H.264 DVR User Manual

— 4CH DVR **—**







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol is intended to alert the user to the presence of unprotected "Dangerous voltage" within the product's enclosure that may be strong enough to cause a risk of electric shock.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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 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.

Conents

CH	APTER 1 PACKING DETAIL AND INSTALLATION
1-1	Packing
СН	IAPTER 2 PANEL LOCATION
2-1	Front Panel Controls
2-2	Rear Panel Connectors
СН	IAPTER 3 SPECIFICATIONS
СН	HAPTER 4 LIVE, PLAYBACK AND PTZ OPERATIONS
4-1	Live Mode
	4-1.1 Remote Controller
4-2	Playback Mode
4-3	PTZ Mode
СН	IAPTER 5 MAIN MENU SETUP
5-1	Record Setup
	5-1.1 Quality & Frame Rate Setup
5-2	Event Setup
	5-2.1 Motion Setup
	5-2.1.1 Motion Area Setup
	5-2.2 Sensor Setup
5-3	Schedule Setup
	5-3.1 Schedule Record Setup
	5-3.2 Holiday Setup
5-4	Camera Setup
5-5	Account Setup
	5-5.1 Permission Setup
5-6	Networking Setup
	5-6.1 Networking Setup
	5-6.1.1 DHCP
	5-6.1.2 LAN
	5-6.1.3 ADSL
	5-6.2 HTTP Setup
	5-6.3 DDNS Setup
	5-6.4 Mail Setup
5-7	PTZ & RS485 Setup
5-8	System Setup
	5-8.1 Display Setup
	5-8.2 Date/Time Setup

	5-8.2.1 Change Date & Time
	5-8.2.2 Time Zone Setup
	5-8.2.3 Internet Time Setup
5	-8.3 Buzzer & Relay Setup
5	-8.4 SPOT Setup
5-9 U	Itility Setup
5-10	Diagnostic
СНА	APTER 6 BACKUP & SEARCH
6-1 B	Backup Setup
6-2 S	Search Setup
6	-2.1 Event Search
	6-2.1.1 Criteria Setup For Event Search
6	-2.2 Time Search
СНА	APTER 7 NETWORK SURVEILLANCE
7-1 IE	E Setup
7-2 A	P Software Installation and Setup
7-3 A	P Software Operation
CHA	PTER 8 MOBILE APPLICATION INSTALLATION AND USAGE
8-1 N	Mobile Application Installation and Operation for Symbian System
8	-1.1 Mobile Application Installation
8	-1.2 Mobile Application Operation
	8-1.2.1 Add New Login DVR
	8-1.2.2 Logging Onto the DVR
	8-1.2.3 Modify the Login Information of DVR
	8-1.2.4 Delete the Login Information of DVR
8	-1.3 Live Monitoring Operation
	8-1.3.1 Scroll the Image
	8-1.3.2 Image Quality Setup
	8-1.3.3 Channel Display
	8-1.3.4 Size of Image
	8-1.3.5 Rotate the Image
	8-1.3.6 Alarm
8-2 N	Mobile Application Installation and Operation for Windows Mobile System
8	-2.1 Mobile Application Installation
8	-2.2 Mobile Application Operation
8	-2.3 Operation Under The Live Monitoring
	8-2.3.1 Operation Under The LIVE Monitoring For Jrviewer
	8-2 3 2 Operation Under The LIVE Monitoring For H264 Pocket

CHAPTER 9 CMS INSTALLATION AND USAGE GUIDE	56
9-1 CMS Installation	56
9-2 CMS Login and Environment	58
9-3 DVRs, Groups & Events	58
9-3.1 View DVR / Group List	59
9-3.2 View Event Logs	59
9-4 Local PC Information and Control	60
9-5 Main Display	61
9-5.1 Audio Control	61
9-5.2 eMAP Display	62
9-5.3 PTZ Control	62
9-6 Operation Bar	63
9-6.1 User Administration	64
9-6.2 DVR Administration	64
9-6.3 Group Administration	65
9-6.4 eMAP Administration	66
9-6.5 Remote Play	66
9-6.6 HDD Playback	67
9-6.7 File Playback	68
9-6.8 Event Playback	68
9-6.9 Snapshot Data	70
9-6.10 Recording Data	70
APPENDIX I HARD DISK INSTALLATION	71
I-1 Hard Disk Installation	71

CHAPTER 1 PACKING DETAIL AND INSTALLATION

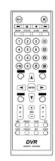
1-1 PACKING



1. DVR



2. User Manual



3. IR Remote Control



4. Batteries x 2



5. CD



6. Power Adapter



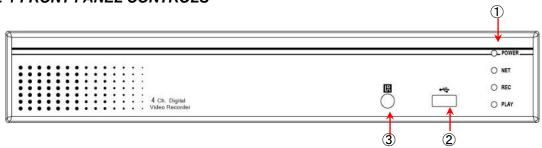
7. Power Cord



8. HDD Screws x 4

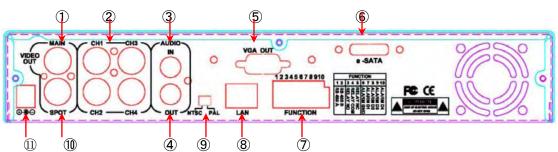
CHAPTER 2 PANEL LOCATION

2-1 FRONT PANEL CONTROLS



Control Keys	Description
	POWER: Power is on.
① LED DISPLAY	NET : Remote user logged in.
1 LED DISPLAT	REC : Recording.
	PLAY: Playing back.
② USB 2.0 PORT Port for USB external devices.	
③ IR SENSOR Input sensor for the remote control.	

2-2 REAR PANEL CONNECTORS



• •			
① VIDEO OUT (MAIN)	BNC output port for the main monitor.		
② VIDEO IN	BNC input ports for cameras.		
③ AUDIO IN	RCA input port for audio signal		
4 AUDIO OUT	RCA output for audio signal.		
⑤ VGA	VGA port.		
⑥ e-SATA	External SATA hard disks port.		
⑦ FUNCTION	1: RS-485 A 2: RS-485 B 3: RELAY NO 4: RELAY COM 5: RELAY NC	6: ALARM IN GND 7: ALAMR IN CH1 8: ALARM IN CH2 9: ALARM IN CH3 10: ALARM IN CH4	
8 LAN	Network port.		
9 NTSC / PAL SWITCH	Switch between NTSC and PAL format.		
(1) SPOT MONITOR	BNC port to display full screen image of all installed cameras in sequence.		
① DC 12V	Socket for a DC 12V input.		

CHAPTER 3 SPECIFICAITONS

1. VIDEO			
Input Level		1.0 Vp-p±10% Composite, 75Ω Balanced	
D: 1 0 1	NTSC	120fps (4CH)	
Display Speed	PAL	100fps (4CH)	
Display Pasalution	NTSC	720 x 480	
Display Resolution	PAL	720 x 576	
Monitor Output		2Vp-p Composite, 75Ω Balanced	
2. RECORDING			
Compression Method		H.264	
Recording Speed		Refer to table 3-1	
Recording Resolution	NTSC	720 x 480, 720 x 240, 352 x 240	
- recording recording	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			
Capacity	Internal Storage	1HDD	
Type		SATA / SATA II compatible	
External Bay Interface		E-SATA	
4. ALARM			
Sensor Input		4 (4CH)	
Motion Detection		Available per each camera/Multi-detection level	
5. CONNECTIONS	1		
Video Input		BNC 4 ports (4CH)	
Video Output		BNC 1port ; VGA 1 port (Option)	
Audio Input		RCA 1CH	
Audio Output		RCA 1 CH	
USB 2.0		USB memory stick, USB Mouse, USB Touch Panel	
Remote		Standard remote control	
External I/O		1 RS-485, 4 (4CH) sensor input, 1 Relay Output	
Ethernet		1 RJ45 connector, 10/100 Mbps	
6. ELECTRICAL			
Power Source		DC 12V/3A above	

7. ENVIRONMENTAL					
Operation Temperature		5°C ~ + 40°C			
Humidity		Less than 90%			
8. PHYSICAL					
Dimension		95 (W) x 440 (D) x 280(H) mm			
Weight		2.6kg			
9. BACKUP					
BACKUP	USB Stick	Video Data, Audio			
BACKOI	Network	Video Data, Audio			
10. SEARCHING & PLAYE	10. SEARCHING & PLAYBACK				
Searching Method		Event / Time			
11. MULTI-REMOTE SURVEILLANCE					
Monitoring Environment		Web / Client Software (CMS)			
Max. client		Supporting multi-client (5 clients accessible)			
12. OTHERS	12. OTHERS				
os		Embedded Linux			
Multi Task	Pentaplex	Live · Record · Playback · Network · Data transfer			
Ocatal Device		Front Keys / Remote Control			
Control Device		Virtual Keyboard / Mouse / AP Software			
PC Viewer		Direct viewing of DVR's HDD on PC			
Numbers of event list		9999			

Table 3-1

		352 x 240	120fps / 4CH
Recording	NTSC	720 x 240	60fps / 4CH
Speed		720 x 480	30fps / 4CH
(Independent setting for each		352 x 288	100fps / 4CH
channel)	PAL	720 x 288	50fps / 4CH
		720 x 576	25fps / 4CH
Compression Method			H.264

CHAPTER 4 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.

4-1 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.

4-1.1 REMOTE CONTROLLER

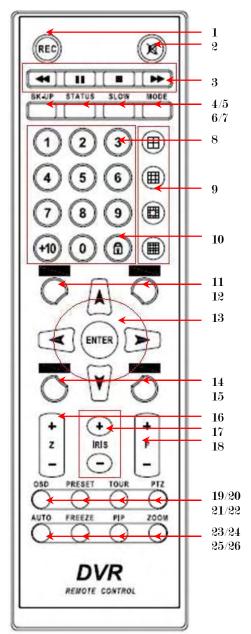


Table 4-1.1 Remote control functions under the LIVE mode

Button Name	Button Name Description		
1. REC	Start/Stop recording.		
2.	Audio		
3. 44	Fast forward; Pau	se; Stop; Fast rewind	
4. BK-UP	Display backup me	nu.	
5. STATUS	Display status.		
6. SLOW	Press this button to speed	slow-down playback	
7. MODE			
8. 1,27,8,9, +10	Select the channel from 1 to 16	to monitor in full screen	
9. 🎛 🖽 🖽	Switch to Quad/9/1	3/16 channel display	
10. (a) 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 mer	nu.	
ENTER D	A: Up✓: Down<: Left>: RightENTER	Direction and ENTER buttons.	
14. MEMU	Display setup men	u.	
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. PRESET			
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.		

Table 4-1.2 Graphical icons that appeared after right-clicked on the mouse under LIVE mode.

Icon	Description	Icon	Description
	Setup	Ш	Pause
•	Main Menu		PIP, picture in picture
	Search Setup	lacksquare	ZOOM, double the screen size
	Backup	O	Auto-Sequence
9	PTZ Control	•	LOCK, activate the key lock.
6	Record On / Off	R.D	Full Screen
	Playback		Quad Display
	Display Setup		

Table 4-1.3 Description of on screen graphical icons in LIVE mode

Icon	Description	lcon	Description
	Recording is on		Remote user currently logging into DVR
	Audio is on		Timer recording is on Red: Timer is set and recording has
O	Audio is off	\odot	been started White: Timer is set but recording has not yet been started
K	Motion detected on the channel	(69)	Auto-Seq is on
	Sensor triggered on the channel	2X	2X zoom in is on
	Video loss detected on the channel		Pause is on, screen is frozen
	USB device detected	(Constitution	Lock is on
	DVD burner is detected		PTZ control is on

4-2 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.

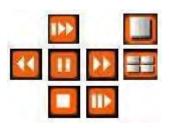


Table 4-2.1 Remote control functions under the PLAYBACK mode

Button	Description		
ENTER / MODE	Switch to full screen, quad 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.		
>> / >	Fast rewind. Each press increases the speed to the next level. There are six speeds: 2x, 4X, 8X, 16X, 32X and 64X.		
44/4	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 4-2.2 Mouse operation under the PLAYBACK mode.

Icon	Description	lcon	Description
44	「◀◀/◀」Fast rewind		「▼ ∕ ■」, Stop playback
>>	「▶▶ ∕ ▶ 」 Fast forward	II >	Playback channel by channel with snap shot display
	Play / Pause		Full screen display
I	「▲∕SLOW」, Slow playback		Quad display

4-3 PTZ MODE

Switch to the PTZ mode by pressing "PTZ" button under the LIVE mode. The PTZ icon will appear on upper left of the screen but it can be re-located on any place of your screen by dragging the mouse.



Table 4-3.1 Remote Control functions under the PTZ mode

Button	Description
▲/SLOW	Move PTZ up.
▼/■	Move PTZ down.
44/4	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.
AUTO	Activate AUTO line-scan.
ZOOM	Set current PTZ location as the end of line-scan



Table 4-3.2 Mouse operation under the PTZ mode

Icon	Description		
	Leave PTZ Mode, back to the LIVE mode.		
•	Pre-set number N. (1~64).		
1 _∞ >	Go to pre-set number N.		
1	Set current PTZ location at pre-set number N.		
\sim	「TOUR」, press to activate pre-set tour.		
	「PIP」, Set current PTZ location as the start of the line-scan.		
*	「FREEZE」, Activate line-scan.		
~	「ZOOM」, Set current PTZ location as the end of the line-scan.		
> > > >	To move PTZ in 360°.		
+ ZOOM -	PTZ zoom in; PTZ zoom out.		
+ FOGUS -	PTZ focus in; PTZ focus out.		
🕂 IRIS 🖛	PTZ IRIS open, PTZ IRIS close.		
	Below functions need support from specific PTZ manufacturer. Please check user manual of your PTZ for more detail.		
1	AUX 1, 「AUTO」key + Number Key「1」		
2	AUX 2, 「AUTO」 key + Number Key「2」		
3	AUX 3, 「AUTO」 key + Number Key 「3」		
4	AUX 4, 「AUTO」key + Number Key「4」		
5	AUX 5, 「AUTO」 key + Number Key「5」		
6	AUX 6, 「AUTO」 key + Number Key「6」		
7	AUX 7, 「AUTO」 key + Number Key「7」		
8	AUX 8, 「AUTO」 key + Number Key「8」		
	「Backup」, Customized function.		

CHAPTER 5 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.

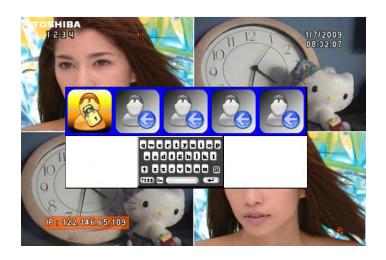


Table 5-0.1 Definition of the virtual keyboard.

Item	Description
1	Switch between capital and small letters.
?123 / 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 password is verified.



Table 5-0.2 The operation of remote control under the setting menu

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

5-1 RECORD SETUP



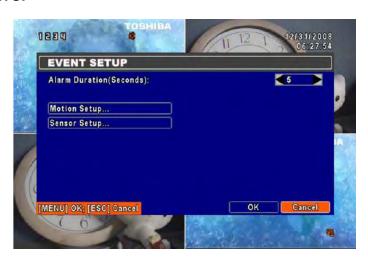
Item	Description
HDD FULL	Select STOP to stop recording or OVERWRITE to reuse the HDD when HDD is full 「STOP」: Stop Recording 「OVERWRITE」: Start to overwrite that begin from the oldest data of HDD, and continue to record.
RECORD NORMAL	Enable/Disable normal recording
RECORD MOTION	Enable/Disable recording while Motion is detected
RECORD SENSOR	Enable/Disable recording while Sensor is triggered
PRE ALARM RECORD	Enable/Disable pre-event recording while motion or sensor is triggered but not in the recording mode. The pre-recording time is approximate at 10 seconds (16 MB).
AUDIO RECORD	Enable/Disable Audio recording.
QUALITY & FRAME RATE SETUP	Setup the quality and frame rate for each channel under normal recording and event recording type.

5-1.1 QUALITY & FRAME RATE SETUP



Item	Description
RESOLUTION	Choose record resolution from : CIF/HD1 (2CIF)/D1.
RECORD TYPE	You can setup quality and FPS separately for record type.
NO.	Check/uncheck the box will enable/disable recording of that channel.
QUALITY	Choose from Lowest/Low/Normal/High/Highest.
FPS	Choose recording frame rate.

5-2 EVENT SETUP



Item	Description
ALARM DURATION (SECONDS)	Set up alarm duration in seconds. Drag the white bar or press ◀ ▶ to adjust value.
MOTION SETUP	Enter to set up motion detection.
SENSOR SETUP	Enter to set up sensor detection.

5-2.1 MOTION SETUP



Item	Description
MOTION DETECTION	Check the box to Enable/Disable Motion Detection for all channels.
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.
1~4	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 from 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 value 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

5-2.1.1 MOTION AREA SETUP

The motion area setup allows users to select multiple areas where camera should watch for motion detection. The default area is entire screen. Click and drag the cursor without lifting to mark your selected motion detection area.



Item	Description
LOCK/ZOOM	Press LOCK/ZOOM to select entire screen as detection area.
MUTE/PIP	Press MUTE/PIP to deselect entire screen as detection area.
STATUS	Switch between "SELECT" and "DESELECT" for cursor-dragging function.
ENTER	Press to function on the selected area with assigned status.
MENU	Press to save the setup and leave.
ESC	Press to cancel the setup and leave.

5-2.2 SENSOR SETUP



Item	Description
SENSOR DETECTION	Check the box to Enable/Disable sensor detection for all channels.
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.
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.

5-3 SCHEDULE SETUP

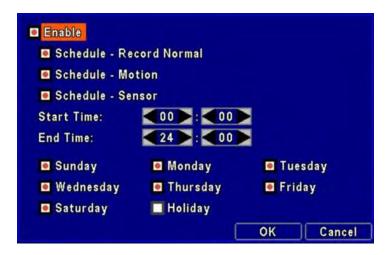
Except from starting recording manually, you can also setup the recording time by weeks and schedule including normal, motion detect, and sensor detect recording type.



Item	Description
PAGE	Click or press ▼ to select 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 SETUP	View Normal/Motion/Sensor Setup.

5-3.1 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.



5-3.2 HOLIDAY SETUP

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



5-4 CAMERA SETUP



Item	Description
1~4	You can setup independently for each channel.
MASK	Check the box to Enable/Disable mask function for LIVE mode
BRIGHTNESS	Drag the white bar or press ◀ ▶ to adjust Brightness of your camera from value 1 to 255. The default value is 128.
CONTRAST	Drag the white bar or press ◀ ▶ to adjust Contrast of your camera from value 1 to 255. The default value is 128.
SATURATION	Drag the white bar or press ◀ ▶ to adjust Saturation of your camera from value 1 to 255. The default value is 128.
HUE	Drag the white 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	Select to adjust Volume in live mode for CH1 to CH 4 under LIVE mode and recording mode.

5-5 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 is 「admin」 and password is "123456".



Item	Description		
	Function Setting	Auto Logout	Key Lock
AUTO LOCK	Key lock	0	0
	Key unlock	0	X
	Disable	X	X
NO.	Check to activate the user's account.		
PASSWORD	Enter to set up password for each user. Password can be set up to 8 characters mixed by letters and numbers with case-sensitive.		
PERMISSIONS	Enter to set up Permissions for each user.		
CHANGE ADMIN PASSWORD	Enter to change administrator's password		

- P.s.1: When logged out automatically, you will have to operate in limited authority such as operations like: Freeze the screen, Picture in picture, Zoom in / out, switch between channels...etc. If you need to enter the Setup menu, Search menu, backup menu, Record...etc, user's account and password are required.
- P.s.2: When the key lock automatically, remote control and mouse can't function before entering verified password.
- P.s.3 : $\lceil \bigcirc \rfloor$: Enable the function, $\lceil X \rfloor$: Disable the function

5-5.1 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 and Mask on specific channels while playing back.



5-6 NETWORKING SETUP



Item	Description
CONNECT TYPE	Setup mode for network connection: DHCP \ LAN \ ADSL.
HTTP SETUP	Enter to set up HTTP for remote access into DVR.
DDNS SETUP	Enter to Enable/Disable DDNS function and set up.
MAIL SETUP	Enter to enable/disable Email notification and setup. There are up to 10 email addresses can be notified with different event options.

5-6.1 NETWORKING SETUP

The DVR supports DHCP, LAN and ADSL accesses for network connection. If the settings are subsequently changed, pressing "PLAY" button to drive new settings for re-connection is required.

5-6.1.1 DHCP

If the DHCP option is used for DVR network connection, an IP address is assigned by the DHCP server automatically.



5-6.1.2 LAN

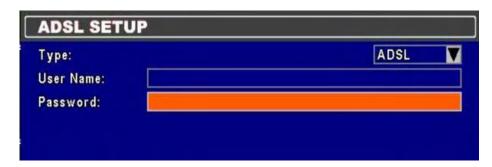
Select LAN for network connection, the following information is required.



Item	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).

5-6.1.3 ADSL

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



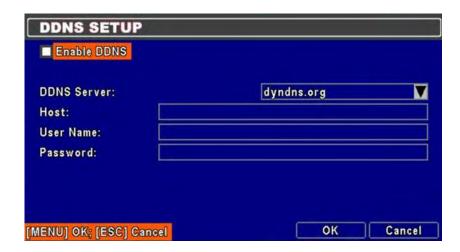
Item	Description
USER NAME	Enter user name provided by ISP
PASSWORD	Enter password provided by ISP

5-6.2 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.

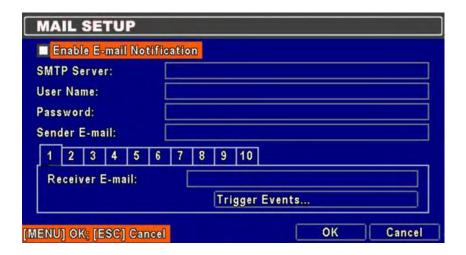
5-6.3 DDNS SETUP



Item	Description
ENABLE DDNS	Check/Uncheck to enable/disable DDNS function.
DDNS SERVER	Enter the registered SMTP Server : DYNDNS.ORG \ NO-IP.ORG \ CUSTOM.COM
SMTP SERVER	Enter the registered SMTP Server.
USER NAME	Enter user name.
PASSWORD	Enter password.

5-6.4 MAIL SETUP

E-mail can be used as a form of notification when an event occurs (VLOSS, MOTION, and SENSOR).



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 sender.
E-MAIL ADDRESS	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).

5-7 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.
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

5-8 SYSTEM SETUP



Item	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, Chinese, Greek, Italian, Japanese, Portuguese, Spanish, German, French, Russian or Polish.
AUTO-SEQ. INTERVAL (SECONDS)	Click or press ◀ ▶ to setup duration time in seconds for the interval between channels under Auto-Seq. mode.
REMOTE ID	The default Remote ID is 0, when DVR is controlled by standard remote controller.
DISPLAY SETUP	Enter to setup Display
DATE/TIME SETUP	Enter to setup Date/Time
BUZZER & RELAY SETUP	Enter to setup Buzzer & Relay
SPOT SETUP	Enter to setup Spot

5-8.1 DISPLAY SETUP



Item	Description
OSD	Turn On/Off OSD display
DVR STATUS	Turn On/Off DVR illustration and record status display
DATE/TIME	Turn On/Off date and time display
MESSAGE	Turn On/Off message display
CHANNEL NAME	Turn On/Off channel name display
BORDER SET	Set up the color of border in LIVE1, PLAYBACK mode. (black \ dark grey \ light grey \ white)

5-8.2 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	Setup GMT and Daylight Saving Time.
INTERNET TIME SETUP	Setup automatic synchronization with internet server

5-8.2.1 CHANGE DATE & TIME

Users are allowed to setup date and time of DVR manually according to your local time.

5-8.2.2 TIME ZONE SETUP

In time zone setup, users can change your time zone and activate Daylight Saving Time function according to your DVR location.



Item	Description
SELECT TIME ZONE	Enter to modify GMT from GMT- 13 to GMT+ 13
DAYLIGHT SAVING TIME	Turn on/off Daylight Saving Time

5-8.2.3 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.

5-8.3 BUZZER & RELAY SETUP



Item	Description
KEY TONE	Enable/Disable keystrokes.
RELAY SWITCH CONNECTION	Set relay signal to be Normal Close (N.C.) or Normal Open (N.O.).
BUZZER DURATION	Set up the duration from 1~999 seconds.
ALARM BUZZER	Enable/Disable buzzer operation when the alarm is triggered for sensor, motion and Vloss (Video Loss).
ALARM RELAY	Enable/Disable the signal to be sent to the RELAY OUT blocks when the alarm is triggered for sensor, motion and Vloss.

5-8.4 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
SPOT MODE	Channels display in spot for three different modes: MANUAL: Select channels to display manually. 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 CHANNEL	Whether to skip channels without video signal.

5-9 UTILITY SETUP



Item	Description
HDD INITIALIZATION	Select to enter initialize hard disk 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 succeeded 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".
SYSTEM RECOVERY	Restore system default values
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.

5-10 DIAGNOSTIC



Item	Description
VERSION	The current firmware version of DVR
IP ADDRESS	The connected IP address of DVR. If disconnected from network, the screen will display "NETWORK DISCONNECT".
MAC ADDRESS	MAC Address of DVR
HDD VOLUME	The capacity of HDD
HDD USED RATE	Percentage of space used on HDD.
HDD STATUS	Shows HDD status. USING means the HDD is being used for recording now GOOD/BAD means the HDD has a known/unknown format for the DVR. (Note: Please initialize your newly-installed HDD before using it, otherwise it can be recognized as BAD by DVR.)
FORMAT TIME	The latest format time of HDD

CHAPTER 6 BACKUP & SEARCH

6-1 BACKUP SETUP

User can backup any segment of recorded data in a specified time frame. To do so, either a Remote Network or storage device, like USB, must be connected to the DVR. The format of backup file is IRF file that can be played by "DVRemoteDesktop.exe" or "iCMS"



Item	Description
FROM	The start time of backup file
ТО	The end time of backup file
DEVICE	Select USB or Remote Network as the backup device
FREE SPACE	The available space in your backup device
REFRESH	Recalculate the available space of backup device
CALCULATE	Calculate the size of backup file
START	Start backup operation. Be sure to calculate the size of backup file BEFORE operating backup.

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

6-2 SEARCH SETUP



Item	Description
EVENT SEARCH	Press to enter event search menu
TIME SEARCH	Press to enter time search menu

6-2.1 EVENT SEARCH



The DVR automatically records events with type, time and channel information included. If there is recording data for an event, the recording signal will be shown on the left side of time information. Rest your cursor under the line and press "ENTER", or left click your mouse to playback the recording data.

Item	Description	
CRITERIA	Setup conditions of event search	
PAGE	Convert pages of events	
DATE/TIME	Date/time when event occurred.	
	Event type, defined 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 Rebooting
	KEY LOCK	System key are locked
	KEY UNLOCK	System key are unlocked
	HDD FULL	HDD is FULL
CHANNEL	The channel where event occurred.	

6-2.1.1 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 as well.



6-2.2 TIME SEARCH

TIME SEARCH can search for the specific time of recording data to playback. To specify a date, use ◀ or ▶ to move the cursor up and down, use ▲▼ or roll the mouse to change dates. 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 "YES". DVR will playback the selected recording data.



CHAPTER 7 NETWORK SURVEILLANCE

7-1 IE SETUP

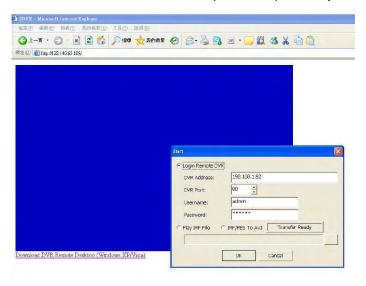
Step One: Enter the IP address of DVR in IE browser. Here you may choose to setup IE remote or download the AP software.



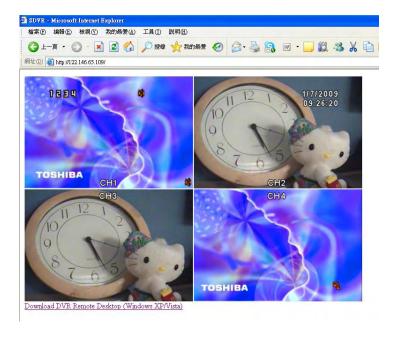
Step Two: Click OK when window prompts to install an ActiveX for IE remote. After Please enter the user name and password. Default user name is admin and password is 123456.
Other related setup about user account and password, please check "5-5 ACCOUNT SETUP."



Step Three: Please enter information of login DVR: IP, Port, Username and Password, or choose "PLAY RECORDED FILE" to open backup files in your PC.



Step Four: You've logged into the DVR



7-2 AP SOFTWARE INSTALLATION AND SETUP

AP software: 「DVR Remote Desktop」 can allow you to remotely access and control the DVR from PC.

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



Note: This IP is only for reference. Please setup your local IP.

Step Two: Below windows will be shown up. Please enter the user name and password. Default user name is **admin** and password is **123456**. Other related setup about user account and password, please check "5-5 ACCOUNT SETUP."



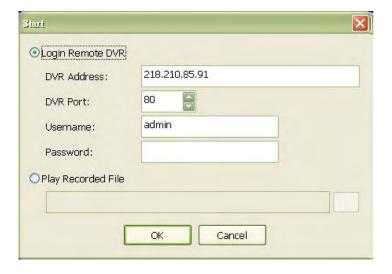
Step Three: Click on the link to start downloading the AP software.



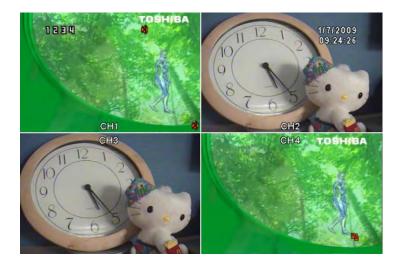
Step Four: Run or Save our AP software.



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.



Step Six: You've logged into the DVR



7-3 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」

The operation of AP software remains the same as local DVR; furthermore, it provides some exclusive functions for remote users. Please check **Table 7-3.1** for detail information and **Table 7-3.2** for system requirements for AP software.

Table 7-3.1 Toolbar of AP software

FILE - RECORD TO LOCAL	Record data to your PC, including <i>LIVE</i> and <i>Playback</i> .
FILE - PLAY RECORDED FILES	Play recorded files ".irf"
FILE – EXIT / ALT + F4	Close the AP software.
EDIT - CHANNEL NAME / F2	Edit channel name of your DVR including font, size italic, and 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 resizing the window.
VIEW - FULL SCREEN / F11	Switch it to full screen.
HELP – ABOUT	Show information about software and information.

Table 7-3.2 System Requirements for AP software

CPU	Intel Pentium 4 above
os	Microsoft Windows Vista · Windows XP SP2 above
RAM	512M above
OTHERS	DirectX 9.0 above

CHAPTER 8 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 → Network Setup → HTTP Setup → Check the "ENABLE HTTP SERVER"

8-1 MOBILE APPLICATION INSTALLATION & OPERATION FOR SYMBIAN SYSTEM

Mobile Device: Nokia, SonyEricsson...etc.

System requirement:

- > GPRS/3G must be provided from your telecom service.
- ➤ Mobile device should be support GPRS/3G protocol and Java cldc1.0/midp 2.0 environment.

8-1.1 MOBILE APPLICATION INSTALLATION

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

- **Step 1**: 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 in your mobile device. It might be installed automatically after downloading; otherwise, select it from the downloading file for installation.

8-1.2 MOBILE APPLICATION OPERATION

After the installation, enter the Program Files menu in your mobile device to run a file called "H.264 MIDIet".

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

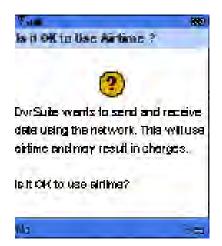
8-1.2.1 ADD NEW LOGIN DVR

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.



8-1.2.2 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.

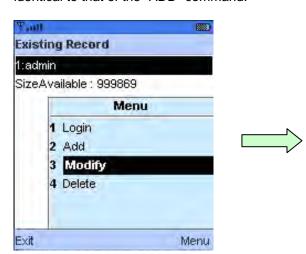
Live image will show up after a successful connection.

PS. The *Live* cannot be displayed in your mobile when the recording is off in local DVR.



8-1.2.3 MODIFY THE LOGIN INFORMATION OF DVR

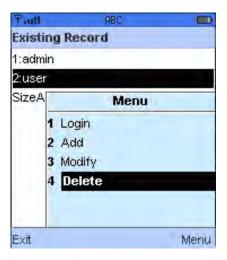
You can use the "MODIFY" command to change the login information of DVR. The dialogue is identical to that of the "ADD" command.





8-1.2.4 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"



8-1.3 LIVE MONITORING OPERATION

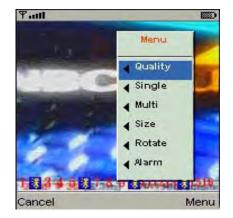
This paragraph describes some operation under the LIVE monitoring mode in your mobile device.

8-1.3.1 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

8-1.3.2 IMAGE QUALITY SETUP



Select "QUALITY" under the "MENU"



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

8-1.3.3 CHANNEL DISPLAY

You can choose single or quad channel display for live monitoring.



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

PS. The *Live* cannot be displayed in your mobile when the recording is off in local DVR.

8-1.3.4 SIZE OF IMAGE

The screen size of different mobile device can be really different. You can select "SIZE" under the "MENU" to choose from "ORIGINAL" or "FIT SCREEN" to resize the display image.

Item	Description	
ORIGINAL	The image will be shown in original size.	
FIT SCREEN	The image will be shown to fit the screen.	



8-1.3.5 ROTATE THE IMAGE

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



8-1.3.6 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.



8-2 MOBILE APPLICATION INSTALLATION & 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.

8-2.1 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" 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" 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.







8-2.2 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"
LOGIN	Logon DVR	 ◆ Choose the DVR that you'd like to log on, then press "OK". ◆ PS. The Live cannot 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 H.264Pocket



8-2.3 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.

8-2.3.1 OPERATION UNDER THE LIVE MONITORING FOR JRVIEWER





Item	Function	Description
CHANNEL 1~4	Display for CH 1~4	Choose from CH1~4 to display
SCREEN	Size of image	Original: image size as original 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 better quality, the slower data transfer rate.
STATUS BAR	Status Bar	Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the "STATUS BAR" to inactivate this function. Icon Description
ALARM	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also uncheck the "ALARM" under the "VIEW" to inactivate this function.

8-2.3.2 OPERATION UNDER THE LIVE MONITORING FOR H.264 POCKET





Item	Function	Description	
CHANEEL 1~4	Display for CH 1~4	Choose from CH1~4 to display. CH1~4 can receive audio signal.	
		Graphical icons indicated below will be shown on the status bar if there is event such as motion detected, sensor triggered and video loss to be detected on any channel. You can also uncheck the "STATUS BAR" to inactivate this function.	
STATUS BAR	Status Bar	Icon Description	
		Motion Detect	
		Sensor Trigger	
		V-Loss	
ALARM	Alarm	Alarm through your mobile device can be triggered if there is event to be detected. You can also uncheck the "ALARM" under the "VIEW" to inactivate this function.	
FULL SCREEN	Full screen display	You can choose one channel to display in full screen by check this function.	

CHAPTER 9 CMS INSTALLATION AND USAGE GUIDE

9-1 CMS INSTALLATION

System Requirement:

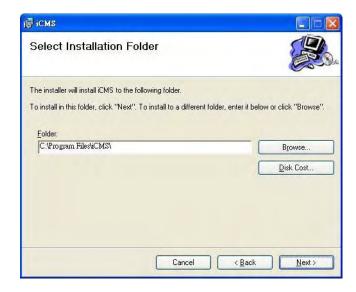
- > Intel Pentium 4 processor or equivalent.
- ➤ Microsoft Windows Vista · Windows XP · Windows 2003 Server.
- ➤ 512MB memory above. (500M requested for group DVR connection and 180M for single DVR)
- ≥ 20MB HD space. Recording and image capturing require extra space for storage.

Installation:

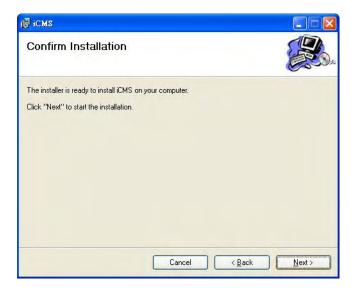
- 1. Connect to the manufacturer's website and download the CMS software.
- 2. Decompress and execute "SETUP.EXE".
- 3. Select "NEXT"

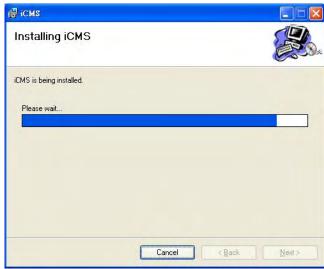


4. Select "BROWSE" to change installation path if needed. To check available space on hard disk, please select "DISK COST" then please select "NEXT" to the next step.

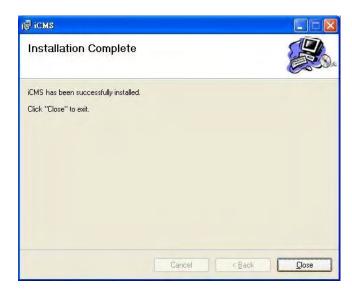


5."CONFIRM INSTALLATION" window shows. Select "EXT" then the installation starts.





6.Select "CLOSE" To finish installation when the "INSTALLATION COMPLETE" window shows.

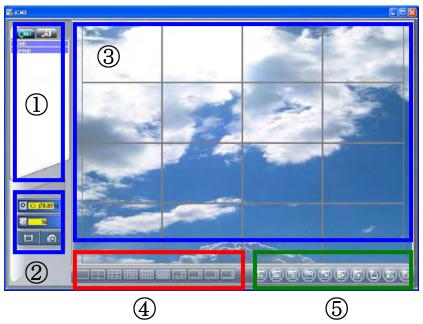


9-2 CMS LOGIN AND ENVIRONMENT

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



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



① DVRS, GROUPS & EVENTS	Information about DVRs, groups and events. See "9-3 DVRS, G ROUPS & EVENTS" for detail.
② PC INFORMATION AND CONTROL	Information about local PC's hard disk, volume, recordingetc. See "9-4 LOCAL PC INFORMATION AND CONTROL" for more detail.
③ MAIN DISPLAY	Live image display area. See "9-5 MAIN DISPLAY" for detail.
4 DISPLAY MODES	Display modes supported by CMS.
⑤ OPERATION BAR	A set of 10 operations are provided by CMS. See "9-6 OPERATION BAR" for detail.

9-3 DVRS, GROUPS & EVENTS

Icon	Description
	View list of logged in DVR / Group.
	View Logs

9-3.1 VIEW DVR / GROUP LIST

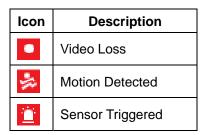
Single left click on "DVR" or "GROUP" will expand/collapse the entire DVRs and groups list.

On the DVR list, double left click on a connected DVR will show its image in the 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 GROUP ADMINISTRATION" for further informatic

Left-clicking on a connected DVR will expand/collapse status of its all





icms

DVR Group iCMS

DVR - 1 218.210.85.91 :80

DVR - 2

DVR - 3

xxx.xxx.xx :80

xxx.xxx.xx :80

Group

Group 1

9-3.2 VIEW EVENT LOGS

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



9-4 LOCAL PC INFORMATION AND CONTROL

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

Icon	Function	Description
O Ca (79.56%)	HDD INFO	Shows the ratio of available space/HDD size of the C:\ drive (where CMS is installed).
10 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 HDD PLAYBACK" for detail.
	SNAPSHOT	Take snapshot to save in local PC storage. To view all the snapshot you've taken, please go to "SNAPSHOT" under the operation bar. See "9-6.5 REMOTE PLAY" for detail.

9-5 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.



9-5.1 AUDIO CONTROL

In live mode, you can turn on/off the audio signal of CH1~CH4:

· Audio signal is On
· Audio signal is Off

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



9-5.2 eMAP DISPLAY

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.





9-5.3 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
Q	ZOOM+ : Zoom-in
Q	ZOOM-: Zoom-out



9-6 OPERATION BAR

10 Operations to be listed as below:



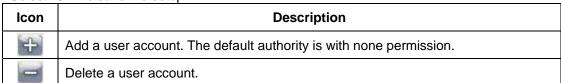
Table 9-6.1 Description of 10 operations:

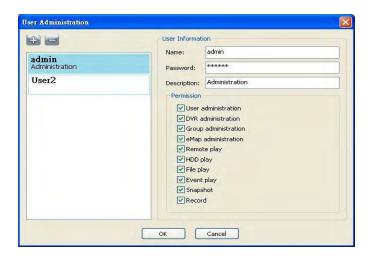
Icon	Description
	User Administration. Please see "9-6.1 USER ADMINISTRATION"
	DVR Administration. Please see "9-6.2 DVR ADMINISTRATION"
	Group Administration. Please see "9-6.3 GROUP ADMINISTRATION"
	eMap Administration. Please see "9-6.4 eMAP ADMINISTRATION".
	Remote Playback. Please see "9-6.5 REMOTE PLAY".
	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"

9-6.1 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.

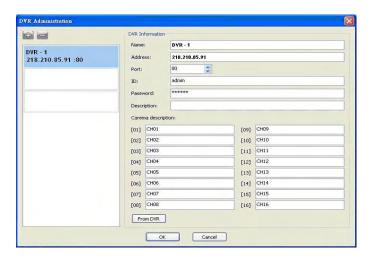
Select "OK" to save the setup.





9-6.2 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.

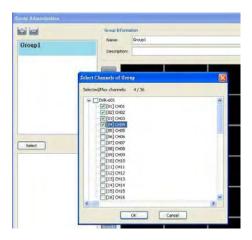


9-6.3 GROUP ADMINISTRATION

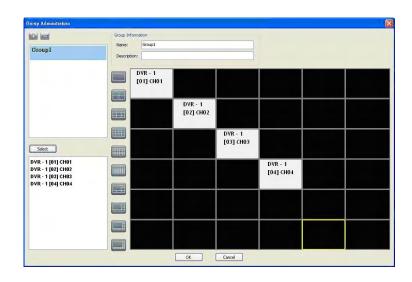
A "GROUP" means a set of video channels from one or many DVRs, which means, user can organize channels from different DVRs to be set in a group. This function allows you to monitor and manager channels from multiple DVRs easily and flexible.

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.



- 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.

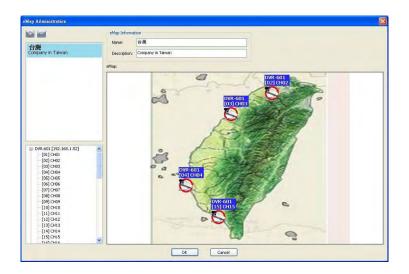


9-6.4 eMap ADMINISTRATION

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:

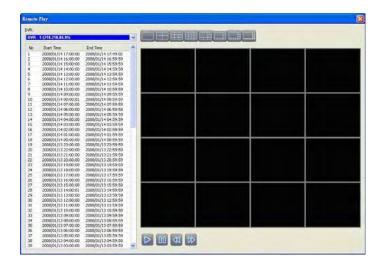
- 1.Click and a path for the picture will be prompted.
- 2. Select a picture, click OK and the picture will show in the right panel.
- 3. Drag channels in the left lower corner onto the picture to any position.
- 4. To delete a channel already on the picture, right click the channel and click "REMOVE".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



9-6.5 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.

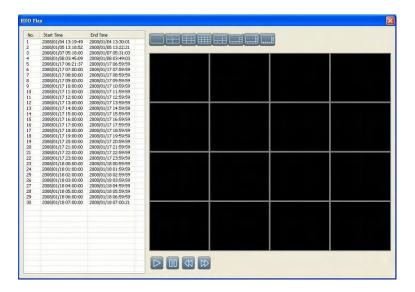




Icon	Description
	Start playing.
	Pause.
8	Fast forward.
CXD	Fast rewind.

9-6.6 HDD PLAYBACK

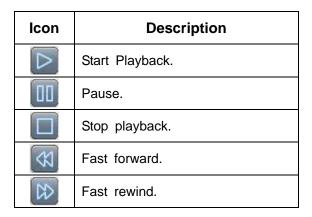
You can directly play the recording data in the HDD that's uninstalled from DVR by CMS. See the picture below, the left part of screen is recording data in list that's separated by hour and the right part is main display. You can change the display modes and play files fast forward or rewind.



9-6.7 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.





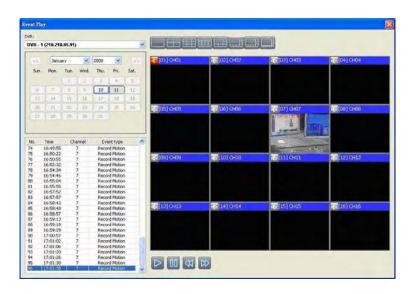
9-6.8 EVENT PLAYBACK

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.



9-6.9 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.



9-6.10 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. Choose the recording time at upper left corner, it will be played on the main display.
- 2. You can choose the display mode.
- 3. Time bar will be shown at right lower corner, please drag the time bar to specify the recording time you'd like to play.



APPENDIX I HARD DISK INSTALLATION

I-1 HARD DISK INSTALLATION

Step 1) Check the screws in the package for the screw hole.



Step 2) Put the HDD on the HDD plate and screw it as indicated.



Step 3) Screw the bottom of the DVR as indicated to fix the HDD.





Step 4) Connect the power and the SATA cables as indicated.



