-11-07 10:10:53am	Exception	Power Loss Detected
2012-11-07 10:10:53am	System	System Power ON.
2012-11-07 10:10:49am	Exception	Fan Fail: #1
2012-11-07 10:10:39am	Time Changed	2012-11-07 10:11:00am->2012-11-07 10:10:39am
		Save To USB Exit

Click the date column and the calendar will pop up for user to select the day to be

displayed. Click the items you would like to review and to show in the event log. The filtered log will be displayed in the page.

Click "Save to USB" with a USB flash device connected to the unit, the filtered log will be saved to the USB device.

# 7 Web Viewer Operation

# 7.1 Connecting to DVR

Users can remote access the DVR through Microsoft Internet Explorer to view live/recorded video and manage the DVR. Before accessing the web viewer, make sure that the PC and DVR are both connected to the internet and the network feature is enabled.

For DVR network setup, please refer to Configuration  $\Rightarrow$  Network  $\Rightarrow$  Settings.

## System Requirement

The following are minimum system requirements for web viewer.

- Operating System: Microsoft Windows XP, Windows Vista, Windows 7
- Support Internet Explorer 8 and above (32 bit)
- CPU : Minimum Intel i3 or higher
- RAM: Minimum 4GB of RAM
- Independent Graphic Card: Minimum 128MB

## 7.2 Login

Open IE browser and input DVR IP address in the address bar.

When accessing this feature for the first time, you will be prompted by the browser to install Active X. The browser will pop up the below dialog for installation, click"Yes" to accept and start the installation.

🛞 User Account Control	x	
Do you want to allow the following program to make changes to this computer?		
Program name: View Verified publisher: LOFT File origin: Down	Ocx.cab <b>Y TECHNOLOGY CO., LTD.</b> nloaded from the Internet	
Show details		
	Change when these notifications appear	



After installing the Active X, the login page will be displayed for users to enter the User name and Password. Users can also select the OSD language, date format and time format from the login page. Click "Login" to enter the web viewer.

User Name:			
Password:			
Language :	English	•	
Date Format :	YYYY/MM/DD	•	
Time Format :	12H	•	

The user name/password are the same as the DVR login, the defaults are:

Administrator:	admin/admin
<b>Operator:</b>	operator/operator
Guest:	guest/guest

# 7.3 Remote Live View



After login to the system, the web viewer will automatically display a 4-screen live video. Double click on a video display window and it will display full screen in the selected channel.

The system indicators on the screen show the system status, channel status and for user to control the audio display channel. Please refer 2.2.1 Basic Settings.

The basic operation icons are showing on the main screen, the functions are:



Click for Live view mode



Click to switch to search and playback mode



Click to switch to Setup menu



Click to switch to Export mode



Click to enable the PTZ control panel



Click to Logout from the current user's privilege.



Full screen display mode





Show/Hide OSD



Two-way audio



In full screen, click to zoom in/out of the selected video in 2x, 4x and 8x.

Click to take a snapshot of the selected video.

**Note:** For remote snapshot, please disable the protected mode in the IE browser as below 2 steps to ensure the remote snapshot perform normally.

Step 1. Please click IE browser "Tools-Internet Options".



**Step 2.** Please un-click "Enable Protected Mode" to disable protected mode. Then snapshot will perform normally in un-protected mode.

Internet Options					
General Security Privacy Content Connections Programs Advanced					
Select a zone to view or change security settings.					
Internet Local intranet Trusted sites Restricted sites					
Internet					
This zone is for Internet websites, except those listed in trusted and restricted zones.					
Security level for this zone					
Allowed levels for this zone: Medium to High					
Medium-high  Appropriate for most websites  Prompts before downloading potentially unsafe  content  Unsigned ActiveX controls will not be downloaded					
Enable Protected Mode (requires restarting Internet Explorer)   Custom level   Default level					
Reset all zones to default level					
OK Cancel Apply					

## 7.4 Remote Search and Playback

Click the "Playback" button to switch to playback mode. The video can be searched by Time, Channel and Event, select the search type to start searching.

## 7.4.1 Search by Time

♥ 🥭 http://192.168.1.140/		🔎 🗧 🤧 🗶 🙋 HDSDI DVR 🛛 🗙		
5 編輯(E) 檢視(V) 我的最多	記(A) 工具(D) 説明(H)			
		_		
100	0. % &			
November, 2012 • Pl	ayback			
Mo Tu We Th Fr Sa	Index	Time	Content	
7 8 9 10	1	2012-11-12 00:00:00	Record	
12	2	2012-11-12 01:00:00	Record	
19 22 21 22 23 24	3	2012-11-12 02:00:00	Record	
26.27.26.29.30	4	2012-11-12 03:00:00	Record	
	0	2012-11-12 04:00:00	Record	
	7	2012-11-12 05 00 00	Record	
Search	9	2012-11-12 00:00:00	Record	
	9	2012-11-12 07 00:00	Record	
rch management	10	2012-11-12 09 00 00	Record	
e Time	11	2012-11-12 10 00 00	Record	
	12	2012-11-12 11:00:00	Record	
100	13	2012-11-12 12:00:00	Record	
	14	2012-11-12 13:00:00	Record	
100	15	2012-11-12 14:00:00	Record	
	16	2012-11-12 15:00:00	Record	
	17	2012-11-12 16:00:00	Record	
	18	2012-11-12 17:00:00	Record	
		First Previous 1 (Total: 1) Go	Next Last	
				No. of Concession, name
_				and the second se
				and the second second
				Contraction of the local division of the loc
				The second s

The calendar on the screen shows the recorded data contains in the DVR hard drives. The date highlighted in orange means there's recorded data of the date in the hard drives. The red highlighted date indicates the current search date. The recorded section list of the current selected day will be shown on the screen. Double click on the selected recorded file to start the playback.

# 7.4.2 Search by Channel



Search by Channel allows user to search the event video by channel. Select the date from the calendar, and select the channel user would like to view. The event video list of the selected channel will be shown on the screen.

Double click on the selected recorded file to start the playback.

## 7.4.3 Search by Event



Search by event allows user to search the event video list by channel and by event type. Select the channel user would like to view (user can also click All On or All off to enable or disable all channels), then select the event type (Alarm, Motion and Video Loss), the event video list of the selected channel and event type will be shown on the screen. Double click on the selected recorded file to start the playback.

# 7.4.4 Web Viewer Playback Operation

The basic playback operations are as below.

	□ • × • •			<b>D</b> 10	
	CH01 :	CH02:	CH03:	CH04:四四四	
04 x0 12 x0 05 x0 13 x0 06 x0 14 x0 07 x0 15 x0	CHOCH #assesser #	CH06 :	CH07 :	CHOSE CAMERAOS	
	CHOS: CAMERAOD	CH10 : CAWERATO	CH11: CAMERAIT	CH12: CAMERA12	
	CH13 : CAMERA13	GH14 : CAMERA14	CH15 : CAMERA15	GH18 : GAMERA15	
	2013-05-29 06:45:22 pm			2013-05-29 06:55:22 pm	
~	н		- Pause +	2013-05-29 06:45:23 pm	





The progress bar shows the current playback status and timeline. Drag the time indicator on the progress bar to move to the selected timeline to playback. On the time bar, it also indicates the initial and end time of the current playback section.

►	(
П	(
hh	

Click to playback video

Click to pause video

- Click to switch to fast forward playback (2x), user can also control the playback speed by clicking **+** and **-**, in x0.25, x0.5, x1, x2, x4 and x8.
- **M**

Click to fast forward to the next section

Click to fast backward to the previous section
### 7.4.5 Web Viewer Setup Menu

Click on the "Config" menu icon to switch to the setup menu page as below.

	🖵 💽 <mark>%</mark> 🗹	
Camera	Camera	
Record	CH 01	Basic Advanced Video Loss Handle Motion Handle PTZ
E Schedule	CH 02	
Network	CH 03	Camera CH 01
Settings	CH 04	Enabled
Notification	CH 05	Camera Title 1111efm@@
Alarm	CH 06	
Settings	CH 07	
Exception	CH 08	
System	CH 09	
Device	CH 10	
User	CH 11	
Date/Time	CH 12	
Display	CH 13	
📼 Disk	CH 14	
C Misc	CH 15	
Configuration	CH 16	
Information		Apply Copy
📇 Log		

User can configure all the DVR settings remotely through the web viewer. The setup menu operation is the same as in the DVR. Please refer to the Chapter 6 System Setup Menu for the setup details.

# 7.4.6 Remote Export



	📮 🖾 💥 💕 💽		
May, 2013     Su Mo Tu We Th Fr Sa     Tu We Th Fr Sa     Tu Ha	Export Index 1 2 3 4	Elle Name CH45: 2019502415203 201950245228 avs CH10: 2019502415128: 2019502415228 avs CH12: 2019502415128: 201950241528 avs CH12: 201950241528: 201950248 CH12: 201950241528 avs CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950241528 CH12: 201950245 CH12: 201950245	10079-5720 596 MB 403 MB 403 MB 410 MB
Time: 16 v 12 v 28 v Duration: 10 Mins	5	CH16 20139529161228 20139529162228 avg	402 MB
Channel: CH 1 CH 2 CH 3 CH 4 CH 5 CH CH 6 CH 7 CH 8 CH 8 CH 10 CH 12 CH 12 C			
All On All Off Search Export Player			

To export the video, select the date from the calendar, the starting time of the video and channels that user would like to export. (Click All On or All off to enable or disable all channels.) Input the duration time you would like to export, the maximum search duration is 60min. Click Search to start, the searched video files will be listed on screen.

The maximum video file size is 2000MB, the system will automatically create new file if the searched result is over 2000MB.

Double click on the selected item and the system will pop up message as below, select the location user would like to store then click Save to execute the downloading.

-						- 78.2			1	- 🖸 🛛
▲ 另存新備				*						
🕒 💭 = 🤷 🛛 🗮 🕨 Windo	ows7_OS (C:) +	▼ 49 渡蓉Window	47 <u>,05 (C)</u>	P	CER N				a Mar	ndu Wan <b>a M</b>
組合管理 ▼ 新爆資料支			)II •	0	STRUCE #				P P M MO	
> ■ 医片 ▲ 名明	· ·	修改日期	頭型	·						
2 🚜 家用都组	DVR export video	2012/11/9 下午 0	模套管科交							
- 1響 電腦					_	_	-		-	
Windows7_OS						mage Size				
p pub (\\192.168				21114104830.a	VS	1164 MB		-		
				21114102146.a	VS	2000 MB		1000		
» 🗣 網路				+ 21114104830.a	VS	1607 MB				
			£	21114102131.a	VS	2000 MB		- Contractor		
檔案名稱(N): CH01_2012	1114094830_20121114102624			- 21114104830.a	VS	1636 MB	_	1000		
存模類型(T): AVS 模式				· 21114104830.8	VS	DUT MB		- Longe		
· 陽親資料夾		存檔(S)	Rij							
Channel: 01 ☑ 02 ☑ 03 ☑	04 🗹									
All On All	Off									
Search										
	信要開設或儲存來自 192.168.1.54 (	9 CH01_20121114094830	201211141026	24.avs 嗎?	開設(O)	儲存(S) *	取满(C)	) ×		
💿 🙆						ã 🕈 🗍	00%) C	- 19 19	() al 😽	下午 03:42 2012/11/14

User can view the exported file on the Export Player. If the user does not have the Player installed in the PC, click Export Player button to download the player to the PC. Please refer to Chapter 5 for Export Player operation.

# 7.4.7 Remote PTZ Control

Click the "PTZ" icon to enable the PTZ control panel. This allows user to control the connected PTZ camera.



The basic operation is the same as the DVR PTZ control. Please refer to Chapter 3 for detail operation.

### 7.4.8 Remote Snapshot

Click the "Snapshot" button in live mode or playback mode to store the current image as a still image and save in the PC folder.





# 7.4.9 Remote Digital Zoom

The function allows user to enlarge the live video at 2x, 4x and 8x in live mode or in

playback mode. Move the focus to the selected video. Click "Full Screen"

first and then click "Digital Zoom" icon and the selected area which user would like to enlarge.



# 8 VS Viewer for iOS and Android

### 8.1 Android System

#### System requirement

To be able to install and run VS viewer, please make sure your Android device is running Google Android 2.2 or later, and the device is with wireless network supported.

#### **Download the APP**

Step1. Launch "Google Play Store"



**Step2.** Search for "VS Viewer", tap Install, the system will pop-up the menu for user to Accept & download the APP. The download should then begin. The VS Viewer icon will show on the device after the download is completed.



**Step3.** Tap "VS Viewer" icon to launch the APP.



**Step4.** Tap "Add" to add new DVR.

÷	().	'ull 🔍	I0:46
VS Viewer			
100	-		
Add		Edi	t

**Step5.** Input DVR name, Host (IP Address), Port, User name and Password. Tap on "Save" to activate the settings.

\$	((**	ull 💷	⑦ 10:48
VS Viewer			
DVR			
Name			$\odot$
Host			۲
HTTP Port			80 📀
RTSP Port			554 🕥
User			۲
Password			۲
Second Stream			~
	SAVE		

# To operate the APP

Tap on the DVR or NVR that user would like to open the view window.



Rotate the screen, the orientation of the screen rotates with the tablet as you turn it.

#### To select the view channel

Tap on to switch the display mode between full screen and quad screen

display. Select the display mode, and indicate the channel by tap on the number that user would like display in the selected display window.



again to hide the selections.



# PTZ Control

Tap on **I** in full screen to enable PTZ control.

• 8 way pan/tilt/zoom control: To pan/tilt the PTZ device to up/down/left/right/up right /up left /down right / down left.



<sup>6</sup> : Tap to Zoom in or Zoom out



: To adjust focus to near or far



: To adjust Iris to open or close



: Tap to go to Home position.



• Preset: Tap on Preset to bring up the preset menu for operations.



#### Others

- To enable/disable audio display
- Under full screen mode, tap on the icon to enable the digital zoom function. To operate, place two fingers at once on the display window and pinch them together to zoom out, or spreading them apart to zoom in. The zoom in/out display ratio will be shown on the screen. (from 0.2X to 25X)
- Tap on Snapshot icon to store the current image as a still image and save in the device folder.

#### 8.2 iOS System

#### System requirement

To be able to install and run VS Viewer Pro, please make sure your iOS device is running iOS 5.1 or later version, and the device is with wireless network supported.

#### Step1. Select "App Store"



**Step2.** Search for "VS Viewer Pro", tap on "Install APP", the system will pop-up the request for user to enter login password to start downloading. The downloading should then begin. The VS Viewer Pro icon will show on the device after the download is completed.



Step3. Run "VS Viewer"



# Step4. Tap on to add new DVR or NVR.

Step5. Input DVR/NVR name, Host (IP Address), Port, User name and Password. Tap on "Save" to activate the settings.



# To operate the APP

Tap on the DVR or NVR that user would like to open the view window.



Rotate the screen, the orientation of the screen rotates with the tablet as you turn it.

#### To select the view channel

Tap on **to** switch the display mode between full screen and quad screen

display. Select the display mode, and indicate the channel by tap on the number that user

would like display in the selected display window. Tap on again to hide the selections.

# **PTZ Control**

Tap on **I** in full screen to enable PTZ control.

• 8 way pan/tilt/zoom control: To pan/tilt the PTZ device to up/down/left/right/up right /up left /down right / down left.



<sup>K</sup> : Tap to Zoom in or Zoom out



F- : To adjust focus to near or far



E : To adjust Iris to open or close



: Tap to go to Home position.



Preset: Tap on Preset to bring up the preset menu for operations.

192.168.1.130	Preset	
5	_	
	Go Set	
1	<b>2</b> АВС	3 Def
<b>4</b> сні	5 JKL	6 MNO
7 PQRS	<b>8</b> тих	9 wxyz
	0	×

#### Others

To enable/disable audio display

• Under full screen mode, tap on the icon to enable the digital zoom function. To operate, place two fingers at once on the display window and pinch them together to zoom out, or spreading them apart to zoom in. The zoom in/out display ratio will be shown on the screen. (from 0.2X to 25X)

Tap on Snapshot icon to store the current image as a still image and save in the device folder.

# 9 CMS Pro Operation

#### 9.1 Begin Installation

Simply double click user's CD-ROM drive icon "Setup.exe"



Setuplexe to launch the

installer. Once the CMS Pro installer starts, it should begin to check the compatibility with the operating system user are running this installation on.

#### System Requirement

The following are minimum system requirements for CMS.

- Operating System: Microsoft Windows XP, Windows Vista, Windows 7
- CPU : Minimum Intel i5 or higher
- RAM: Minimum 4GB of RAM
- Independent Graphic Card: Minimum 512MB

The CMS Pro installer is in multi-language. User can choose the installer language.

Installer L	anguage 🛛 📉
0	Please select a language.
	English 💌
	OK Cancel

If user's software is without .NET Framework 4.0, the CMS Pro installer will require user to install .NET Framework 4.0 to ensure CMS operation.

🛞 User Account Control					
Do you want to allow the following program to make changes to this computer?					
Program name: dotNetFx40_Full_x86_x64.exe Verified publisher: <b>Microsoft Corporation</b> File origin: Hard drive on this computer					
Show <u>d</u> etails	)				
Change when these notifications appe	n				

After click yes, there will pop up the installation progress bar to indicate the progress.

Extracting files	<b>—</b>
Preparing: C:\a1923846ad46bd30228b\netfx_Core.mzz	
	Cancel

The .NET Framework 4.0 installer will ask user to review the license terms. After user accept the license terms, please click "Install" to proceed further.

Kicrosoft .NET Framework 4 Se	tup	
<b>.NET Framework 4 Setup</b> Please accept the license term	is to continue.	
MICROSOFT SO	OFTWARE L LICENSE TERM	IS
✓ I have read and accept the	<u>e license terms.</u>	
Download size estimate:	0 MB Dial-Lo: 0 minutes	
	Broadband: 0 minutes	
		Install Cancel

Please click "Next" to proceed further.

Microsoft .NET Framework 4 Setup	
System Requirements Setup cannot continue until the following conflicts have been resolved.	.NET
Resolve the conflicts, dick Refresh to verify that the conflicts have bee and then dick Next to continue with the installation.	en resolved,
Enough disk space must be available.	
🤣 Drive C: Required - 1842 MB, Available - 140292 MB	
These programs must be closed: These services must	be stopped:
<u> </u>	efresh
Next >	Cancel

Installation Progress Please wait while the .NET Framework is being installed.	Microsoft .NET
File security verification:	e -
Verifying netfx_Extended.mzz	
Installation progress:	e
Installing necessary components for .NET Framework	
	Cancel

🤜 Microsoft .NET Framework 4 Setup	
Installation Progress Please wait while the .NET Framework is being installed.	.NET
File security verification:	
All files were verified successfully.	
Installation progress:	0
Installing .NET Framework 4 Client Profile	
	Cancel

Once .NET Framework 4.0 software install successfully, it will pop up the below complete message. Then user can begin to install CMS Pro software.



Once the .NET Framework 4.0 install successfully, user can begin the installation by clicking "Next'.



The CMS Pro installer will ask user to review the license terms. After user accept the license terms, please click "I Agree" to proceed further.

CMS Pro 0.7.1 Setup
License Agreement Please review the license terms before installing CMS Pro 0.7.1.
Press Page Down to see the rest of the agreement.
CMS Pro
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install CMS Pro 0.7.1.
CMS Pro Cancel

The CMS Pro installer will install the program in a default directory. User can either accept the default or choose the directory user would like to save the installer. And click "install" to proceed with the installation.

CMS Pro 0.7.1 Setup	J
Choose Install Location Choose the folder in which to install CMS Pro 0.7.1.	
Setup will install CMS Pro 0.7.1 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.	
Destination Folder           C:\Program Files (x86)\CMS Pro         Browse	
Space required: 20.2MB Space available: 135.2GB	
< Back Install Cancel	

The CMS Pro installer will show the installation process.

CMS Pro 0.7.1 Setup	
Installing Please wait while CMS Pro 0.7.1 is being installed.	0
Extract: Player.exe 100%	
Extract: CMSPro.resources.dll 100% Output folder: C:\Program Files (x86)\CMS Pro\zh-CN Extract: CMSPro.resources.dll 100% Output folder: C:\Program Files (x86)\CMS Pro\zh-TW Extract: CMSPro.resources.dll 100% Output folder: C:\Program Files (x86)\CMS Pro Output folder: C:\Program Files (x86)\CMS Pro Extract: Licence.txt 100% Extract: ReadMe.txt Extract: Player.exe 100%	^ ~
CMS Pro	Cancel

Once the installation is complete, click "Finish" to exit the CMS Pro installer.



# 9.2 Start CMS Pro from the PC

The program automatically creates a shortcut icon on user's PC after CMS Pro install successfully. Simply double click the icon to launch the program.



#### 9.3 CMS Pro UI Overview



- (A) Menu Bar: This is where user can access all functions of the software.
- (B) Device List: This is where user can add or delete or edit device group.
- (C) PTZ Control Panel: This is where user can pan, tilt, zoom the selected PTZ cameras.
- (D) System Information: It provides the information of CMS version. User can change the date format, time format and login authentication per user's requirements.
- (E) Playback: Once user press the playback, it will launch playback control UI to have the further operations.
- (F) Play or Stop: This is to play or stop the video streaming.
- (G) Video: This is where the video are displayed.

## 9.4 Login

After installing the below digital signature, the login page will be displayed for users to enter the User name and Password. Click "OK" to enter CMS Pro Software.

😗 User A	Account (	Control			×
2	Do you change	want to allow s to this comp	the following prog uter?	gram to make	
	0	Program name: Verified publisher: File origin:	CMSPro.exe LOFTY TECHNOLOGY Hard drive on this com	<b>CO., LTD.</b> puter	
🕑 Sho	ow <u>d</u> etails	;		es <u>N</u> o	
			Change when the	se notifications ap	<u>pear</u>

	CMS Login
Language	English
User Name	
Password	

The default user name/password for CMS Pro is:

#### Administrator: admin/admin

The program provides multi-language support. To change the display language, please select the desired language from the CMS language drop-down menu.

#### 9.5 Connect the program with device

The main purpose of the CMS Pro software is to manage multiple devices. User would need to tell the program which device user need to manage. User do that by adding one or more devices through the device list.

### 9.5.1 Add Device Manually

Click the mouse right button on the "Device List" icon and "Add Device" will pop up in the same page to add it manually.



It is required for the information shown below before successfully adding the device to the program. Please input device IP address, HTTP Port, User Name and Password. CMS Pro only supports RTSP Port at 554.

Add Device	
IP Address	
HTTP Port	80
RTSP Port	554
User Name	1
Password	
Add	Cancel

Please note user need to use the CMS Pro administrator's user name and password of the selected device. Without administrator privilege, user is unable to add the selected device.

The default user name/password for CMS Pro is:

Administrator: admin/admin

#### 9.5.2 Remove or Edit device setting

Once user have one or more devices added to the program, the "Edit Device Name", "Device Setting" and "Delete Device" will become available. Simply click on the mouse right button on the selected device from the list and choose the corresponding buttons to edit device name, edit device setting or delete the device.



- Edit Device Name User can edit the device name by simply click on the mouse right button on the selected device to "Edit Device Name". After input the new device name, click"Edit" and the new device name will be updated to the device list.
- Device Setting Once the IP address, user name or password of the selected device has been changed, user can input the new information by clicking on the mouse right button on the selected device.
- Delete Device User can remove the device from the device list by clicking on the mouse right button on the selected device.

# 9.5.3 CMS Pro Group Video

User can create the group to contain different videos from different devices. Click the mouse right button on the "Group" and it will pop up "Add Group".

	- 🗖 🍦 🖻 Θ	Device Device List HDSDI4 MegaNVR Add Group
		- 5
	<b>&amp;</b>	PTZ Cor System O Playback

Press "Add Group" and the default "Group 1" will be generated. The group number is increased by numerical order. Click the mouse right button on "Group 1" and the below drop-down menu will be displayed.

# 9.5.3.1 Edit Group Content

Before edit group content, user need to stop stream first. Then user can drag and drop either devices or channels from the device list to the desired video windows.

CIVIS PIO				
Group 1 *		Q [		Device     Device List     HDSDI4     U92.168.1.97:6     CH01     CH02     CH02     CH03
				CH04 ← MegaNVR ← @192.168.1.68.8 CH01 CH02 CH03 CH04 CH05 CH06 CH06 CH07 CH08 ← @Group ● Group 1
			<b>\$</b>	PTZ PTZ PTZ PTZ PTZ PTZ PTZ PTZ

#### 9.5.3.2 Open Group Stream

After finish the edit group content, click "Open Group Stream" on the desired group to play the video streaming.

# 9.5.3.3 Edit Group Name

User can modify the group name.

Edit Group Name	×
Group 1	Edit

#### 9.5.3.4 Delete Group

User can remove the group from the group list by clicking on the mouse right button on the selected group.



## 9.6 Live Video

This page basically provides user the ability to view, and manage the video streams of each channel.

CH01 : CAMERA0	CHOR GAMERAC	CHOS CAMERAO	CH04 CAMERIKO	CH05 :	CH06 :	
CH07 :	CH08 :	CH09 :	CH10:	CH11:	CH12 :	
CH13 :	CH14 :	CH15 :	CH16:	CH17:	CH18 :	
CH19 :	CH20 :	CH21 :	CH22 :	CH23 :	CH24 :	1
CH25 :	CH26 :	CH27 :	CH28 :	CH29 :	CH30 :	
CH31 :	CH32 :	CH33 :	CH34 :	CH35 :	CH36 :	PTZ

The menu bar is available for each video window. The menu bar provides the following functions:

The basic operations are showing on the main screen, the functions are:



Two-way audio



Click to take a snapshot of selected live video

Click to digital zoom the selected live video

Click to stop or play the live video

• Take a snapshot: The function allows user to take the snapshots of the live video and save them on user's local computer. Move the focus to the selected video and click "Snapshot" icon. User can save the file to a desired directory.



• Digital Zoom: The function allows user to enlarge the live video at 2x, 4x and 8x. Move the focus to the selected video. Click "Full Screen" icon. Then click "Digital Zoom" icon and the selected area which user would like to enlarge.



If user click the "Minimize" icon in the live mode, user will see the icon icon display on the tool bar of user's computer.

### 9.7 Playback Video

The program supports 1 device synchronous playback in full screen or multi-screen view. To start looking for playback videos, click "Playback" button Playback first.



The menu bar is available for each video window. The menu bar provides the following functions:

The basic operations are showing on the main screen, the functions are:



If user click the "Minimize" icon in the playback mode, user will see the display on the tool bar of user's computer.



#### 9.7.1 Search for Playback Videos

Simply select a device from the drop-down device list and double click the selected device. It will pop up the calendar.

Device
Device List
▲ HDSDI4
4
CH01
CH02
CH03
CH04
MegaNVR
< <u> </u>

#### 9.7.1.1 Calendar

The calendar on the screen shows the recorded data contains in the hard drives. The date highlighted in red means there's recorded data of the date in the hard drives. The gray highlighted date indicates the current search date. Click on the calendar to select the date user would like to search.



#### 9.7.2 Search operation

The recorded file can be searched by "Time", "Channel" and "Event". Select the search type first, choose a date, and click "Search" button. The results will show in the list. Double click on the selected file then the video will start to play on the display window.

### 9.7.2.1 Search by Time

The recorded section list of the current selected day will be shown on the screen. Double click on the selected recorded file to start the playback.


## 9.7.2.2 Search by Channel

Search by Channel allows user to search the event video by channel. Select the date from the calendar, and select the channel user would like to view. The event video list of the selected channel will be shown on the screen. Double click on the selected recorded file to start the playback.



### 9.7.2.3 Search by Event

Search by event allows user to search the event video list by channel and by event type. Select the channel user would like to view (user can also click All On or All off to enable or disable all channels), then select the event type (Alarm, Motion and Video Loss), the event video list of the selected channel and event type will be shown on the screen. Double click on the selected recorded file to start the playback.



## 9.8 CMS Playback Operation



The basic playback operations are as below.

#### 2012-11-12 05:13:07 pm

The progress bar shows the current playback status and timeline. Drag the time indicator on the progress bar to move to the selected timeline to playback.

2012-11-12 05:23:07 pm

On the time bar, it also indicates the initial and end time of the current playback section.

- Click to playback video
- Click to pause video

M

- Click to switch to fast forward playback (2x), user can also control the
- playback speed by clicking  $\blacksquare$  and  $\blacksquare$ , in x0.25, x0.5, x1, x2, x4 and x8.
  - Click to fast forward to the next section
  - Click to fast backward to the previous section

### 9.9 CMS Export

Click on the "Export" button *Export* to bring up the export menu, this allows user to export the video file from the device

CMS Play			_ C X
192.168.1.97			📮 Device
Index	File Name	Image Size	🔍 Search
1	CH01_20130117120351_20130117121351.avs	605 MB	🔎 Export
2	CH02_20130117120351_20130117121351.avs	605 MB	4 Insurani 2012
3	CH03_20130117120351_20130117121351.avs	605 MB	anuary, 2015
4	CH04_20130117120351_20130117121351.avs	605 MB	Su Mo Tu We Th Fr Sa
			10 31 1 2 3 4 5 6 7 6 9 10 11 12 13 4 15 6 7 6 9 10 11 12 13 4 15 6 7 6 9 10 11 12 13 4 15 6 7 8 9 7 22 29 10 31 1 2 5 4 5 6 7 8 9 Time 12 • 03 • 51 • Duration 10 Minute Channel • 01 4 02 4 03 4 04 All On All Off Search Player

To export the video, select the date from the calendar, the starting time of the video and channels that user would like to export. (Click All On or All off to enable or disable all channels.) Input the duration time user would like to export, the maximum search duration is 60min. Click Search to start, the searched video files will be listed on screen.

The maximum video file size is 2000MB, the system will automatically create new file if the searched result is over 2000MB.

Double click on the selected item and the system will pop up message as below, select the location user would like to store then click Save to execute the downloading.



User can view the exported file on the Export Player. If the user does not have the Player installed in the PC, click Export Player button to download the player to the PC. Please refer to Chapter 5 for Export Player operation.

# 9.9 CMS PTZ Configuration

User can synchronize PTZ settings from all cameras connected to the NVR on the network or user can create and add new PTZ preset points to those cameras through CMS Pro.

The basic operation is the same as the NVR PTZ control. Please refer to Chapter 3 for detail operation.



### 9.10 CMS System

Click on the "System" button System to bring up the system menu, this allows user to change the Date Format, Time Format, Login Authentication and CMS Version.

CMS Pro		
		Device PTZ CO System Date Format
19216819780 ×	CHO2 * CAMERAO2	MM/DD/YYYY • Time Format 24H • Login Authentication Check CMS Version : v. 0.7.1.0
CHO37"CHMERAO3	CH04" CAMERA04	
	0: 12	-28-2013 :02:40

- Date Format: Select date format from DD/MM/YYYY, MM/DD/YYYY or YYYY/MM/DD.
- Time Format: Select time format between 12 Hours and 24 Hours.
- Login Authentication: User can change CMS Pro password. Please input the old password and input the desired new password and reconfirm it. After confirmation, click "Edit", the new password has been updated. The new password will be required when next time user login again.

Modify Login Inform 🗖 🖻 🗾				
Old Password				
New Password				
Type it again				
Edit				

• CMS Version: It indicates CMS Pro current version.