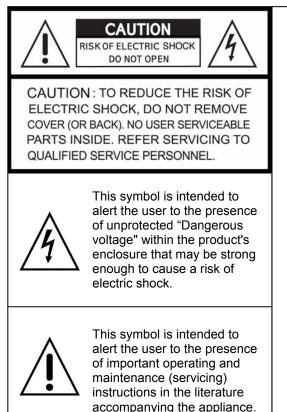
User Manual HS 411/411U/811/811L 4/8CH DVR O POWER O NET **A**/II O REC 4 Ch. Digital O PLAY O POWE O NET **m/I** C O REC H.264 O PLAY /SLO O POWER O NET **A**/II 9/0 0/0 O REC ٢ O PLAY H.264 This document contains preliminary information and subject to change without notice.

1

1



WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

NOTE: This equipment has been tested and found to comply with the limits for a class 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.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

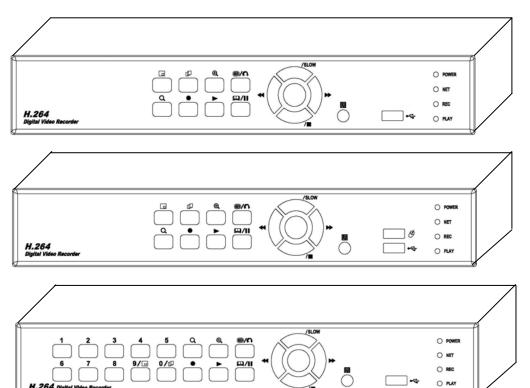
This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Table of Contents

CHAPTER 1 PACKING DETAIL AND INSTALLATION	5
1-1 PACKING	5
1-2 Hard Disk Installation	6
2-1 FRONT PANEL CONTROLS	
2-2 8CH REAR PANEL CONNECTORS	8
2-3 4CH REAR PANEL CONNECTORS	9
CHAPTER 3 LIVE, PLAYBACK AND PTZ OPERATIONS	10
3-1 LIVE MODE	10
3-1.1 REMOTE CONTROLLER	
3-2 PLAYBACK Mode	13
3-3 PTZ Mode	15
CHAPTER 4 MAIN MENU SETUP	
4-1 RECORD SETUP	
4-1.1 Quality & Frame Rate Setup	20
4-2 EVENT SETUP	
4-2.1 MOTION SETUP	22
4-2.1.1 MOTION AREA SETUP	23
4-2.2 SENSOR SETUP	
4-3 SCHEDULE SETUP	25
4-3.1 Schedule Record Setup	26
4-3.2 Holiday Setup	26
4-4 CAMERA SETUP	27
4-5 ACCOUNT SETUP	28
4-5.1 Permission Setup	29
4-5.2 User Picture Setup	
4-6 NETWORKING SETUP	
4-6.1 NETWORKING SETUP	
4-6.1.1 DHCP	31
4-6.1.2 LAN	31
4-6.1.3 ADSL	32
4-6.2 HTTP Setup	
4-6.3 DDNS Setup	
4-6.4 Mail Setup	
4-7 PTZ & RS485 SETUP	
4-8 SYSTEM SETUP	37
4-8.1 DISPLAY SETUP	38
4-8.2 DATE/TIME SETUP	
4-8.2.1 CHANGE DATE & TIME	39
4-8.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP	
4-8.2.3 INTERNET TIME SETUP	
4-8.3 BUZZER & RELAY SETUP	
4-8.4 SPOT SETUP	
4-9 UTILITY SETUP 4-10 DIAGNOSTIC	
4-10 DIAGNOSTIC CHAPTER 5 BACKUP & SEARCH	44 45
5-1 BACKUP SETUP	45
5-2 SEARCH SETUP	46
5-2.1 EVENT SEARCH 5-2.1.1 CRITERIA SETUP FOR EVENT SEARCH	4/
5-2.1.1 CRITERIA SETUP FOR EVENT SEARCH	48 49
J-Z.Z HIVIE SEARCH	49

5-3 AP Software Installation and Setup	
5-4 AP Software Operation	51
CHAPTER 6 SPECIFICAITONS	54
CHAPTER 7 MOBILE APPLICATION INSTALLATION AND USAGE	56
7-1 Mobile Application Installation and Operation for Symbol	ian System 56
7-1.1 Mobile Application Installation	
7-1.2 Mobile Application Operation	
7-1.2.1 Add New Login DVR	
7-1.2.2 Logging Onto the DVR	
7-1.2.3 Modify the Login Information of DVR	
7-1.2.4 Delete the Login Information of DVR	
7-1.3 Live Monitoring Operation	
7-1.3.1 Scroll the Image	
7-1.3.2 Image Quality Setup	
7-1.3.3 Channel Display	
7-1.3.4 Size of Image	
7-1.3.5 Rotate the image	60
7-1.3.6 Alarm	61
7-2 Mobile Application Installation and Operation for Windo	ows Mobile S
ystem	61
7-2.1 Mobile Application Installation	62
7-2.2 Mobile Application Operation	63
7-2.3 Operation under the LIVE monitoring	63
7-2.3.1 Operation uner the LIVE monitoring for Jrvie	
7-2.3.2 Operation under the LIVE monitoring for H20	
CHAPTER 8 CMS INSTALLATION AND USAGE GUIDE	66
8-1 CMS Installation	66
8-2 CMS LOGIN AND ENVIRONMENT	67
8-3 DVRs, Groups & Events	68
8-3.1 View DVR / Group List	69
8-3.2 View Event Logs	69
8-4 Local PC Information and Control	70
8-5 Main Display	
8-5.1 Audio Control	71
8-5.2 eMAP Display	
8-5.3 PTZ Control	72
8-6 Operation Bar	73
8-6.1 User administration	74
8-6.2 DVR Administration	75
8-6.3 Group Administration	76
8-6.4 eMap Administration	77
8-6.5 Remote Play	78
8-6.6 HDD Playback	79
8-6.7 File Playback	
8-6.8 Event Playback	
8-6.9 Snapshot Data	
8-6.10 Recording Data	81

CHAPTER 1 PACKING DETAIL AND INSTALLATION 1-1 PACKING



1. DVR



2. IR Remote Control



3. Batteries×2





5. Power Adaptor

1-2 Hard Disk Installation

Step 1) Fix the HDD to rack mount with the screws as indicated.



Step 2) Connect the power and the SATA cables as indicated.

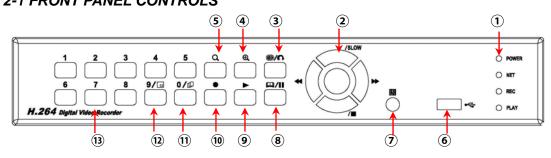


Step 3) Place the HDD on the HDD plate and screw it as indicated.



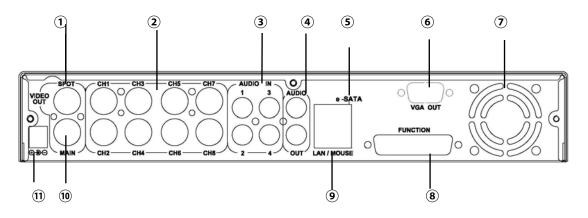
Note: After installation, please initialize Hard Disk before starting to record. For more detailed information, please check out User Manual 4-9 System Tools for reference.

CHAPTER 2 PANEL LOCATION 2-1 FRONT PANEL CONTROLS

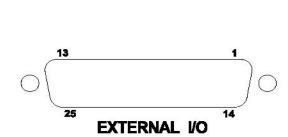


CONTROL KEYS	DESCRIPTION	
① LED Display		REC : Recording. PLAY : Playing back.
	◀ / ◀◀ : In SETUP mode, press mode, press to play rewir	
/SLOW	▲/SLOW : In SETUP mode, press t mode, press to slow dow	
	► / ►► : In SETUP mode, press to mode press to play forward	
	▼ / ■ : In SETUP mode, press to m mode, press to stop playing	nove cursor down. In PLAYBACK g back.
	← :In SETUP mode, press to enter	r values.
3 00/ 0	In LIVE mode, press to display the BACKUP menu. In SETUP mode, press to return to previous page.	
(<u>4</u>) ⊕	In LIVE or PLAYBACK mode, enlarge the display of a channel.	
5 Q	Display the search menu.	
6 USB 2.0 Port	Port for USB external devices.	
⑦ IR Sensor	Input sensor for the remote control.	
8 4	In LIVE mode, press to display men pause playback.	u. In PLAYBACK mode, press to
⑨ ▶ PLAY	Play back in normal speed.	
10 ● REC	Start or stop recording.	
<u>(1)</u>	In LIVE mode, cycle through all chai	nnels in full screen.
	In LIVE mode, display with picture ir	n picture format.
13 1,26, 7,8	Press numbers to select each chanr	nel in full screen

2-2 8CH REAR PANEL CONNECTORS

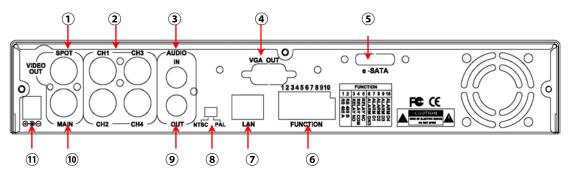


1 SPOT monitor	BNC port to display full screen image of all installed cameras in sequence.		
VIDEO IN	BNC input ports for cameras, 8	BNC input ports for cameras, 8 in total.	
3 AUDIO IN		RCA input port for audio signal. There are 8 ports available. (corresponding to channel 1 to 8)	
④ AUDIO OUT	RCA output port for audio signa	RCA output port for audio signal.	
5 E-SATA	External SATA hard disks port.	External SATA hard disks port.	
6 VGA	VGA port		
 Fan 	DC 12V 40mm X 40mm fan		
FUNCTION	1 : RS-485 B 2 : RELAY 1 COM 3 : GND 4 : ALARM IN CH2 5 : ALARM IN CH4 6 : ALARM IN CH6 7 : ALARM IN CH8	14 : RS-485 A 15 : RELAY 1 NO 16 : RELAY 1 NC 17 : ALARM IN CH1 18 : ALARM IN CH3 19 : ALARM IN CH5 20 : ALARM IN CH7	
9 LAN	Network port		
10 MAIN monitor	BNC port for the main monitor		
1 DC 12V	Socket for a DC 12V input.		

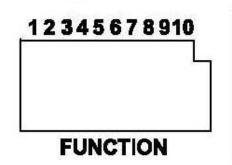


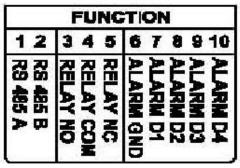
1	RS-485_B	14	RS-485_A
2	RELAY 1_COM	15	RELAY 1_NO
3	GND	16	RELAY 1_NC
4	ALARM IN - 2	17	ALARM IN - 1
5	ALARM IN - 4	18	ALARM IN - 3
6	ALARM IN - 6	19	ALARM IN - 5
7	ALARM IN - 8	20	ALARM IN -7
8		21	
9		22	
10		23	
11		24	
12		25	
13			

2-3 4CH REAR PANEL CONNECTORS



① SPOT monitor	BNC port to display full screen image of all installed cameras in sequence.	
② VIDEO IN	BNC input ports for cameras, 4 in total.	
3 AUDIO IN	RCA input port for audio sig	nal.
(4) VGA	VGA port	
5 e-SATA	External SATA hard disks port	
6 FUNCTION	1 : RS-485 A 2 : RS-485 B 3 : RELAY NO 4 : RELAY COM 5 : RELAY NC	6 : ALARM GND 7 : ALAMR D1 8 : ALARM D2 9 : ALARM D3 10 : ALARM D4
⑦ LAN	Network port	
⑧NTSC / PAL SWITCH	Switch between NTSC and PAL format	
9 AUDIO OUT	RCA output port for audio signal	
10 MAIN monitor	BNC port for the main monitor	
1 DC 12V	Socket for a DC 12V input	





CHAPTER 3 LIVE, PLAYBACK AND PTZ OPERATIONS

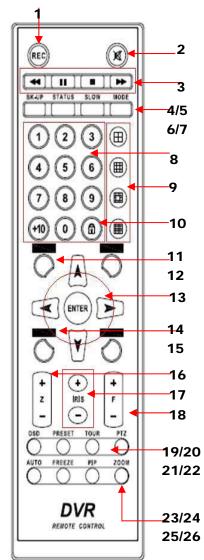
The IR remote control and mouse operate differently under each mode; this chapter describes the functions of them under three different modes: LIVE, PLAYBACK and PTZ.

3-1 LIVE MODE

You can monitor all the channels, listen to audio signal and have some related operations under LIVE mode. This paragraph describes the IR remote control, mouse operation and on screen graphical icons under LIVE mode.

Note : 4CH will show quad display; 8 CH will show quad and 9-channel display.

3-1.1 REMOTE CONTROLLER



Button Name	Description	
1. REC	Start/Stop recording.	
2. 🕅	Audio Mute	
3. ≪ " ■ ≫	Fast Forward; Pause; Stop; Fast rewind	
4. BK-UP	Display backup menu	
5. STATUS	Display status	
6. SLOW	Press this button to slow-down playback speed	
7. MODE		
8. 1,28,9,+10	Select the channel to monitor in full screen from 1 to 16	
9. 🖽 🖽 🖽	Switch to Quad/9/13/16 display	
10. LOCK	Enable/Disable the keypad function on the front panel, the remote control and the mouse	
11. PLAY	Start playing back the most recently recorded segment	
12. T-SRH	Display search menu.	
▲ ◄∞∞► 13. ♥	Directions and ENTER buttons	
14. MENU	Display setup menu	
15. ESC	Return to the previous mode	
16. Z+/Z	PTZ zoom-in/out	
17. IRIS+/-	PTZ iris-open/close	
18. F+/-	PTZ focus-in/out	
19. OSD	Turn on/off the screen display	
20. PRESENT		
21. TOUR	Activate PTZ pre-set tour	
22. PTZ	Start/Stop PTZ control	
23. AUTO	IN AUTO mode, all available channels will be cycled through in full screen	
24. FREEZE	Turn on/off screen freeze function	
25. PIP	Turn on picture-in-picture format. Click on the channel name can switch to other channels	
26. Zoom	Enable/Disable double screen size display	

Note : MULTI ID REMOTE CONTROLLER is optional for you to purchase.

lcon	Description	
	Resting the cursor on this icon will bring up the following four menu icons	
0	Main menu	
	Search Setup	
1	Backup	
	PTZ control	
8	Record on/off	
	Playback	
	Resting the cursor on this icon will bring up the following five display icons	
Π	Pause	
	PIP, picture in picture	
Ø	ZOOM, double the screen size	
	AUTO-Seq	
•	LOCK, activate the key lock	
	Full screen display	
Ŧ	Quad display	
	9-channel display	
Note : 4CH will show quad display; 8 CH will show quad display and 9-channel display.		

Table 3-1.2 Graphical icons that will display after right-clicking your mouse under LIVE mode.

Icon	Description	
() 1~4	Live Audio is on	
1	Live Audio is off	
	Connected to the LAN cable.	

Table 3-1.3 Description of on screen graphical icons in LIVE mode

lcon	Description
HO	Image quality (High/Low)
	Full screen
0	Record
	Snap shot
0	Record and snap shot file saving path setup

3-2 PLAYBACK Mode

Switch to PLAYBACK mode by pressing "PLAY" under the LIVE mode, the graphical icon will show up on the upper center of the screen and the operation panel (see below picture) will show up at right lower corner of the screen. You can drag the panel by mouse to place it on any location of your screen.



Table 3-2.1 Remote control functions under the PLAYBACK mode

Button	Description
ENTER / MODE	Switch to full screen, quad, 9-channel or 16-channel display
MENU / 💵	Turn on/off PAUSE
PLAY	Play back at normal speed

▲ / SLOW	Play back at slower speed. The speed will be slowed to 1/2, 1/4, 1/8, 1/16 by each pressing of the button till the slowest limitation of 1/16 of the normal speed. Current playback speed is shown in the upper center of the screen
44 / 4	Fast rewind. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X
▶ ▶ / ►	Fast forward. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16x, 32X and 64X
▼ / ■	Stop playback



 Table 3-2.2
 The mouse operation under the PLAYBACK mode.

Icon	Description
**	「 ◀◀ / ◀」 Fast rewind
*	F ►► / ► Fast forward
	Play/pause
	「▲ / SLOW」 [,] slow playback
	「▼ / ■」stop playback
11>	Playback channel by channel with snap shot display
	Full screen display
	Quad display
	9-channel display

Note : 4CH will show quad display; 8 CH will show quad display and 9-channel display.

3-3 PTZ Mode



Switch to the PTZ mode by pressing "PTZ" button under the LIVE mode. The PTZ icon will appear on upper left side of screen and the control panel will appear on the down right side of screen.



Button	Description
▲ / SLOW	Move PTZ up.
▼/■	Move PTZ down.
◄ ◀ / ◄	Move PTZ to the left.
▶▶ / ▶	Move PTZ to the right.
ZOOM +	PTZ zoom-in.
ZOOM -	PTZ zoom-out.
FOCUS +	PTZ focus-in.
FOCUS -	PTZ focus-out.
IRIS +	PTZ iris-open.
IRIS -	PTZ iris-close.
TOUR	Activate PTZ pre-set tour. *
PRESET+ Number	Setup the Preset location Press " PRESET " key first then two-digit number; DVR will set the current PTZ location at entered preset number.
PLAY+ Number	Go to Preset location Press " PLAY " key first then two-digit number, PTZ will go to the correspondent preset number location.
PIP	Set current PTZ location as the start of line-scan. *
FREEZE	Activate auto line-scan. *
ZOOM	Set current PTZ location as the end of line-scan. *

*PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

Xupper		1
	ZOOM	
🐔 🌔 🛨	FOCUS	-
2 🕈 🐒 👎	iris	-
12345	678	

Table 3-3.2 Mouse operation under the PTZ mode

Icon	Description
×	Leave PTZ Mode , back to the LIVE mode
<1>	Pre-set number N. (1~64)
-1	Go to pre-set number N.
	Set current PTZ location at pre-set number N.
2	$^{ m \Gamma}$ TOUR _ , press to activate pre-set tour *
1	<pre></pre>
	「FREEZE」, Activate line-scan. *
	「ZOOM」, Set current PTZ location as the end of line-scan. ★
	To move PTZ in 360°
🛨 ZOCM 🗖	PTZ zoom in; PTZ zoom out
🖬 Focus 📩	PTZ focus in; PTZ focus out.
ti iris 🗖	PTZ IRIS open, PTZ IRIS close.
Below functions need suppor nual of your PTZ for more d	t from specific PTZ manufacturer. Please check user ma etail.
1	AUX 1, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 1 $_{ m J}$
2	AUX 2, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 2 $_{ m J}$
3	AUX 3, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 3 $_{ m J}$
4	AUX 4, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 4 $_{ m J}$
5	AUX 5, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 5 $_{ m J}$
6	AUX 6, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 6 $_{ m J}$
7	AUX 7, \lceil AUTO \rfloor Key $+$ Number key \lceil 7 \rfloor

8	AUX 8, \lceil AUTO $_{ m J}$ Key $+$ Number key \lceil 8 $_{ m J}$
	\ulcorner Backup $_{\tt J}$, Customized function $_{\circ}$

*PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

CHAPTER 4 MAIN MENU SETUP

To enter the main menu and set up DVR, log-in account and user password are required. The default password of the administrator is "**123456**". Please check the "Account Setup" for related setup of other log-in users.



 Table 4-0.1
 Some definition of virtual keyboard

ltem	Description
ABC	Switch between numbers and letters
Esc	Press to cancel the setup, and re-choose the login account
	Delete the last character
+	Enter to identify the password. It will enter the setup menu, If the p assword is verified
	Space key



Table 4-0.2 The operation of remote control under the setting menu

Item	Description
< >	Switch to different options under one item
▲ ▼	Switch to different items
MENU	Save setup and back to LIVE mode
ESC	Back to Upper level of menu without saving
ENTER	Enter the menu, or display virtual keyboard

PS. The initialization of new-installed HD is required before recording, please refer to "**4-9 UTILITY SETUP**" for detail.

4-1 RECORD SETUP

1	2 3 4 5 6 7 8	2/5/2010 09:35:14	
	RECORD SETUP		
	HDD Full:	Overwrite 🗸	
	1 2 3 4 5 6 7 8		3
	OSD Position X:	416	
	OSD Position Y:	456	
- 20	OSD Position Setup		
K	Video Preservation(Hours)	24 23:12	2
	Quality & Frame Rate Setup		
	ENU] OK; [ESC] Cancel	OK Cancel	
	我回苑010/02/05 09:35:13 2010/02/05 09:35	5213 LQ 🖃 💽 🖬 🔂	

Item	Description
	Select STOP to stop recording or OVERWRITE to reuse the HDD when HDD is full
HDD FULL	「 Stop 」:Stop Recording
	└ Overwrite 」: Start to overwrite that begin from the oldest data of HDD, and continue to record.
Quality & Frame Rate Setup	Setup the quality and frame rate for each channel under normal recording and event recording type.
OSD position X	Setup OSD X axis
OSD position Y	Set up OSD y axis
Recording OSD position setup	Set up OSD axis

4-1.1 Quality & Frame Rate Setup

Q	UALIT	Y & FRAME R	ATE	SETUP		
💶 View Normal	No.	Resolution		Quality		FPS
🗖 View Event	•	360×240		Normal	-	30
	! 1	360×240		Normal		30
	2 📃	360×240		Normal		30
Normal 240/240	9 3	360×240	T	Normal	_	30
	9	360×240	T	Normal		30
Auto	9 5	360×240		Normal		< <u>30</u>
	9 🖲	360×240	•	Normal	_	30
Event 240/240	9	360×240	T	Normal	_	30
Auto	8 👤	360×240	V	Normal	v	30
IENU] OK; [ESC] C	ancel			ОК		Canc

Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.

ltem	Description				
Normal setup/ event setup	Select recording mode				
Resolution	Select recording resolution: 320x240, 720x240, 720x480				
Record Type You can setup quality and FPS separately for record type.					
No.	Check/uncheck the box enable/disable selected channel recording				
Quality	Select quality: Lowest/ Low/ Normal/ High/ Highest				
FPS	Select recording frame rate.				
Auto	Assign each channel with its maxima accessible fps				



Item	Description		
Motion Setup	Enter to set up motion detection		
Sensor Setup	Enter to set up sensor detection		

4-2.1 MOTION SETUP

٤	2345678 🗯	26%	-	2/5/2010 09:41:19
-		MOTION SETUR	>	and the second se
<u> </u>	Alarm Duration(Sec	conds):	1	5
	Motion Popup	- /	1	1
4	1 2 3 4 5	6 7 8		
/	Enable			6
	Sensitivity:	And and a state of the state of		
	Motion	Area Setup		
	1		1	
-			/	
	MENU] OK; [ESC] C	ancel	ОК	Cancel
/				
		2	010/02/1	

Item	Description		
Motion Popup	Check the box to Enable/Disable popup screen function for all channels. When motion is detected in LIVE mode, the detected channel image will pop up in full screen display.		
1~8	You can setup independently for each channel.		
Selected Channel Turn	Check the box to Enable/Disable motion detection for each channel.		
Object Size	Drag the white bar or press ◀ ► to set up Object Size fr om value 1 to 15 for each channel. The lower value you set the higher sensitivity it will be. Value set up as 1, the motion will be detected easiest.		
Sensitivity	Drag the white bar or press ◀ ► to set up Sensitivity from v alue 1 to 15 for each channel. The lower value you set the higher sensitivity it will be		
Motion Area Setup	Enter to setup motion detection area		

4-2.1.1 MOTION AREA SETUP

The motion detection has been divided into 16x12 grids. The default detection area is full screen as it marked in transparent for local DVR and purple for remote access. Areas deselected for motion detection are marked in red for both local and remote site.



ltem	Description
Mask Mouse Selection	Switch between "select" and "deselect" for cursor-dragging function
All Area Detection	Select entire screen as detection area.
Mask All Area	Deselect entire detection area.
Continue	Continue setup
Exit & Save	Save setup and leave
Exit & Discard	Cancel setup and leave

4-2.2 SENSOR SETUP

4	12845678	-	26%	7		2 <i>151</i> 201 09:43 <mark>:1</mark>	
		SENS	OR SETUP				01
-	Alarm Duration(Seconds)	:				4 5	1
	Sensor Popup	No.	Polarity				: 43: 16
1		1	Off				
100		2	Off				
		3	Off				
1 Line		4	Off				24
		5	Off				1
	All Off	6	Off				: 43 : 16
42	All Low	7	Off				
100	All High	8	Off				
[MENU] OK; [ESC] Cancel				ОК	Cancel	
	2010/02/05 09:43:16		2010/02/03 01	0843216		•• = 0 •	

Item	Description				
Sensor Popup	Check the box to Enable/Disable popup screen function for all channels. When Sensor is detected in LIVE mode, the detected channel image will pop up in full screen display.				
All Off	Set all sensor off				
All Low	Set all sensor polarity low				
All High	Set all sensor polarity high				
Sensor Polarity	Click or press ▼ to select between HIGH, LOW voltage for triggering sensor detection or OFF to turn off polarity for each channel				
	Low Polarity : Sensor has not been triggered. When connected, sensor will be turned on				
	High Polarity : Sensor has been triggered. When connected, sensor status will be turned off				
	Off : Sensor is deactivated, and will not be turned on/off.				

Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.

4-3 SCHEDULE SETUP

Except from starting recording manually, you can also setup the recording time by weeks and schedule including normal, motion detect, and sensor detect recording type.



ltem	Description			
Page	Each page provides 10 schedules for setup. 5 pages in total.			
Holiday Setup	Enter to setup holiday, up to 50 days, other than weekends,.			
View Event/ Motion/ Sensor Setup	View Normal/ Motion / Sensor Setup			

4-3.1 Schedule Record Setup

Click on the time on the left side. The setup menu will be displayed. You can have detail setup by dates, Time and event.



4-3.2 Holiday Setup

Since holidays are different by different country and region, you can setup the holiday of your location accordingly.



4-4 CAMERA SETUP



Item	Description
1~8	You can setup independently for each channel.
Mask	Check the box to Enable/Disable mask function for LIVE mode
Sharpness	Drag the bar or press ◀ ► to adjust Sharpness of your camera from value 1 to 255. The default value is 128.
Brightness	Drag the bar or press ◀ ► to adjust Brightness of your camera from value 1 to 255. The default value is 128.
Contrast	Drag the bar or press ◀ ► to adjust Contrast of your camera from value 1 to 255. The default value is 128.
Saturation	Drag the bar or press ◀ ► to adjust Saturation of your camera from value 1 to 255. The default value is 128.
Hue	Drag the bar or press ◀ ► to adjust Hue of your camera from value 1 to 255. The default value is 128. (This function doesn't support at PAL system)
Name	Set up name of each channel
Volume	Audio volume for CH1 to CH 4 under LIVE mode and recording mode can be adjusted.

4-5 ACCOUNT SETUP

The Account Setup menu is used to provide role-based permission independently setting for each user (maximum of 4 users) to access DVR over network. The default admin account and password is "admin" and "123456" The default password remains the same after firmware upgrade, however, it requires 8-digits for password length when you setup a new one

		ACCOUNT SE	TUP	
No.	User Name	Password		
1	USER1			Permissions
2	USER2			Permissions
3	USER3			Permissions
4	USER4			Permissions
	1	Passw	ord: lew:	
		Conf	irm:	
CI	hange	C	hange Ac	lmin Password
ENIII	OK; [ESC] C	ancel		OK Canc

ltem	Description
No.	Check to activate the user's account.
Username	Set up username
Password	Set up password for each user. Password is 8-digits required and can be mixed by letters and numbers with case-sensitive. Letters can be mixed with capitals or lowercases.
Permissions	Set up Permissions for each user
Change Admin Password	Change administrator's password
Picture	Change user's picture

4-5.1 Permission Setup

The Account Setup is set to provide individual user (maximum of 4 users) role-based permissions, including access to Setup menu, Network operation, PTZ function, Playback, Utility, Backup, Password expiry date and Mask on specific channels while playing back.

12345	678	86	26 %	À	2/5/2010 09:52:03
	Password	Expiry Date)	2010/02/05	
No.	Setup		Network		:52:02
2	PTZ		Playback		
3	Utility		🗌 Backup		
4	Remote & Pl	ayback Mas	k:		
	CH01	CH02	CH03	CH04	—
9	CH05	CH06	CH07	CH08	=
Cha			ОК	Cancel	
[MENU]			UK	Cancel	Cancel
51	2010/02/05 09:52:02	6	2010/02/05 09:52:02	10	

4-5.2 User Picture Setup

User can select picture wished to be changed to from hard drive.



Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.

4-6 NETWORKING SETUP

(here	12345678	269		Ĩ-		2/5/2010 09 <mark>:55:12</mark>
-		NETWORK	SETUP			
	ADSL	DHCP		LAN		
(e_{i})	IP Address:		122 . 1	46 . (65.	108
74.	Subnet Mask:		255 . 2	255 . 2	55 .	0
	Gateway:		122 . 1	46 . (65.	254
	DNS:		168 .	95.	1.	1
ľ.	HTTP Setu DDNS Setu Mail Setup	p				155100
	MENU] OK; [ESC]		010/02/03 09: 55:11	ОК	C	ancel

Item	Description
Connect type	Setup mode for network connection: (DHCP \ LAN \ ADSL).
HTTP Setup	Enter to set up HTTP
DDNS Setup	Enter to set up DDNS
Mail Setup	Enter to set up mail

4-6.1 NETWORKING SETUP

There are three ways to connect to the network as followed.

4-6.1.1 DHCP

When DHCP is selected, IP address will be assigned by DHCP server automatically.



4-6.1.2 LAN

Select LAN for network connection, the following information is required.



ltem	Description
IP Address	Enter IP address provided by ISP
Subnet Mask	Enter IP address of Subnet Mask provided by ISP
Gateway	Enter IP address of Gate way provided by ISP
DNS	Enter DNS address provided by ISP. (Note: The correct DNS address must be entered for DDNS function).

4-6.1.3 ADSL

Select ADSL for network connection, the following information is required.



Item	Description
User Name	Enter user name provided by ISP
Password	Enter password provided by ISP

4-6.2 HTTP Setup



Item	Description
Enable HTTP Server	Check to enable HTTP server. Users can remotely access into the DVR over the network if the HTTP function is activated.
Port	Enter a valid port value from 1 up to 65000. The default value is 80.
Auto	Assign each channel with its maxima accessible fps
No.	Chanel number
Quality	Set up record quality. There are below basic, basic, normal, high, highest
FPS	Set up record FPS

4-6.3 DDNS Setup



Item	Description
Enable DDNS	Enable/disable DDNS function.
DDNS Server	Enter the registered SMTP Server: DYNDNS.ORG NO-IP.ORG CUSTOM.COM 3322.ORG I-DVR.NET *
SMTP Server	Enter the completed registered SMTP Server. (Including username + Server) If the user name is h.264 and you choose i-dvr as your server, you should enter: h.264.i-dvr.net
User Name	Enter user name.
Password	Enter password.

For more detailed I-DVR.NET operation instruction, please refer to appendix I.

4-6.4 Mail Setup

When event occurs (VLOSS, MOTION, SENSOR), email will be sent to the receiver account automatically.

	2 3 4 5 6 7 8 4	26%		2/5/2010 10:10:50
		MAIL SETUP		
AN.	Enable E-mail Not SMTP Server:	ification		:10:49
and the	User Name:			
	Password:			
	Sender E-mail:			
	Trigger Events:			12
A	🖲 Video Loss	💻 Motion	Sensor	:10:49
	Receiver E-ma	il		
	MENU] OK; [ESC] Can	cel	ОКСС	ancel
	2010/02/05 10:10:49	2010/02/05	: 10:10:49 LQ 📃	

Item	Description		
Enable E-mail Notification	Check the box to enable/disable E-mal Notification function.		
SMTP Server	Enter to set up SMTP Serve name.		
User Name	Enter to set up User Name.		
Password	Enter to set up Password.		
Sender E-mail	Enter to set up e-mail address of receivers.		
Receiver E-mail	Enter to set up e-mail addresses for up to 10 receivers individually.		
Trigger Event	Enter to select events to send out E-mail notifications when below circumstances happen: Motion, Sensor and Vloss (Video Loss).		

4-7 PTZ & RS485 SETUP

The DVR allows users to control PTZ functions of your camera. To enable PTZ function, the 485 cable should be connected to the RS-485 port of DVR.



Item	Description
Enable PTZ	Click the box to Enable/Disable PTZ function for each channel.
Protocol	Set up the protocol of PTZ cam. The supported protocol are PELCO-P, PELCO-D, KND, LI-LIN, SAMSUNG, LG, AVTECH.
PTZ ID	Click or press ◀ ► to set up PTZ ID. The valid ID value is from 1 to 64.
Baud Rate	Select Baud Rate for PTZ from 2400, 4800, 9600
RS-485 ID	Select RS-485 ID from 1 to 64
RS-485 Baud Rate	Select RS-485 Baud Rate from 2400. 4800, 9600
Keyboard	Select Keyboard. (Li-Lin)

Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.

12345678 🕅	26 %	2/5/2010 10:13:12
	SYSTEM SETUP	
DVR Name:	H264 DVR	
DVR Location:		:13:12
Language:	Engli	ish
Remote ID:		
Auto Lock:		Disable 🗸
Display So	tup	
Date/Time S	Setup	:13:12
Device Se	tup	
Spot Set	up	
[MENU] OK; [ESC] Car	icel	OK Cancel
走快-2010/02/05 10:13:12	走快-2010/02/05 10:13:13	u 💶 👩 🖬 🖬

ltem	Description
DVR Name	The name of DVR will be shown when users login from remote access.
DVR Location	The location of DVR will be shown when users login from remote access
Language	Click or press ▼ to select OSD language from English, Traditional Chinese, Simplified Chinese, Japanese, Greek, Portuguese
Remote ID	Default ID is 1. When DVR is controlled by standard remote control, please press "DVR1*" before using it. When more than one DVRs are purchased, the DVRs can be numbered from 1 to 4. For instance, standard remote control can't operate DVR numbered 3. It only responds when "DVR3" button has been pressed beforehand.
Display Setup	Enter to set up Display
Date/Time Setup	Enter to set up Date/Time
Device Setup	Enter to set up Buzzer & Relay
Spot Setup	Enter to set up Spot

* Default ID is ID1. If remote control malfunctions, please press, "DVR1" button to renew corresponding DVR ID.

4-8.1 DISPLAY SETUP



ltem	Description
Auto-Seq Interval	Set up duration time in seconds for the interval between channels
	under Auto-Seq mode.
Show OSD	Turn On / Off OSD display
Show DVR Status	Turn On / Off DVR illustration and record status display
Show Date/Time	Turn On / Off date and time display
Show Channel Name	Turn On / Off channel name display
Deflicker	
Border Color	Set up the color of border in LIVE , PLAYBACK mode. (Red,
	Green, Blue)

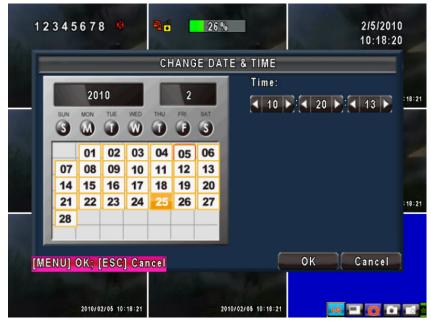
4-8.2 DATE/TIME SETUP



Item	Description
Hour Format	12HOURS/ 24HOURS
Date Format	MM-DD-YY/DD-MM-YY/YY-MM-DD
Date/Time Position	Choose the position of Time and Date display
Change Date & Time	Setup time and date of DVR
Time Zone Setup	Set up GMT and Daylight Saving Time.
Internet Time Setup	Setup automatic synchronization with internet server

4-8.2.1 CHANGE DATE & TIME

Setup date and time of DVR manually according to user's local time.



4-8.2.2 TIME ZONE AND DAYLIGHT SAVING TIME SETUP

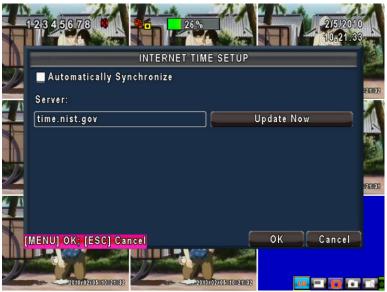
Set up time zone and activate Daylight Saving Time function according to user's DVR location.



ltem	Description
Select Time Zone	Enter to modify GMT from GMT- 13 to GMT+ 13
Daylight Saving Time	Turn on/ off Daylight Saving Time

4-8.2.3 INTERNET TIME SETUP

Synchronize your DVR time with internet time server.



Item	Description
Automatic Synchronization	Check to enable DVR automatic synchronization function. Effective by this option selected, DVR will automatically synchronize the time upon rebooting or by every 24 hours after booting.
Update Now	Effectively, Date and Time show on DVR will immediately correspond with those in internet server.

4-8.3 BUZZER & RELAY SETUP

🖲 Key Tone	BUZZER & RELA	TSEIOP	
	Buzzer	Relay	1
HDD Error		•	
Video Loss		•	
Motion		•	
Sensor			
ENU] OK; [ESC] Can			K Cance

Item	Description
Key Tone	Enable/Disable keystrokes.
Buzzer	Enable/Disable buzzer operation when the alarm is triggered for sensor, motion and vloss (Video Loss).
Relay	Enable/Disable the signal to be sent to the RELAY OUT blocks when the alarm is triggered for sensor, motion and vloss.

4-8.4 SPOT SETUP



The DVR has two modes of video output; one is main video output, the other is spot video output. SPOT setup is for controlling the order of channels the system cycles through in SPOT mode. User can monitor every channel in the SPOT mode.

Item	Description
	Channels display in spot for three different modes:
SPOT MODE	MANUAL: select channels to display manually.
SPOT WODE	SEQUENCE: Auto-sequence for all channels in order.
	EVENT: Display channels with event occurred.
Interval (Seconds)	The duration time in seconds for the interval between channels under
	SPOT mode.
Skip Video Loss	Whether to skip channels without video signal.
Channel	

4-9 UTILITY SETUP

123	45678 👋	26%	2/5/2010 10:27:29
		UTILITY	
		HDD Initialization	
		USB Initialization	:27:29
		System Recovery	
		Reset System Events	
		Copy Setup to USB	
1		Download Setup from US	B
		Upgrade	:27:29
[ESC]	Close		Close
	西瓜椒2010/02/05 10:27:29	我把西瓜做2010/027 05 10:27:	29 10 🖃 💽 🖬 📾

Item	Description
HDD Initialization	Select to enter hard disk initialization menu. Please stop recording before entering this menu. Enter the menu, system will show all the data (model ,volume) of HDD that installed in DVR. Check the HDD you'd like to initialize then press "Start". HDD initialization is successful when the status shows "Succeed"
USB Initialization	Clean up all data on USB. Enter USB initialization and press YES to clean up all data on your USB. The initialization is done when it's showed "Succeed". Restore system default values
System Recovery	
Reset System Events	Reset all the recording events in DVR.
Copy Setup to USB	Copy configuration to a USB device. There will be a file named "sdvr.config" on your USB.
Download Setup from USB	Download configuration from a USB device into DVR.
Upgrade	Upgrade DVR through USB. Please stop recording and backup setup configuration before upgrading. System will reboot automatically when the upgrade is completed.

Notice! DO NOT TURN OFF POWER OR UNPLUG USB DEVICE DURING THE UPGRADE as it may cause incomplete firmware upgrade and damage to the DVR.

4-10 DIAGNOSTIC

		DI	AGNOSTIC	
Version: 1.0.1 buil			1.0.1 build 7	
IP: 122.146.65.108				
MAC: 00:17:4F:01:B9:36				
HDD	Status:			
No.	Volume	Used	Status	Format
1	500.11GB	26%	Using	2010/01/26
ec1 (Close			Close

Item		Description
Version	Version The current firmware version of DVR	
IP		The connected IP address of DVR. If disconnected from network, the screen will display" NETWORK DISCONNECT".
MAC		MAC Address of DVR
HDD Status	No.	HDD number
	Volume	HDD Capacity
	Used Rate	Percentage of space used on HDD.
		Shows HDD status.
		USING means the HDD is being used for recording now
	Status	GOOD/BAD means the HDD has a known/unknown format for the DVR. (Note: Please initialize your newly-installed HDD before using it.)
	Format Time	The latest format time of HDD

CHAPTER 5 BACKUP & SEARCH

5-1 BACKUP SETUP

User can backup any segment of recorded data in a specified time frame. To do so, either a CD R/W or storage device, like USB, must be connected to the DVR. Recorded data can also backup into NB/PC through our remote access software: DVRemoteDesktop.exe and be saved in your assigned path. The format of backup file is *IRF* file that can be played by both "DVRemoteDesktop.exe" and "CMS"



Item	Description		
From	The start time of backup file		
То	The end time of backup file		
Device	Select USB, CD/RW or PC as the backup device		
Free Space	The available space in your backup device. (not available for PC backup)		
Refresh	Recalculate the available space of backup device. (not available for PC backup)		
Required Space	Show the size of the backup file		
Calculate	Calculate the size of backup file		
Start	Start backup operation. Be sure to calculate the size of backup file BEFORE operating backup.		

Note! Do not unplug the USB device or turn off the DVR during the backup process to avoid unrecoverable error.

5-2 SEARCH SETUP



ltem	Description
Event Search Event search menu	
Time Search Enter time search menu	

5-2.1 EVENT SEARCH

		EVENT SEARCH		
Crite	eria	Page:	(↓ 1 ▶
Date/Time		Event Type		Info
2010/02/05	09:10:31	Remote Login		Admin
2010/02/04	19:13:22	Remote Logout		Admin
2010/02/04	18:59:00	Remote Login		Admin
2010/02/03	21:31:18	Remote Logout		Admin
2010/02/03	16:30:17	Remote Login		Admin
2010/02/03	14:32:41	Remote Login		Admin
2010/02/02	10:55:43	Power On		
2010/02/01	20:21:46	Remote Logout		Admin
SC] Close				Close

The DVR automatically records events with type, time and channel information included. P.S. Event Records will still be generated even when hard disk is not installed or the record function is not activated. However, the record can't be viewed after selecting it.

Item	Description		
Criteria	Setup conditions of event search		
Page	Switch between pa	ges of events	
Date/Time	Date/time when ev	ent occurred.	
	Event type, define	ed as following	
	VLOSS	Video Loss	
	MOTION	Motion Detected	
	SENSOR	Sensor Detected	
	REMOTEIN	user log-in over the network	
Event Type	REMOTEOUT	user log-out over the network	
	POWER ON	System Reboot	
	KEY LOCK	System key locked	
	KEY UNLOCK	System key unlocked	
	System Errors	Other error message	
Info	The channel where event occurs or login user		

5-2.1.1 CRITERIA SETUP FOR EVENT SEARCH

The amount of events can be numerous. Therefore, you can facilitate event sorting by setting up "criteria". Setup "start time" and "end time" for event search, then the search result will be limited to this specific period of time. Only checked events and channels will be sorted in event search.



Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.

5-2.2 TIME SEARCH

TIME SEARCH can search for the specific time of recording data to playback. Press "Enter" or left click on the desired date to playback. Note that dates with recording data are marked with a red square " [] "System will start playing back according to the date you selected. Calendar will be shown by using mouse to click on "year" and "month".



Click "date" to display recording time of that specific date with time bar. You can change time (hour/minute/second) or click on a specific time of time bar by mouse then press "**OK**". DVR will playback the selected recording data.



AP software: \lceil DVR Remote Desktop $_{
m j}$ can allow you to remotely access and control the DVR from PC.

5-3 AP Software Installation and Setup

Step One : Enter the IP address of DVR in IE browser

de de la compañía de	- Microsoft Internet	Explorer						
檔案E	編輯(王) 檢視(Y)	我的最愛(A)	工具(<u>T</u>)	說明(<u>H</u>)				
G +-		2	🔎 搜尋	☆ 我的最愛	Ø	\$.	8	W
網址①	🗐 http://122.146.65.10	8/						

Step Two: Windows as below will show up. Please enter the user name and password. Default user name and password is admin/123456. Other related setup about user account and password, please check "4-5 Account Setup. "

連線到 122.146.6	5.108	? 🗙
	E	K
使用者名稱(U): 密碼(P):	☑ □記憶我的密碼(R) 確定	▼

Step Three: Click on the link to start downloading the AP software.



Step Four: Run or Save our AP software.



Step Five: If you choose to run the software, Start window will be shown up. Please enter information of login DVR: IP, Port, Username and Password, or choose "Play Recorded File" to open backup files in your PC.

🐱 Login		X
DVR Address:	122.146.65.108	*
DVR Port:	80	
Username:	Admin	
Password:	****	
C	OK Cancel	

Step Six: You've logged into the DVR



Note : 4CH DVR will display 4 channels and 8CH DVR will display 8 channels.

5-4 AP Software Operation

Open the file "DVRemoteDesktop.exe"; enter the information of DVR "IP address", "Port" "Username" and "Password" and click "OK". You should be able to login DVR successfully and start to use the software. The default username and password is $\$ admin/ 123456 $\$

"DVRemoteDesktop.exe" AP software provides some extra functions for remote users. Please check **Table 6-2.1** for detail information and **Table 6-2.2** for minimum system requirements for "DVRemoteDesktop.exe" operation. Table 6-2.3 is corresponding to Ethernet cable bandwidth. Please take this table for future references when applying for Internet bandwidth or connecting to Internet.

Table 5-4.1 Toolbar of AP software

File - Record to Local	Record data to your PC, including LIVE and Playback.	
File - Play Recorded Files	Play recorded files ".irf"	
File - Exit / Alt + F4	Close the AP software.	
Edit - Channel Name	Edit channel name of your DVR including font, size italic, and	
/ F2	boldface of characters	
Edit - Reset Channel Name	Reset channel name back to default.	
View - Hide Caption & Menu / F9	Hide the Caption and Menu	
View - Disable resizing / F10	Disable the function of resizing window.	
View - Full screen / F11	Switch it to full screen	
View- Render Filter	Unable/ Disable the Bilinear function	
View- Play All Frames	Unable this function will stop the audio transmission in order to	
	improve the playback speed quality.	
View- Language	Switch between languages for toolbar	
Help – About	Show information about software and information	

Table 5-4.2 System Requirements for AP software

CPU	Intel Pentium 4 above	
OS	Microsoft Windows Vista Vindows XP SP2 above	
RAM	512M above	
VGA Card	Needed to support DirectX9.0 (Above) Note 1	
Others	DirectX 9.0 above	

Note 1:

Known VGA card that support DirectX9.0 currently:

- NVIDIA: Geforce FXseries, Geforce 6series, Geforce 7series, Geforce 8series, Geforce 9series, Geforce 200series, etc.
 - Or

visit:http://en.wikipedia.org/wiki/Comparison of Nvidia graphics processing units

- ATI: Radeon R300series, Radeon R400series, Radeon R500series, Radeon R600series, Radeon R700series, Radeon HD 3xxx IGPseries, Mobility Radeonseries (9500 above), Mobility Radeon Xseries, Mobility Radeon HDseries, or FireGL Vseries etc. Or visit: http://en.wikipedia.org/wiki/Comparison_of_ATI_graphics_processing_units
- SiS: SiS 67Xseries, or SiS 77Xseries etc. Or visit: <u>http://www.sis.com/support/support_compare.htm</u>
- Intel: 91Xseries, 94Xseries, 96Xseries, G3Xseries, or G4Xseries, etc. Or visit: <u>http://en.wikipedia.org/wiki/Intel_GMA</u>

Resolution	Quality	Highest	Normal	Lowest
	16CH	6.9~7.9Mfps	3.7~5.8Mfps	1.2~2.4Mfps
D1	9CH	6.5~8.2Mfps	3.6~5.8Mfps	1~2.6Mfps
	4CH	6.6~8Mfps	3.8~6Mfps	1.4~3Mfps
	1CH	6.2~7.6Mfps	3.6~5.7Mfps	1.2~2.5Mfps
	16CH	3.6~5.4Mfps	1.9~3.5Mfps	890K~1.7Mfps
HD1	9CH	3.3~5.6Mfps	1.8~3.7Mfps	900K~1.6Mfps
ושח	4CH	3.4~5.1Mfps	1.8~3.8Mfps	850K~1.8Mfps
	1CH	3.7~6Mfps	1.6~4Mfps	870K~1.8Mfps
	16CH	1.8~3Mfps	1.2~2.2Mfps	860~1.3Mfps
	9CH	1.9~2.9Mfps	1.2~2.5Mfps	750~1.2Mfps
CIF	4CH	1.6~2.5Mfps	1.1~2.4Mfps	700~1.3Mfps
	1CH	1.8~2.9Mfps	1.4~2.6Mfps	720K~1.1Mfps

Table 5-4.3 Network Bandwidth Requirement Reference

CHAPTER 6 SPECIFICAITONS

1. VIDEO		
Input Level		1.0 Vp-p \pm 10% Composite, 75 Ω Balanced
	NTSC	480 fps(16CH), 240fps(8CH), 120fps(4CH)
Display Speed	PAL	400 fps(16CH), 200fps(8CH) , 100fps(4CH)
	NTSC	720(H) X 480(V)
Display Resolution	PAL	720(H) X 576(V)
Monitor Output		2Vp-p Composite, 75Ω Balanced
2. RECORDING		
Compression Method		H.264
Recording Speed		Refer to table 7-1
	NTSC	720 X 480, 720 X 240, 352 X 240
Recording Resolution	PAL	720 X 576, 720 X 288, 352 X 288
Quality	Independent for each channel	Lowest/ Low/ Normal/ High/ Highest
Schedule		Setup by "minute" as unit
Mode		Manual / Event (Motion, Sensor) / Schedule
		By resolution, fps and quality
Method		Setup fps and quality separately for normal and event recording
3. SATA DEVICE		
		3 HDDs or 2 HDDs + 1DVD-RW (16 CH)
Capacity	Internal Storage	2 HDDs or 1 HDDs + 1 DVD-RW (4CH/ 8CH)
	External Storage	1 HDD
Туре		SATA / SATA II compatible
External Bay Interface		E-SATA
4. ALARM		
Sensor Input		16(16CH), 8(8CH), 4(4CH)
Loop Out		1 Relay out
Motion Detection		Available per each camera/ Multi-detection level
5. CONNECTIONS		
Video Input		BNC 16 ports (16CH), 8 ports (8CH), 4 ports (4CH)
Video Output		BNC 2 port, VGA 1 port (Optional)
Audio Input		RCA 4 CH
Audio Output		RCA 1 CH
USB 2.0		USB memory stick, USB Mouse, USB Touch Panel
Remote		Remote control, 1-to-8 remote control (optional)
		1 RS-485, 16(16CH) / 8(8CH) / 4(4CH) sensor input,
External I/O		1 Relay Output
Ethernet		1 RJ45 connector, 10/100 Mbps
6. ELECTRICAL	•	
		DC 12V / 6.25A (16CH) ,
Power Source		DC 12V / 5A (8CH) , DC 12V / 5A (4CH)

Operation Temperature		5°C ~+40°C	
Humidity		Less than 90%	
8. PHYSICAL			
Dimension		430(W) x 293(D) x 55(H) mm	
Weight		2.5kg (3.5kg including 1 HDD and CD-RW)	
9. BACKUP			
	USB Stick	Video Data, Audio	
BACKUP	CD-RW/DVD±RW	Video Data, Audio	
	Network	Video Data, Audio	
10. SEARCHING & PLAYE	BACK		
Searching Type		Event/ Time	
Playback speed		120 FPS	
11. MULTI-REMOTE SURV	/EILLANCE		
Monitoring Environment		Web / Client Software(CMS)	
Max. client		Supporting multi-client (5 clients accessible)	
12. OTHERS			
OS		Embedded Linux	
Multi Task	Pentaplex	Live 、Record 、Playback 、Network 、Backup	
Control Device		Front Keys / Remote Control / 1-to-8 Remote Control (Optional) Virtual Keyboard / Mouse / AP Software	
PC Viewer		Direct monitoring of DVR's HDD on PC	
Numbers of event list		10240	

Table 6-1

		352 x 240	240fps / 16CH, 8CH
		352 X 240	120fps / 4CH
	NTSC	720 x 240	120fps / 16CH, 8CH
			60fps / 4CH
Recording		720 x 480	60fps / 16CH, 8CH
Speed		720 X 400	30fps / 4CH
(Independent setting for each channel)		352 x 288	200fps / 16CH, 8CH
			100fps / 4CH
,	PAL	720 x 288	100fps / 16CH, 8CH
			50fps / 4CH
			50fps / 16CH, 8CH
		720 x 576	25fps / 4CH
Compression Me	ethod		H.264

CHAPTER 7 MOBILE APPLICATION INSTALLATION AND USAGE

You can remotely monitor all channels of DVR through your mobile device. The required mobile application is from DVR manufacturer and it supports mobile OS for both Windows mobile 5.0 above and Symbian.

Please confirm network function of DVR has been activated before mobile connection: Main menu \rightarrow Network Setup \rightarrow HTTP Setup \rightarrow Check the "Enable HTTP Server"

7-1 Mobile Application Installation and Operation for Symbian System.

Mobile Device: Nokia, SonyEricsson...etc.

<u>System requirement:</u> GPRS/ 3G must be provided from your telecom service. Mobile device that supports GPRS/ 3G protocol and Java cldc1.0/midp 2.0 environment

*Please download both" DVRH264.jar" and "DVRH264.jad" to operate the function. Note that users with Sony Ericsson will only need to download "DVRH264.jar."

7-1.1 Mobile Application Installation

Please follow the steps cited below to perform the mobile device surveillance function.

- Step 1: The mobile application called "**DVRH264.jar**" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that packed with DVR through Bluetooth or USB cable.
- Step 2: Install the application software "**DVRH264.jar**" in your mobile device. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.

7-1.2 Mobile Application Operation



After the installation, enter the Program Files menu in your mobile device to run a file called "**DVRH264**".

Select "Menu" at the right lower corner of your mobile screen, 4 commands, **Login Add Modify** and **Delete**, will show up.

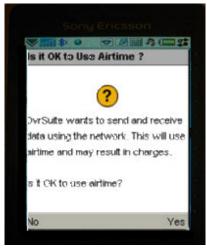
7-1.2.1 Add New Login DVR

To log into the DVR, you need to enter the logging-in DVR information. Find "**Add**" under the "Menu" then enter logging-in DVR's IP address, Port number, account name and password. Press "**Add**" to save this information after entering.



7-1.2.2 Logging Onto the DVR

Use the Login command to log onto a DVR and monitor live images. If multiple DVRs have been added to the mobile application, they will be listed by name, you can select one to log onto.



A confirmation message might show up for network charge before connection. The fee rate will depend on the telecom company and package fee you go with.



Network connectivity will take some time. It'll be affected by networking environment and bandwidth flow.

Live image will show up after a successful connection.

PS. The *Live* can not be displayed in your mobile when the recoding is off in loca I DVR.

7-1.2.3 Modify the Login Information of DVR

You can use the "**Modify**" command to change the login information of DVR. The dialogue is identical to that of the "Add" command.

36 \$		ふ(日は		Sony Ericsson
Exis 1:HS811 2:HS611	64MIDlet		ſ	H264MIDlet Edit Data HS811 IP: 122.146.65.108 PORT:
Login Add				80 ACCOUNT: admin
Modify Delete				PASSWORD: ******
Task mar	nager Select	Close		OK Back E

7-1.2.4 Delete the Login Information of DVR

"**Delete**" command can be used to remove the DVR information if it is no longer useful. Select the DVR on the name list then choose "**Delete**"

V	\$1	3.00#
H2	64MIDlet	5
Exi	sting Record	
1:HS811	littelitensse som som som	
2:HS611		
SizeAvaila	ible : 1596	62048
Login		
Add		
Modify		
Delete		
Task mar	nager	:
	Select	Close

7-1.3 Live Monitoring Operation

This paragraph describes some operation under the LIVE monitoring mode in your mobile device.

7-1.3.1 Scroll the Image

You can use the keypad on your mobile device to scroll the image if it's oversized.

Key	Action
2	Scroll Up
4	Scroll Left
6	Scroll Right
8	Scroll Down

7-1.3.2 Image Quality Setup

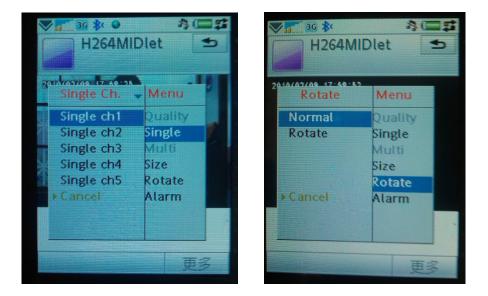


Select "Quality" under the "Menu"

Tail		
Quility	Menu	- 64
0 Low	Quality	0.2
Normal	Single	0.8
Middle	Multi	0.0
10 Hight	Size	0.3
Hightest	Rotate	0.2
Cancel	Alarm	U.Z
12343018	9 141 11 6 101	41516
Cancel		Menu

There will be 5 levels for your to choose: Low Normal Middle High and Highest.

7-1.3.3 Channel Display



Select "Single" under the "Menu", there will be all channels of your DVR in list for you to choose.

PS. The *Live* can not be displayed in your mobile when the recoding is off in local DVR.

7-1.3.4 Size of Image

The screen size of different mobile device can be different. You can select "**Size**" under the "Menu" to choose from "**Original**" or "**Fit Screen**" to resize the display image.

ltem	Description
Original	The image will be shown in original size.
Fit Screen	The image will be shown to fit the screen.

7-1.3.5 Rotate the image

The Live image can be displayed in normal or rotate to 90 degrees. Select "**Rotate**" under the "Menu" for this operation.

7-1.3.6 Alarm

This application not only allows you to remotely monitor through mobile device but receive the alarm that has been triggered by events such as Motion Detected, Sensor Triggered and Vloss.



Graphical icons below will be shown on the status:

Motion detected
 : Sensor triggered
 : Video loss

Select the "Alarm" under the "Menu" to switch this function on or off.

7-2 Mobile Application Installation and Operation for Windows Mobile System

There are two kinds of applications for Window Mobile OS: JPEG compression and H.264 compression. The one for H.264 compression can transfer both audio and video signal to your mobile device.

System Requirement:

Mobile device OS : Windows mobile system 5.0 above.

Mobile device need to support internet: GPRS / 3G / Wifi… etc.



7-2.1 Mobile Application Installation

Please follow the steps cited below to perform the mobile device surveillance function on your mobile device (mobile phone, PDA ...etc).

- Step 1: The mobile application called "Jrviewer.CAB" and "H264Pocket.CAB" need to be installed in your mobile device. The application can be downloaded directly from the manufacturer's website to your mobile or; alternatively, it can be transferred to your mobile device from the CD that packed with DVR through Bluetooth or USB cable.
- Step 2: Install the application software "Jrviewer.CAB" and "H264Pocket.CAB" in your mobile device, two folders named "Jrviewer" and "H264Pocket" will be created. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.



7-2.2 Mobile Application Operation

After the installation, enter the Program Files menu in your mobile device to run files named "**Jrviewer**" and "**H264Pocket**".

This application allows you to remotely logon and monitor DVR. Press "**OK**" to bring up the operation menu, see below chart to further information.

Item	Function	Description
Add	Add login DVR	Enter DVR's name, IP address, Port, Account user, Password then press " OK "
		Choose the DVR that you'd like to log on , then press "OK"
Login	Logon DVR	 PS. The <i>Live</i> can not be displayed in your mobile when the recoding is off. PS. Network connectivity will be affected by networking environment and bandwidth flow. The fee rate will depend on the telecom company and package fee you go with.
Modify	Modify Login DVR	Choose DVR, press "Modify", and press"OK" to save change.
Delete	Delete Login DVR	Choose DVR and press "Delete" to delete the DVR info.

The operation of **Jrviewer**



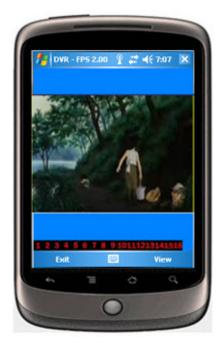
The operation of H264Pocket



7-2.3 Operation under the LIVE monitoring.

After successful logon the DVR, press "View" to bring up operation menu. You can choose the channel, resize the image, choose the quality, and turn on/off the status bar, alarm, full screen display....etc

7-2.3.1 Operation uner the LIVE monitoring for Jrviewer





Item	Function	Description	
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display	
		Original : image size as original	
Screen	Size of image	Stretch : stretch the size as full screen	
		Fit: resize the image to fit the screen	
Quality	Quality	Change the quality of image. Please note the	
Quanty	Quanty	better quality, the slower data transfer rate.	
		Graphical icons indicated below will be shown	
		on the status bar if there is event such as	
	Status Bar	motion detected, sensor triggered and video	
		loss to be detected on any channel. You can	
		also uncheck the "Status Bar" to inactivate	
Status Bar		this function.	
		Icon Description	
		3 Motion Detect	
		🛓 Sensor Trigger	
		🙎 V-Loss	
		Alarm through your mobile device can be	
Alarm	Alarm	triggered if there is event to be detected. You	
	AldIII	can also uncheck the "Alarm" under the	
		"View" to inactivate this function.	

7-2.3.2 Operation under the LIVE monitoring for H264 Pocket

🏄 DVR - FPS 1.50 💡 🚅 ◀€ 7:08 🗙	Pocket DVR 🚑 ┥€ 2:38 ok
	Osanosi (1=4) Charnel (5=8) Charnel (9=12) Charnel (9=12) Charnel (9=12) Charnel (9=12) Charnel (9=12) Charnel (9=12) Charnel (9=12) Charnel (1=4) Charnel
	Channel (13~16) +
	✓ Status Par
	Alarm Full Screen
Exit 🔤 View	Exit 🔤 View
P D F A	A T O Q
0	0

ltem	Function	Desc	criptio	n
Channel 1~16	Display for CH 1~16	Choose from CH1~16 to display. CH1~4 can		
	Display for CIT 1810	receive audio signal.		
		Graphical icons indica	ated be	elow will be shown
		on the status bar if	there	is event such as
		motion detected, sense	isor tri	ggered and video
		loss to be detected or	n any	channel. You can
		also uncheck the "St	tatus	Bar" to inactivate
Status Bar	Status Bar	this function.		
			lcon	Description
			***	Motion Detect
				Sensor Trigger
			X	V-Loss
		Alarm through your	mobil	e device can be
Alarm	Alarm	triggered if there is ev	vent to	be detected. You
		can also uncheck th	the "A	larm" under the
		"View" to inactivate thi	is func	ction.
Full Screen	Full screen display	You can choose one of	chann	el to display in full
	Full screen display	screen by check this f	functio	n.

CHAPTER 8 CMS INSTALLATION AND USAGE GUIDE

8-1 CMS Installation

System Requirement:

*Intel Pentium 4 processor or equivalent.

*Microsoft Windows Vista
Vindows XP
Vindows 2003 Server.

*Besides OS and other required APs, there will be 512MB remaining memory needed or above.

*512MB memory above.(500M requested for group DVR connection and 180M for single DVR)

 $\ast\,20\text{MB}$ HD space. Recording and image capturing require extra space for storage.

 $\ast\,\text{VGA}$ Card needs to support DirectX9 and function well while running it. Please refer to p55 Note 1.

Installation:

- 1. Connect to the manufacturer's website and download the CMS software.
- 2. Decompress and execute "setup.exe".
- 3. If "Visual C++ Runtime Libraries" has not been installed before in the operating PC, the following sign will suggest an installation automatically.

Visual C++ R	untime Libraries (x86)	
Do vou wish ti	o install these components?	
bo you misii a	o matan triese components:	
f you choose Ca	ncel, setup will exit.	

 Select "Next", and then select "Browse" to change installation path if needed. To check available space on hard disk, please select "Disk Cost" then please select "Next" to the next step.

id icms	🕼 icms 📃 🗖 🔀
Welcome to the iCMS Setup Wizard	Select Installation Folder
The installer will guide you through the steps required to install iCMS on your computer.	The installer will install iCMS to the following folder. To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse". Eolder: C.Phrogram Files/CMSV Browse Disk Communication
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	<u>Disk Cost</u>
Cancel <gack next=""></gack>	Cancel (Back Next)

🕼 icms		<mark>/</mark> ₿ iCMS	
Confirm Installation		Installing iCMS	
The installer is ready to install iCMS on your computer.		iCMS is being installed.	
Click "Next" to start the installation.		Please wait	
		riedse wait	
Cancel	< Back Next >	Cancel	< <u>B</u> ack [<u>N</u> ext≻]

5."Confirm Installation" window shows. Select 'Next' then the installation starts.

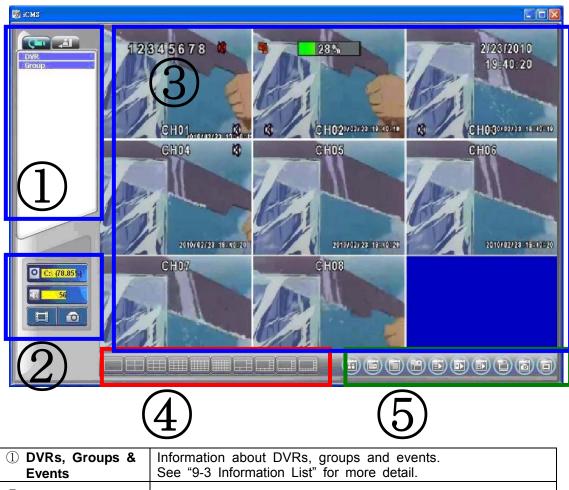
6. Select 'Close' to finish installation when the "Installation Complete" window shows.

iems			
Installation Complete			
iCMS has been successfully installed. Click "Close" to exit.			
	Cancel	<u>B</u> ack	Close

8-2 CMS LOGIN AND ENVIRONMENT

To enter CMS, the administrator's user name and password are required. The defaults are 'admin' and '123456'.

Login	X	
User:	admin	
Password:	*****	
	Login Exit	



After successful login, the following image shows on your screen:

DVRs, Groups & Information about DVRs, groups and events. See "9-3 Information List" for more detail.	
2101110	
② PC information and control	Information about local PC's hard disk, volume, recordingetc. See "9-4 PC Information and Control" for more detail.
3 Main Display Live image display area. See "9-5 Main Display" for detail.	
(4) Display Modes Several choices of display modes supported by CMS.	
5 Operation Bar	A set of 10 operations are provided by CMS. See " 9-6 Operation Bar" for detail.

8-3 DVRs, Groups & Events

Icon	Description	
C	√iew list of logged in DVR ∕ Group.	
	View Logs: list all the event information of DVR	

8-3.1 View DVR / Group List

Single left click on '**DVR**' or '**Group**' will expand/collapse the entire DVRs and groups list.

On the DVR list, **double left click on a connected DVR will show its image in main display.** See "9-6.2 DVR Administration" for further information.

On the Group list, **double left click on a group will show live image from the channels of the group in the main display.** See "9-6.3 for Group Administration" for further information.



Left-clicking on a connected DVR will expand/collapse status of its all channels as below:

lcon	Description	
•	Video Loss	
¥•	Motion Detected	
È	Sensor Triggered	



8-3.2 View Event Logs

Under this page, all the events of a DVR can be expanded/collapsed in the order of Re mote in/Remote out, Video Loss, Motion, Sensor, Others (Power Reset, Key Lock, Key Unlock, HD Full).



8-4 Local PC Information and Control

lcon	Function	Description	
○ <u>C:\ (79.56</u> %)	HDD info	Shows the ratio of available space / HDD capacity C:\ drive (where CMS is installed).	
35	Volume	PC volume or playback volume control bar.	
	Recording	Record live image to local PC storage. To view locally stored data, use "Record" under the operation bar. Also see "9-6.6 recording data" for detail.	
	Snapshot	Take snapshot to save in local PC storage. To view all the snapshots you've taken, please go to "Snapshot" under the operation bar. See "9-6.5 Snapshot data" for detail.	

Located at the left lower corner of the screen, please see the chart below:

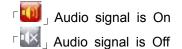
8-5 Main Display

The main display area is where the live image of DVR is shown. You can drag to change the location of screen for each channel and turn on/off audio signal with mouse-click.



8-5.1 Audio Control

In live mode, you can turn on/off the audio signal of Ch1~Ch4:



Turn on/off by clicking on the graphical icon, please note there can allow only one chan nel's audio signal to be on at one time.



8-5.2 eMAP Display

DVR HS-811L 122.146.65.108 :80

Group

In Live mode, pressing will bring the e-MAP drag-down menu. If the channel has been set up to use e-MAP, the menu will show all the e-MAP titles that have been entitled to this channel; otherwise, "No eMaps" will be shown. Please check "9-6.4 eMAP administration" for setup information.



8-5.3 PTZ Control

In the main display, right click on the channel will bring up PTZ control panel as below.



Icon	Description	
8 direction key	Rotate the PTZ	
O	ZOOM+ : Zoom in	
Q	ZOOM : Zoom out	
A	Setup the PTZ spot as pre-set N.	
\oplus_+	FOCUS+ : Focus in	
⊕_	FOCUS- : Focus out	
1	Move to pre-set N.	
Set PTZ Preset	Setup 16 pre-set N.	
Goto PTZ Preset	Move to specific pre-set N.	
Auto Tour	Activate auto pre-set tour *	
PTZ Sensitivity	Setup PTZ sensitivity *	
	Setup the "start" and "end" of	
	liner scan.*	
Cruise	Activate the liner scan cruise.	
Custom	Customization function	
AUX 1~8 (For customization)	AUTO+1 ~ AUTO+8	

*PTZ communication protocols from different brands aren't compatible 100% sometimes. Therefore, some of these functions may be unavailable.

8-6 Operation Bar

10 Operations to be listed as below:



Table 9-6.1 description of 10 operations:				
Icon	Description			
	User Administration. Please see "9-6.1 User administration"			
	DVR Administration. Please see "9-6.2 DVR Administration"			
	Group Administration. Please see "9-6.3 Group Administration"			
	eMap Administration. Please see "9-6.4 eMap Administration".			
	Remote Playback. Please see "9-6.5 Remote Playback".			
	HDD Playback. Please see "9-6.6 HDD Playback"			
	File Playback. Please see "9-6.7 File Playback"			
	Event Playback. Please see "9-6.8 Event Playback"			
	Snapshot Data. Please see "9-6.9 Snapshot Data"			
	Recording Data. Please see "9-6.10 Recording Data"			

73

8-6.1 User administration

Before the CMS can be used on a PC, user accounts should be added with proper authority. Each user should also be assigned a password and optionally a description. If a user does not have certain authority assigned, he/she will not be able to operate the corresponding function on the Operation Bar. The default is none of the authority is assigned. The administrator should assign proper authority to each user. These user accounts can be deleted or edited later on.

Select "	OK" to save the setup.
lcon	Description
÷	Add a user account. The default authority is with none permission.
1	Delete a user account.

User Administration		
[우] []	User Informat	ion
	Name:	admin
admin	Password:	•••••
	Description:	
	Permission	
Language:	DVR a	olay lay : play shot
English 🗸	Le Kecol	
	·	OK Cancel

8-6.2 DVR Administration

DVR connections can be added to or deleted from the CMS and their information can be edited. DVR's channel names can be entered here or downloaded from the DVR by pressing '**From DVR**'. Select "**OK**" to save the information.

D	VR Administration				×					
	+ =	DVR Information	3		ĥ					
	DVR HS-611	Name:	DVR HS-611							
	122.146.65.109 :80	Model:	Generic DVR							
	DVR HS-811L	Address:	122.146.65.109							
	122.146.65.108 :80	Port:	80	Channels: 16CH DVR						
		ID:	admin							
		Password:	•••••							
		Description:								
		Camera descripti	on:							
		[01]		[09]						
		[02]		[10]						
		[03]		[11]						
		[04]		[12]						
		[05]		[13]						
		[06]		[14]						
		[07]		[15]						
		[08]		[16]						
		From DVR								
	OK Cancel									

8-6.3 Group Administration

A 'Group' means a set of video channels from one or many DVRs, which means, user can organize channels from different DVRs to be set in a group. This function allows you to monitor and manager channels from multiple DVRs easily and flexible. Steps:

- 1. Add a new group and set its name and description.
- 2. Click '**Select'** which will bring up a new window.
- 3. Check the specific channels that you'd like them to be included in the group. To include all channels of a DVR, just check the DVR.

Group Adminitration		×
	Group Informa	<u></u>
Group1	Name:	Group1
	Description:	
		elect Channels of Group Selected/Max channels: 0 / 36 CDVR HS-611
		[02] [03] [04] [05] [06]
Select		- [07] - [08] - [09] - [10] - [11]
		- [12] - [13] - [14]
		CK Cancel
		OK Cancel

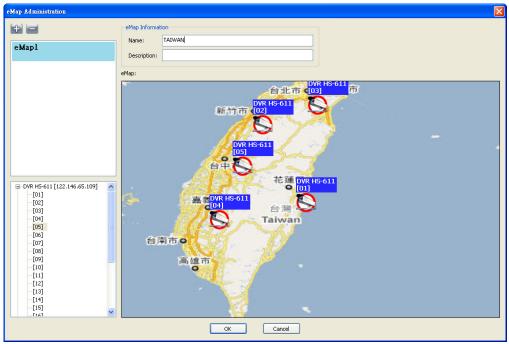
- 4. Click "**OK**" to return to the previous window.
- 5. Select a display mode.
- 6. Drag a channel from the lower left panel into the main display to a preferred location. Or, change the channel location in the main display by mouse dragging.
- 7. You can '**Select**' again to add other channels, but the un-saved channel locations will be lost.
- 8. Click "**OK**" to save the setup.

	Group Information									
Group1	Description:									
		HS-611								
		DVR HS-611 [03]								
			DVR HS-611 [05]							
Select DVR H5-611 -[01] DVR H5-611 -[03] DVR H5-611 -[05] DVR H5-611 -[07]				DVR HS-611 [07]						
лик по-611 -[U/]		_	 							

8-6.4 eMap Administration

If geographical locations are relevant, or if it is desired to use a picture as the background, eMap can be used for the purpose. With eMap, the background picture can be picked by the user and channels from multiple DVRs can be placed and dragged around on the picture. Steps to follow:

- 1. Click and a path for the picture will be prompted.
- 2. Select a picture, click OK and the picture will show in the right panel.
- 3. Drag channels in the left lower corner onto the picture to any position.
- 4. To delete a channel already on the picture, right click the channel and click 'Remove'.
- 5. Click OK to save.



8-6.5 Remote Play

Video images recorded on a DVR can be displayed on a remote CMS. With Remote Play function, select a DVR and a display mode on top of the screen. After the recorded segments are listed below, double click on one to show its image on the right.



/R:				
VR HS	-811L (122.146.65.108)		~	
No.	Start Time	End Time	~	
)	2010/02/08 17:35:04	2010/02/08 17:49:30		
	2010/02/05 17:00:00	2010/02/05 17:08:00		
2	2010/02/05 16:00:00	2010/02/05 16:59:59		
3	2010/02/05 15:00:00	2010/02/05 15:59:59		
ł	2010/02/05 14:00:00	2010/02/05 14:59:59		
;	2010/02/05 13:00:00	2010/02/05 13:59:59		
	2010/02/05 12:00:00	2010/02/05 12:59:59		
,	2010/02/05 11:00:00	2010/02/05 11:59:59		
	2010/02/05 10:00:00	2010/02/05 10:59:59		
,	2010/02/05 09:00:00	2010/02/05 09:59:59		
10	2010/02/05 08:00:00	2010/02/05 08:59:59		
1	2010/02/05 07:00:00	2010/02/05 07:59:59		
2	2010/02/05 06:00:00	2010/02/05 06:59:59		
3	2010/02/05 05:00:00	2010/02/05 05:59:59		
4	2010/02/05 04:00:00	2010/02/05 04:59:59		
5	2010/02/05 03:00:00	2010/02/05 03:59:59		
6	2010/02/05 02:00:00	2010/02/05 02:59:59		
7	2010/02/05 01:00:00	2010/02/05 01:59:59		
8	2010/02/05 00:00:00	2010/02/05 00:59:59		
19	2010/02/04 23:00:00	2010/02/04 23:59:59	-	
20	2010/02/04 22:00:00	2010/02/04 22:59:59		
21	2010/02/04 21:00:00	2010/02/04 21:59:59		
2	2010/02/04 20:00:00	2010/02/04 20:59:59		
3	2010/02/04 19:00:00	2010/02/04 19:59:59		
4	2010/02/04 18:00:00	2010/02/04 18:59:59		
5	2010/02/04 17:00:00	2010/02/04 17:59:59		
26	2010/02/04 16:00:00	2010/02/04 16:59:59		
27	2010/02/04 15:00:00	2010/02/04 15:59:59		
28	2010/02/04 14:00:00	2010/02/04 14:59:59		
29	2010/02/04 13:00:00	2010/02/04 13:59:59		
30	2010/02/04 12:00:00	2010/02/04 12:59:59		
31	2010/02/04 11:00:00	2010/02/04 11:59:59		
32	2010/02/04 10:00:00	2010/02/04 10:59:59		
33	2010/02/04 10:00:00	2010/02/04 10:59:59		
34	2010/02/04 09:00:00	2010/02/04 08:59:59		
35	2010/02/04 07:00:00	2010/02/04 07:59:59		
36	2010/02/04 07:00:00	2010/02/04 06:59:59		Sec.
37	2010/02/04 05:00:00	2010/02/04 05:59:59		

lcon	Description
\triangleright	Start playing.
	Pause.
\mathfrak{S}	Fast forward.
☆	Fast rewind.

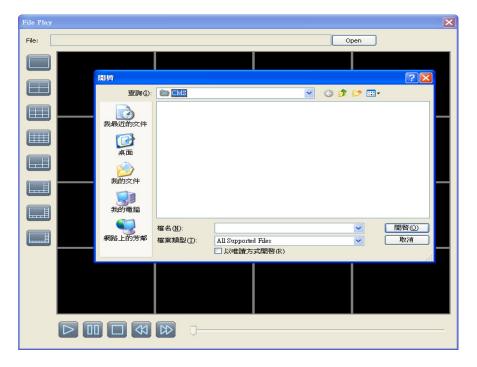
8-6.6 HDD Playback

You can directly play the recording data in the HDD that's uninstalled from DVR by CMS. See the picture below, the left part of screen is recording data in list that's separated by hour and the right part is main display. You can change the display modes and play files fast forward or rewind.

No.	Start Time	End Time		1 IIII	(and a					
1	2008/01/04 13:19:49	2008/01/04 13:30:01			コ日田田		Land Land			
2	2008/01/05 13:18:52	2008/01/05 13:22:21	_	-	-		2			
3	2008/01/07 05:18:00	2008/01/07 05:31:03							_	
4	2008/01/08 03:45:09	2008/01/08 03:49:03								
5	2008/01/17 06:21:37	2008/01/17 06:59:59								
6	2008/01/17 07:00:00	2008/01/17 07:59:59								
7	2008/01/17 08:00:00	2008/01/17 08:59:59								
8	2006/01/17 09:00:00	2008/01/17 09:59:59								
9	2008/01/17 10:00:00	2008/01/17 10:59:59								
10	2008/01/17 11:00:00	2008/01/17 11:59:59								
11	2008/01/17 12:00:00	2008/01/17 12:59:59								
12	2008/01/17 13:00:00	2008/01/17 13:59:59								
13	2008/01/17 14:00:00	2008/01/17 14:59:59							- 1	
14	2008/01/17 15:00:00	2008/01/17 15:59:59								
15	2008/01/17 16:00:00	2008/01/17 16:59:59								
16	2008/01/17 17:00:00	2008/01/17 17:59:59								
17	2008/01/17 18:00:00	2008/01/17 18:59:59								
18	2008/01/17 19:00:00	2008/01/17 19:59:59								
19	2008/01/17 20:00:00	2008/01/17 20:59:59								
20	2008/01/17 21:00:00	2008/01/17 21:59:59								
21	2008/01/17 22:00:00	2008/01/17 22:59:59								
22	2008/01/17 23:00:00	2008/01/17 23:59:59								
23	2008/01/18 00:00:00	2008/01/18 00:59:59								
24	2008/01/18 01:00:00	2008/01/18 01:59:59								
25	2008/01/18 02:00:00	2008/01/18 02:59:59								
26	2008/01/18 03:00:00	2008/01/18 03:59:59								
27	2008/01/18 04:00:00	2008/01/18 04:59:59								
28	2008/01/18 05:00:00	2008/01/18 05:59:59								
29	2008/01/18 06:00:00	2008/01/18 06:59:59								
30	2008/01/18 07:00:00	2008/01/18 07:00:21								
			100	-		_				
				S 111	1 🕸 [~				

8-6.7 File Playback

You can play the recorded .irf files by "File Play" in CMS. It allows you to change the display mode, forward or rewind the file and drag the time bar.



lcon	Description					
\square	Start Playback.					
	Pause.					
	Stop playback.					
₹\$	Fast forward.					
	Fast rewind.					

8-6.8 Event Playback

Event recordings on the DVR can be played back in CMS.

Steps to follow:

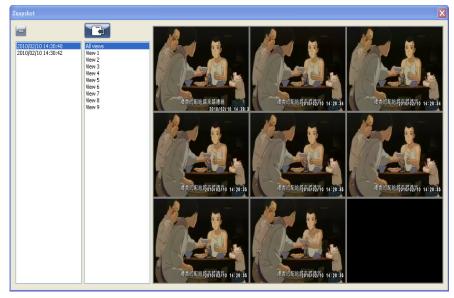
- 1. Select a DVR and a display mode.
- 2. Select a date.
- 3. Double click an event and play back the images on the right.

Use buttons at the bottom to control the playback.

Event P.	lay							
DVR: DVR HS	DVR: DVR H5-811L (122.146.65.108)							
<<		月	~	2000	~	>>	01) 🙀 (02] (x[03]
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23	24	25	26	27	28 2			
30						_	Tx[04]]
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No.	Time			Channel	Event t	/D/ ^		
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41		1/01 08:0		7	Motic			
42 43		1/01 08:0 1/01 08:0		8	Motic			
44	2000/0	1/01 08:0	2:30	3	Motic	n	MARKAN STOCKNOW DOWNLOW DOWNLOW	
45		1/01 08:0		5	Motic			
46 47		1/01 08:0 1/01 08:0		4	Motic			
48		1/01 08:0		8	Motic		•(x[07] •(x[08] IX[09]
49		1/01 08:0		1	Motic			
50		1/01 08:0		2	Motic			
51		1/01 08:0		6	Motic	n		
52		1/01 08:0		2	Motic			
53		1/01 08:0		3	Motic			
54		1/01 08:0		7	Motic			
55 56		1/01 08:0		4	Motic			
56		1/01 08:0 1/01 08:0		5	Motic Motic			
58		1/01 08:0		8	Motic			
59		1/01 08:0		1	Motic			
60		1/01 08:0		2	Motic			
61		1/01 08:0		3	Motic			
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8-6.9 Snapshot Data

It can display all the snapshots you've taken in line in "Snapshot Data". You can review, delete or save as other files here.



8-6.10 Recording Data

It can play all the recording files you've recorded in line in "Recording Data". You can play or delete them here.

Steps:

- $1 \cdot$ Choose the recording time at upper left corner, it will be played on the main display.
- 2 \cdot You can choose the display mode.
- $3 \cdot$ Time bar will be shown at right lower corner, please drag the time bar to specify the recording time you'd like to play.

