

Model #: CVDVR900

MPEG-4 Embedded DVR User Manual

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INSTALLATION GUIDELINE

A. Installation Environment

In order to ensure the safety with the DVR product and maximize product performance, please notice the following while/ before you install the product:

- Only use with AV220V voltage supply, please check with the power supply with correct voltage before installation. DO NOT USE WITH ANY OTHER ADAPTER (DO NOT PLUG INTO AC380V HIGH VOLTAGE SUPPLY!)
- ii. Away from a humid place or exposure with rain.
- iii. DVR should be installin in a horizontal position.
- iv. Avoid placing the DVR in a location where electric conductivity is high.
- v. Avoid exposure to direct sunlight for prolinged periods and do not store in areas with extreme temperature conditions.
- vi. For the heat transfer and ventilation purposes, locate the DVR at least 15cm from another object (such as awall) while installing the device.
- vii. Avoid placing the DVR near any chemical product. Accidental contact may harm the device.
- viii. Avoid placing the device in areas that are dusty and unkept. Dust may damage the unit.
- ix. Use correct grounding for the DVR device while operating.

B. Other notices

- i. Do not operate the device with wet hands.
- ii. Keep away from any wet place, fire hazard can occur by short circuit damage by any liquid dropped to device.
- iii. Do not place anything on the top of device;
- iv. Use a clean cloth to clean the device. Do not use chemicals to clean the device.
- v. Live voltage does exist while the device is connected to a power supply, even when the device is not turned on.
- vi. Disconnect the DVR when not in use for an extended period.

This device had been certified with the international safety standard.

PRODUCT FUNCTIONS/ FEATURES

- High speed embedded CPS and real time embedded control operation system are adapted with the product. It provides operation stability, no hang-up error, more reliability and ease for maintainance.
- Operation with front panel and remote control, menu language also available in English/Chinese/Simplified Chinese. Security with double password lock. System management requires authority code in order to provide safety system.
- Uses a hardware MPEG-4 encoder to provide better streaming quality, it also supports D1, 1/2D1, CIF resolution, and has an adjustable frame rate and provides space efficiency with compact video size.
- Video storage using FAT32 format, suitable for 1~4 IDE hard drive connections, there are 3 types of storage methods in use here: individual, compound and mixed;
- Provides multi-channel operation, such as 4 channel video/audio input capture, 2 channel video (monitor and reply) output, with VGA reply output.
- · 4-channels alarm input with programmable setting.
- Time setting to activate recording system with auto switching, system
 re-activate after power shut down. Alert system for any video signal loss or
 disturbance.
- Available with manual, time setting, alert playing, this will make the unit more
 effectively and hard space efficient. The motion detect function is available
 with a setting for 16x12 detect region area, with adjustable senitivity detect
 level.
- Pre-setting record function and extended alert function, in order to ensure alert information capture with user requirement.
- Has fastforward/backward x2 and x4 function and slow motion rate at x1/2, x1/4 and x1/8 as well as pause and frame-by-frame function.
- PAL/NTSC system compatible.
- Individual setting for each capture channel for brightness, contrast, color, motion detect setting.
- Complete daily report for alarm record and operation record. Good for monitor records and analysis;
- RJ-45 network inlet/outlet available for the internet function for ADSL, ISDN, intranet, etc, setting with local IP and hosting address.
- Optimized with Internet Explorer browser for remote viewing.
- RS-485 connection for the platform decoder, available for difference frequency setting and decoder parameter, as well as extendable function for the decode function.
- VGA output provides video quality and progressive scan option.
- Supports Compact Flash card storage and IBM Microdrive disk.
- Upgradeable with latest firmware and backup file system provide reliable storage solution.

FRONT PANEL



Front Panel and key definition:

1. LED Indicator status area

- [1-8]LED Indicators: indicate 8 different channels for recording status, (for the 4-channel model: only works for LED[1-4], others will be off). LEDs that are on indicate recording in progress, and LEDs that are off indicate that the system is in standby.
- [1-4]HD: indicate 4 different hard disk working status. LEDs that are on indicate hard disk work in progress, and LED off indicate that the hard disk is in standby.
- LINK/ACT: Lights on when the internet is connected and blinks for data transferring.
- 100M/ 10M: indicates internet speed: LED will be on when transmitting 100M bps, LEDs will be off for 10M bps.
- VGA: indicates VGA connection status: LED will be on when the VGA is connected, LED off when disconnected.

2. Menu Operation

- Up, Down directional keys.
- Left, Right directional keys.
- [ENTER]Key: Confirm OR Time display while in monitor mode.

3. Playback function

Key	. Definition
[Playback]	. Playback function activate
[Slow]	.Playback with slow motion with speed at 1/2x, 1/4x, 1/8x,
	resume at normal speed with [Playback]pressed
[Pause /Play]	. Pause video while press once, frame-to-frame at re-press.
[Playback]	Key for resume to normal
[Fast Forward]	2x, 4x Speed available, Playback Key for resume at reg. play
[Fast Backward]	2x, 4x Speed available, Playback Key for resume at reg. play
[Recording]	Available for 4 channels recording, single online monitor
	system can play with manual recording.
[Stop]	. Stop manual recording

4. Platform Control Key

lattorm Control Key	
Key	. Definition
[0-9]	. Numeric buttons, for number key-in or video swapping.
	For non-menu screen, 1, 2, 3 and 4 represent for the video
	channel 1, 2, 3 and 4 respectively
[Zoom In +], [Zoom Out -]	. Zooming adjustment
[Brightness +], [Brightness -]	. Brightness adjustment
[Focus +], [Focus -]	lmage Sharpness adjustment
[Auto]	Auto Mode activate
[Manual]	Manual Adjustment Platform
[Default]	. Use with Default configuration
[Window Winer/Lighting]	Control with window rain winer and lighting

FRONT PANEL ...continued

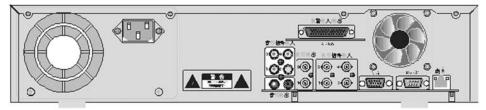
5. Other options

Office Ophoris	
Key	Definition
[Power ON /Power Off]	System turn on and off(Stand-by and start)
[Login/Locked] Key	Login to enter to operate mode with require password and
	lock current setting activation
[Status]	Checking with record information store inside of hard drive.
[Display Swap]	Swapping between multi-channel and single channel
	monitor system
[Channel Config]	
	Display with the setting of brightness, colour, contrast,
[]	motion detect sensitivity, adjust with[+], [-]
[Return]	Return back to operating screen from setup menu
	While CF card inserted, this button can activate for the
[0. 00.0]	CF function, for more details please refer with your CF Card
	operation instruction manual
[Language]	English, Simplified Chinese, Tradition Chinese selectable
[Network]	
	For 4 channels monitor system. Can activate 4 manual
[Roosia]	records or for single channels the monitor system can activate
	1 manual record
[Stop]	
	Setting with system configuration and parameters
	Time select while in Playback mode
	For single channel system, control menu activation while
[]	this key being pressed. While left/right, up/down key pressed,
	adjusted with station recorder left/right, up/down direction
	movement, press [ENTER] return to original position.
[Zoom In +], [Zoom Out -]	
[Brightness +], [Brightness -]	
[Focus +], [Focus -]	
[Auto]	
[Manual]	
[Default]	
	Control with window rain wiper and lighting
[9,9]	Control menu quit with re-press[F2]
[F3]	No specific function set for this key
	[can be reserve for other function]
[F4]	While in monitor system, swap with BNC / VGA output

6. Connection

CF Card: Compact Flash Card slot for upgrade and backup function; IR: Infra red receiver

BACK PANEL ...continued



Back Panel and connection outlet:

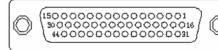
- 1 Ventilation fan
- 2 AC220V power in
- 3 Power switch
- 4 Alert signal in/out/ RS-485: 4 channels input/ output
- 5 Audio input: provide 4 channels audio input
- 6 Audio output: 2 channels for audio out, left side for replay output, right side for the surveillance output
- 7 Video output: 2 channels for video signal output, channel 1 for surveillance output, channel 2 for mixed video output
- 8 Video input: Channel 1~4 for video signal input
- 9 VGA: output with external computer monitor, only for Playback screen or on time recording screen, not for surveillance review

Method: Press[F2]in remote control after key in password, then switch the screen from display output with monitor screen

FUNCTION

- 10 RS-232: Standard RS-232 connection
- 11 Ventilation fan for main unit

MPEG4 Alarm connector pin definition:



FUNCTION

Pin definition:

15

3NC

LIIA	DEF FUNCTION	FIN DEF FUNCTION
1	INOChannel 1 Alarm input	164COMChannel 2 Alarm output
2	IN1Channel 2 Alarm input	174NO
3	IN2 Channel 3 Alarm input	184NC
4	IN3 Channel 4 Alarm input	19COM
5	IN4 NC	20NO
6	IN5 NC	21NCPower fault report output
7	IN6 NC	22COM
8	IN7 NC	23NO
9	OUTOChannel 3 Alarm output	24NCFault report output
10	OUT1Channel 4 Alarm output	25485A485A
11	OUT2	26485B485B
12	OUT3	27-38GND
13	3COM Channel 1 Alarm output	39-44+12V+12V
14	3NO	

2, 4 channels alert layout definition

- 1-2 channels for open socket switch output, no need for additional alarm driver.
- 3-4 channels for power levels output (OUT for low power out), require additional alarm drive add in here.

REMOTE CONTROL

Remote Control Key Definition / Function:

1. **Numeric Key**

[0-9] Keys: Numeric, for number key-in or video swapping. For non-menu screen, 1, 2, 3 and 4 represent for the video channel 1, 2, 3 and 4 respectively.

[+], [-] Keys: Use for volume control, or while checking can play as next/pervious page, even changing some parameters for configuration.

2. Menu Operation

▲ ▼: Up, Down directional keys;

◆ ▶: Left, Right directional keys;

[ENTER] Key: Confirm OR Time display while in monitor mode;

3. **Platform Control Key**

Key	.Definition
[Zoom In +], [Zoom Out -]	.Zooming adjustment
[Brightness +], [Brightness -]	.Brightness adjustment
[Focus +], [Focus -]	.lmage Sharpness adjustment
[Auto]	.Auto Mode activate
[Manual]	.Manual Adjustment Platform
[Default]	.Use with Default configuration
[Window Wiper/Lighting]	Control with window rain wiper
	and lighting

4.

Playback function Key	Definition
[Playback]	
	.Playback with slow motion with speed
	at 1/2X, 1/4X, 1/8X, resume at normal
	speed with [Playback] pressed
[Pause /Play]	
	frame-to-frame at re-press.
	[Playback] Key for resume to normal
[Fast Forward]	.X2, X4 Speed available, [Playback] Key
	for resume at normal play.
[Fast Backward]	.X2, X4 Speed available, [Playback] Key
	for resume at normal play.



REMOTE CONTROL

Remote Control Key Definition / Function:

5.	Other options		
	Key		
	[Power ON /Power Off]		
		(Stand-by and start)	
	[Login /Locked]Key	Login to enter to operate mode with	Ana contract of the
		require password and lock current	
		setting activate	
	[Status]	. Checking with record information store	0023
		inside of hard drive	turs.
	[Display Swap]	.Swapping between multi-channel and	(a) (b) (b)
	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	single channel monitor system	3799
	[Channel Config]	.Channel configuration	
		.Display with the setting of brightness,	
	[,	colour, contrast, motion detect	
		sensitivity, adjust with [+], [-]	
	[Return]	Return back to operating screen from	AGA
	[Note: In the second se	setup menu	
	[CF Card]	While CF card inserted, this button can	
	[or oura]	activate for the CF function, details	
		please refer with CF Card operation	
		instruction	2 1- 1 41
	[Language]	.English, Simplified Chinese, Tradition	at the bole of
	[Language]	Chinese selectable	
	[Network]		9- 1 10
		For 4 channels monitor system, can	
	[kecolu]	activate 4 manual record, or for single	
		channels monitor system, can activate	
		1 manual record	
	[Stop]		
	[Setting]		
	[Sering]	and parameters	
	[[]]		
	[F1]	For single channel system, control menu	
	[Г2]		
		activate while this key being pressed	into al viith atation
		While left/right, up/down key pressed, adjurecorder left/right, up/down direction mov	
			emeni,
	[7 -] [7 0]	press[ENTER]return to original position	
	[Zoom In +], [Zoom Out -]		
	[Brightness +], [Brightness -]		
	[Focus +], [Focus -]		
	[Auto]		
	[Manual]	Manual Adjustment Platform	
	[Default]		_
	[window wiper/Lighting]	. Control with window rain wiper and lighting	g
	[[2]	Control menu quit with re-press [F2]	
		. No specific function set for this key	

[can be reserve for other function]

[F4]While in monitor system, swap with BNC / VGA output

SYSTEM START-UP/SHUT DOWN

1. System Start up

Plug in your AC power, turn on the main unit, the red light will turn on while the system boots up.

The system will be in standby mode. Press the [ON/OFF] button in front panel or remote control, the red light will turn off, then the monitor will be activated to show as 4-channel windows status. There will be channel numbers shown to indicate each input signal. Also, the top of screen will show the system time, number of hard disk and CF card status (if applicable) shown in the center of the screen (there would be an alert warning for no hard-disk installed), all of the information will be shown on the screen for 5~6 seconds. There will be a count down from 100 to 0 seconds (shown in red color font). The system will be locked up after the count down reaches 0 seconds. Notice: If the device is being set for timer record function, there is no need for standby status after the system turns on, the system will go to multi-channel screen.

2. System Login

While the system is in lock-in status, press the [Login/Logoff] button in the front panel or remote control, then the screen will have pop-up window appear stating "Unit ID: *****, Unit ID: 000". Select the desired unit ID. "Password required: " then key in your login password to enter into the system (The DVR will accept User password or Administrator password).

- After the user password is keyed in correctly, the message "USER PASSWORD CORRECT" will be shown. Then the user can enter into restricted functional/feature level functions with the device. (default password is: 00000000)
- After the Administrator password is keyed in correctly a message "ADMIN PASSWORD CORRECT" will appear, then the administrator can enter into all functional/feature levels with the device. (default password is: 88888888)

Remark: There will be a difference between administrator and user level authorizations:

- 1. User can only playback all existing files, however, they can not stop the recording, or access record setup. While the administrator can access all setup features.
- After the password key in correctly, the count down timing (shown in top right corner) will change from red to green color, this indicates that the user can access different operations. There will be a 100 seconds operation time allowance after each key-in button is pressed before system locked. The user will be required to reenter their password to return to normal operation level once the "LOCK" indicator shown in top right corner;
- The user must key-in unit ID and password to enter into the operation system while in LOCK status.

3. System Logoff

Press [Login/Logoff] button in the front panel or remote control after the record stop, the system will go into standby mode.

Remark: Please make sure the system status is in standby mode before powering off. Please do not power off the machine while it is in recording or playback system setting.

OPERATION INSTRUCTION

A. Menu Setup

While system is powered up, select [General Setting] to alter the system setup. The setup menu can be seen below, highlight the item for selection and then press [Enter] to confirm. (while system recording, not allow to change any setting for current channel)

GENERAL SETTINGS

Record Settings Timer Record Motion Detection Alarm Record Channels Housings Network Language Fxit

A-1 General Parameter Setting:

Highlight and select "General Settings", then press [Enter] for this selection, the sub-menu will shown (as below), then select the desired area.

GENERAL SETTINGS Date / Time: 2003-05-08-23:59:00 Saturday Unit ID: Location: HDD Overwrite: Yes System: PAL NTSC Admin_pwd_modify Operate_pwd_modify

HDD Format Restore Default Setting Return

Date/Time: Highlight and press [Enter] to confirm for change for date and time, range will apply following:

- YEAR: from 2000 to 2099, only change the last 2 digits (eg. "03" for Year 2003);
- MONTH: Range 01 ~12;
- DAY: Range 01~31;
- HOUR: Range 00~23;
- MINUTE: Range 00~59;
- SECOND: Range 00~59;

After the [Return] key is pressed, the settings will be saved while power is on. However, the settings will not be saved when the system restarts.

Unit ID: Changing the ID from 000 to 999, this ID used for the login identification.

Location: Key in the address for the location of the unit.

- **HDD Overwrite**: Select one of two options: *ON* and *OFF*. When *ON* is selected, this will allow recording continuously even if the hard disk space fulls up. The video will be recording into FIFO (First-In-First-Out) format. When OFF is selected, the recording function will stop once the HDD has filled up.
- **System**: Select one of two options: "PAL" and "NTSC", then press [Enter] to confirm. NTSC is the standard for North American video systems while PAL is standard for European recording systems.
- **Admin_pwd_modify**: Allows the you to change the administrator password, press[Enter] to enter this function. It will require you to key-in the new password twice to confirm the new password (this option only available with the administrator authorization level).
- **Operate_pwd_modify**: Allows the you to change the operator password, press[Enter] to enter this function. Require the user to key-in the new password twice to confirm.
- **HDD Format:** This will allow you to format the hard disk drive while non-recording status, while this option being selected, select with [START] and press [Enter] to confirm this function.
- **Restore Default Setting:** Restore all the settings to the factory level settings. A confirmation option will appear to reconfirm system restore. A sample chart is shown on the next page.

Return: Go back to previous menu.

OPERATION INSTRUCTION

Example: below is the record default setting:

Record Settings								
Channel	Quality	Definition	Frame	Mode				
1	14	CIF	25	CBR				
2	02	CIF	25	CBR				
3	03	CIF	25	CBR				
4	04	CIF	25	CBR				
HDD Store Mode								
Centralize Return	e Indivi	dual Com	pound					

A-2 Record Parameter Setup:

While system operated, select "Record Setting" to changing some setting in here:

	_
GENERAL SETTINGS	
Record Settings	
Timer Record	
Motion Detection	
Alarm Record	
Channels	
Housings	
Network	
Language	
Exit	

Record Settings									
Channel	Quality	Definition	Frame	Mode					
1	14	CIF	25	VBR					
2	02	D1	12	CBR					
3	03	HD1	6	VBR					
4	04	D1	3	VBR					
HDD Store Mode									
Centralize	Individ	dual Com	pound						
Return									
l									

Channel (4 Channels): Move the cursor to enable channel recording function. If there is an "X" to the left of a channel, recording is not allowed. Pressing [Enter] will enable the channel.

HDD Format: This will allow you to format the hard disk drive while in non-recording status. Select [START] and press[Enter] to confirm this function.

Image Quality: From 1 to 8 levels, 1 is the best quality. Use the cursor to select and press [Enter] to confirm this function, with [+] and [-] to move the level.

Definition/Sharpness: From "D1, HD1, CIF" 3 difference levels. Using the cursor to select and press [Enter] to confirm this function:

D1: DVD picture sharpness quality;

HD1: SVCD picture sharpness quality;

CIF: VCD picture sharpness quality;

Frame Rate: While in PAL video system choose from "25, 12, 06, 03, 01, 0.5" frame rate levels. While in NTSC video system, choose from "30, 15, 08, 04, 02, 01" 6 difference frame rate levels. Using the cursor to select and press [Enter] to confirm this function, and with [+]and [-]to move the level.

PAL video system:

D1: Provided with totally 25 frame/ second in 4 channels;

HD1: Provided with totally 50 frame/ second in 4 channels;

CIF: Provided with totally 100 frame/ second in 4 channels;

NTSC video system:

D1: Provided with totally 30 frame/second in 4 channels;

HD1: Provided with totally 60 frame/second in 4 channels;

CIF: Provided with totally 120 frame/ second in 4 channels;

Mode: "VBR, CBR" are the 2 different encoding methods available in here. Using the cursor to select and press [Enter] to confirm this function:

VBR: Variable Bit Rate encoding method;

CBR: Constant (non-variable) Bit Rate encoding method;

Conversion Table for Image Quality and Encoding Rate

						Image Q	uality (Enco	de Rate Kbit	/Second)		
		Sharpnes	s	1	2	3	4	5	6	7	8
		D1	Fixed	2400	2200	2000	1800	1600	1200	1000	800
	CBR	HD1	Fixed	1200	1100	1000	900	800	600	500	400
Method		CIF	Fixed	900	800	700	600	500	400	300	200
重		D1	MAX	2400	2200	2000	1800	1600	1200	1000	800
		וט	MIN	2000	1800	1400	1200	1000	800	600	400
Encode	VBR	HD1	MAX	1200	1100	1000	900	800	600	500	400
Ē	VDR	וטח	MIN	900	800	700	600	500	400	300	200
		CIF	MAX	900	800	700	600	500	400	300	200
		CIF	MIN	600	600	500	400	300	200	200	100

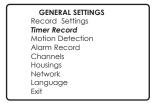
HDD Store Mode: "**Centralize, Individual, Compound**" are 3 different hard disk storing modes available in here. Using the cursor to select and press [Enter] to confirm this function:

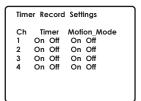
- Centralize: All video signal and sound signals are stored into same one hard disk, and then continuously with the next hard disk after the current one becomes full.
- Individual: Each channel of video signal and sound signals are stored into a different hard disk, for example channel 1 recording into HDD1, and channel 2 recording into HDD2.
- Compound: Channel 1 and 2 video and sound signal only record into HDD1 and HDD2, taking into HDD1 first and then using HDD2 after the HDD1 is full. At the same meaning that, Channel 3 and 4 video signal and sound signal only recording into HDD3 and HDD4, taking into HDD3 first and then using HDD4 after HDD3 full.

Return: Using the cursor to select and press [Enter] to confirm back to main menu.

A-3 Timer Record Setting:

Highlight and select "Timer Record", then press [Enter] for this selection, the sub-menu will shown (as below).





Timer Record: "On, Off" are the 2 different status settings. Use the cursor to select and press [Enter] to confirm this function. While timer selected, there will be 16 different setting tasks for timer setup in each channel (8 different day types, and 2 different period settings available for each type):

Channel 1 Timer Record Settings							
Date	Period 1	Period 2					
Everyday	08:00-12:00	14:00-18:00					
Mon	08:00-12:00	14:00-18:00					
Tue	08:00-12:00	14:00-18:00					
Wed	08:00-12:00	14:00-18:00					
Thurs	08:00-12:00	14:00-18:00					
Fri	08:00-12:00	14:00-18:00					
Sat	08:00-12:00	14:00-18:00					
Peak	08:00-12:00	14:00-18:00					
Return							

- Date: Select either "Everyday", "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat" and "Peak", when "Peak" time selected, the device will not use the stand-by function.
- Period 1 and Period 2: Select start time and end time.

Motion Mode: "On, Off" are the 2 different status settings to enable and disable this function respectively. Using the cursor to select and press [Enter] to confirm this function.

A-4 Motion Detection Setting:

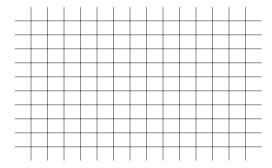
Highlight and select **Motion Detection**, then press [Enter] for this selection, the sub-menu will shown (as below), then select the required area.

GENERAL SETTINGS Record Settings Timer Record
Motion Detection
Alarm Record
Channels
Housings
Network
Language
Exit

Channel	Effective Region	Alarm
1	Settings	On
2	Settings	On
3	Settings	Off
4	Settings	Off
Return		

Effective Region: Use the cursor to select *Settings* and press [Enter] to confirm this function. Then there will be a region setting screen with full of square grid (as picture shown below), press [Setting] to get the detect area as full screen (all the grid squares will turn a light green square as selected) re-press [Setting] to cancel the selected areas (all grid squares will turn back to clear, and there will be purple flashing cursor right in the centre of screen for selection).

- Using the directional key to move purple cursor for selection. When the grid block being selected (press [Enter] to select), the block will turn light green.
- Cancel with re-press [Enter] key in the block.
- When there are objects moving in the selected region, the block will turn yellow and flashing. (This will activate the recording, if there had been pre-set already).



Alarm: "On, Off" 2 different status settings. Using the cursor to select and press [Enter] to confirm this function.

A-5 Alarm Record Setting:

Highlight and select Alarm Record, then press [Enter] for this selection, the sub-menu will shown (as below), then select the required area.

GENERAL SETTINGS Record Settings Timer Record Motion Detection Alarm Record Channels Housings Network Language Exit

Ch 1 2 3 4 Ref	On Off On Off	In_Mode Close Open Open Open	Alarm_Delay: 005s Out_Delay: 005s Keep_Delay: 005s Multi_Ch_Rec: On Multi_Ch_Output: Or

Alarm: "On, Off" are the 2 different status settings available. Use the cursor to select and press [Enter] to confirm this function. While "On" is selected, there will be 16 different task settings for timer setup in each channel (8 different day types, and 2 different period settings available for each type):

Channel 1	Alarm Record	Settings
Date	Period 1	Period 2
Everyday	08:00-12:00	14:00-18:00
Mon	08:00-12:00	14:00-18:00
Tue	08:00-12:00	14:00-18:00
Wed	08:00-12:00	14:00-18:00
Thurs	08:00-12:00	14:00-18:00
Fri	08:00-12:00	14:00-18:00
Sat	08:00-12:00	14:00-18:00
Peak	08:00-12:00	14:00-18:00
Return		

- Date: Select either "Everyday", "Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat" and "Peak". When "Peak" time is selected, the device does not have the stand-by function.
- Period 1 and Period 2: Available to select the start time and end time.

In_Mode: "Open, Close" are the 2 different input modes for alarm signal input. When the alarm system is set to the "Close" option, when open signal starts, the alarm signal is produced. The input mode in here should be set as "Open".

Alarm_Delay: Key in the number key to setup the time delay (range from 0 to 300 seconds) for alarm recording (default setting as 10 seconds).

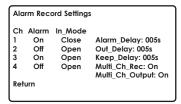
Out_Delay: Key in the number key to setup the time delay (range from 0 to 300 seconds) for alarm output (default setting as 10 seconds).

Keep_Delay: Key in the number key to setup time delay (range from 0 to 300 seconds) for alarm warning signal (default setting as 10 seconds).

For example: If an alarm is produced at 23:30:50 the device should start the recording from time 23:30:40 since the system per-recording time was set as 10 seconds. The system will release the alarm warning signal. Whole recording depends on the alarm time, per-recording alarm time and alarm warning signal to perform recording

Multi_Ch_Rec: "On, Off" are the 2 different status settings available. Use the cursor to select and press [Enter] to confirm this function. While "On" is selected, there will be 4 multiple channels interface display as shown below:

Multi_Ch_Rec: "On, Off" are the 2 different status settings available. Use the cursor to select and press [Enter] to confirm this function. While "On" is selected, there will be 4 multiple channels interface display as shown below:



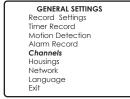
			nnel	Alarm	Rec	ordir	ng se	tting
Aları	m Chai	nnel						
	1	2	3	4	5	6	7	8
1	*	*						
2		*						
3	*		*					
4				*				
5								
6								
7								
8								
	Retu	rn						

- Horizontal Row: Channel "1~8" (for 4 channels device only 4 available)
- Vertical Column: Alarm Channel "1~8" (for 4 channels device only 4 available)
- "*": Press [Enter] to select and cancel this;
- Example: As seen from above, for the row 1, while alarm channel 1 received signal, the channel 1 and 2 start recording, channel 3 and 4 not taking any action.
- Example: For the row 2, while alarm channel 2 received signal, only channel 2 start recording, other channels not taking any action.

Multi_Ch_Output: "On, Off" 2 difference status setting. Using the cursor to select and press [Enter] to confirm this function. While "On" selected, there will be 4 multiple channels interface display as shown above.

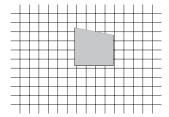
A-6 Channel Setting:

Highlight and select *Channels*, then press [Enter] for this selection, the sub-menu will shown (as below), then select the required area.



Channel S	ettings		
Channel	Title	Cover	Time Insert
1	Warehouse	Yes	Yes
2	Cash	No	No
3	Cash 2	No	No
4	Main Desk	No	No
Return			

- Title: Channel name. Use the cursor to select and press [Enter] to key-in the name and re-press [Enter] to confirm this function.
- Cover: "On, Off" 2 difference status setting. Using the cursor to select and press [Enter] to confirm this function. While "On" selected, there will be cover display setting as shown below:



 Use the directional key to move small yellow block selection. When 4 points of yellow block are produced there will be a region wet up for the coverage setting area.

Time insert: "On, Off" are the 2 different status settings. Use the cursor to select and press [Enter] to confirm this function. While "On" selected, a system clock will be shown while recording.

A-7 Housing Setting:

Highlight and select *Housings*, then press [Enter] for the selection, the sub-menu will shown (as below), then select the required area.

GENERAL SETTINGS
Record Settings
Timer Record
Motion Detection
Alarm Record
Channels
Housings
Network
Language
Exit

Housing S	ettings		
Channel 1	Protocol pelco-d	BaudRate 1200	No. 01
2	pelco-p	2400	10
3	enkel	4800	25
4	ccr-20g	9600	63
Return			

Protocol: Using the cursor to select and press [Enter]to confirm difference protocol (pelco-d/p/02-15 etc.);

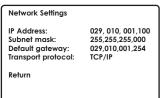
BaudRate: Using the cursor to select and press [Enter] select difference rate at 1200/2400/4800/9600;

No: Using the cursor to select and press [Enter] select difference housing number at $(01\sim63)$.

A-8 Network Setting:

Highlight and select *Network*, then press [Enter] for this selection, the sub-menu will be shown (as below), then select the required area.

GENERAL SETTINGS
Record Settlings
Timer Record
Motion Detection
Alarm Record
Channels
Housings
Network
Language
Exit



- IP Address: Use the cursor to select and press [Enter] to enter the IP address.
- **Subnet mask:** Use the cursor to select and press [Enter] to enter the subnet mask at current location.
- **Default Gateway:** Use the cursor to select and press [Enter] select default gateway according to current IP address.
- Transport protocol: Use the cursor to select and press [Enter] select.

A-9 Language Setting:

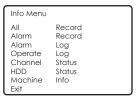
Make sure that English is the default setting.

A-10 Exit:

Highlight and select Exit, then press [Enter] to confirm for save the change of setting then return back to main menu.

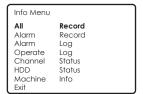
B. Info Menu

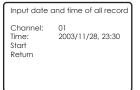
While system is in use, select [Info Menu] to check the menu content. The info menu can be seen as shown below, highlight the item for selection and then press [Enter] to confirm.



B-1 All Record:

Highlight and select All Record, then press [Enter] for this selection, the sub-menu will shown (as below), then select the required channel and date, press "Start" to see the record at specific requirement.





After pressing enter, there will be a sub-menu shown (as below), and the calendar will display dates 1 to 31 as per selected month, move the cursor to select different dates in order to check the record and press [Enter] to view. A yellow font represents recording existance for this.

If no recording exists for certain date, "No exist record" will be displayed. Using page up ("UP") and down ('DO") ("+/-" key) for those more than 1 page recording list.

				Recording	
1	02	03	04	05	06
	07	80	09	10	11
2	13	14	15	16	17
	18	19	20	21	22
3	24	25	26	27	28
	29	30	31	UP	DO
CASH 1	08:30-0	9:00	R	CIF	25
CASH 2	09:30-1	0:00	M	CIF	25
RONT	11:30-1	2:00	Α	CIF	25
CASH 1	17:00-1	8:00	R	CIF	25

01	02	03	04	05	06	
12	07 13	08 14	09 15	10 16	11 17	
	18	19	20	21	22	
23	24 29	25 30	26 31	27 UP	28 DO	
NO E	XIST REG	CORD				

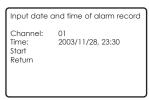
- Title: Channel name.
- Recording Time: Period for the recording time, the length for each at 60 minutes.
- Recording method: "R" for timer record, "M" for manual record, "A" for alarm record.
- **Sharpness**: D1, HD1 and CIF to indicate the level of the recording information.
- Frame Rate: While in PAL video system, "25, 12, 06, 03, 01, 0.5" frame rate levels will available. While in NTSC video system, "30, 15, 08, 04, 02, 01" frame rate levels will be available.

Press [Enter] to see the recording video/audio signal, press [F1] for time select playback, and press [SLOW] for slow motion playback at a different speed. Press [FF] for fast forward playback and [FB] for fast backward playback, press [PAUSE] key to pause the video. [RETURN] to exit the playback window and back to main menu.

B-2 Alarm Record:

Highlight and select Alarm Record, then press [Enter] for this selection, the sub-menu will be displayed (as below. Then select the required channel and date, press "Start" to see the record at a specific requirement.

Info Menu	
All Alarm Alarm Operate Channel HDD	Record Record Log Log Status Status
Machine Exit	Info



After pressing *Start* there will be a sub-menu shown (as below), and the calendar will display as well from date 1 to 31 at the selected month. Move the cursor to select different dates to check the record and press [Enter] to see. The dates shown in a yellow font are dates where there has been an alarm record.

When no recording exists for a certain date, "No exist record" will be displayed. Using page up ("UP") and down ('DO") ("+/-" key) for dates when more than 1 page recording list is available.

Press [Enter] to see the recording video/audio signal. Press [F1] for time select playback, press [SLOW] for slow motion playback at different speeds. Press [FF] for fast forward playback and [FB] for fast backward playback, with [PAUSE] key to make the frame pause. Press [RETURN] to exit the playback window and back to main menu.

```
Channel 1 2003/11/28 Recording Info
01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30 31 UP DO
CASH 1
         08:30-09:00
CASH 2
         09:30-10:00
                       M CIF
                                  25
FRONT
         11:30-12:00
                       A CIF
                                 25
         17:00-18:00
                          CIF
CASH 1
                                 25
WAREH
         20:10-21:10
                       R
                          CIF
                                  25
RETURN
```

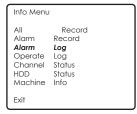
```
Channel 1 2003/11/28 Recording Info
01 02 03 04 05 06 07 08 09 10 11
12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30 31 UP DO

NO EXIST RECORD

RETURN
```

B-3 Alarm Log:

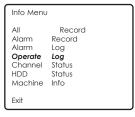
Highlight and select Alarm Log, then press [Enter] for this selection, the sub-menu will be shown (as below), this allows you to see the recent alarm status and report.





B-4 Operate Log:

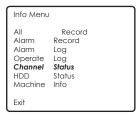
Highlight and select Operate Log, then press [Enter] for this selection, the sub-menu will be shown (as below), this allow to show the recent operate status and report.

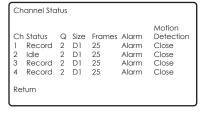




B-5 Channel Status:

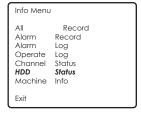
Highlight and select *Channel Status*, then press [Enter] for this selection, the sub-menu will be shown (as below), this allows to show the 4 channel's status, including image quality, sharpness, frame rate.





B-6 HDD Status:

Highlight and select HDD Status, then press [Enter] for this selection, the sub-menu will be shown (as below), this allow you to view the hard disk status for 4 channels, including total hard disk space and available space.



HDD S	tatus		
HDD 1 2 3 4	Status Work None Work Record	Capacity 040GB 000GB 000GB 000GB	Free_Space 012,000MB 000,000MB 000,000MB 000,000MB
Return	ı		

B-7 Machine Info:

Highlight and select Machine Info, then press [Enter] for this selection, the sub-menu will be shown (as below), this allow to show all the machine ID number and software version.





B-8 Exit:

Highlight and select *Exit*, then press [Enter] to confirm for save the change of setting then return back to main menu.

COMPACT FLASH CARD UPGRADE AND OPERATION INSTRUCTION

C-1 Compact Flash Card Upgrade:

- 1. Using a PC to make sure your Compact Flash card formated into FAT32 format. (if not already in the FAT32 format).
- 2. Insert the Compact Flash card into the DVR CF Slot while the DVR is turned off.
- 3. Press [ON/OFF] button without release to switch on the power;
- 4. Within 2~3 seconds the LED light (SYS and POWER) should be flashing and that means that the upgrading is in progress.
- Upgrading will take approx. 1 minute and both LEDs will turn off once upgrading has completed.
- 6. Turn off the device and then remove the Compact Flash card from the slot.
- 7. Restart the device and the new software should be installed.

C-2 Compact Flash Card Backup:

In order to copy the data from hard disk into the Compact Flash card, please follow the following procedures:

- 1. Insert the Compact Flash card into CF Slot before the DVR's power is on.
- 2. Power on the device and stop all recording activity.
- 3. Press the [CF card] button in remote control or front panel, this will allow the copying of all required information and data into Compact Flash card.
- 4. Re-Press the [CF card] button on the remote control or front panel to stop copying.

C-3 Playback Compact Flash Card Content:

In order to playback the data from the Compact Flash card, press [CF card] to enter the Compact Flash card menu and use the cursor to select operation:

C-3-1 Compact Flash card management:

Highlight and select *CF Manage*, then press [Enter] for this selection, the sub-menu will be shown (as seen below), this allows you to view all the information of the current *CF* card.



CF Card Management

No Record

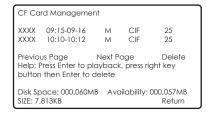
Previous Page Next Page Delete
Help: Press Enter to playback, press right key button
then Enter to delete

Disk Space: 000,060MB Availability: 000,057MB

Return

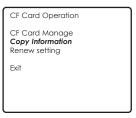
- 1. No Record will be shown if there is no data in the Compact Flash Card.
- There will be a record list to viewed for data from the Compact Flash Card (as shown below).
- 3. Pressing [Enter] button for selected record data to playback, and press the [ESC] button to stop the playback.





C-3-2 Copy Information:

Highlight and select Copy Information, then press [Enter] for this selection, the sub-menu will be shown (as below):





- 1. For copying 1 device setting into other devices.
- Get all necessary settings in 1 device, and then insert CF card into slot (insert CF card before power on).
- 3. After the device is powered on, select Copy Information and press the [Enter] button.
- 4. When copying is completed, there will be a message reading "Completed".
- 5. For a failed copy operation, the message Failed Copy will be displayed.

C-3-3 Renew setting:

Highlight and select Renew setting, then press [Enter] for this selection, the sub-menu will be shown (as below):



- 1. For copying 1 device setting into other devices.
- 2. When all necessary settings are in already copied into the CF.
- 3. Using this card and insert into device slot (before power on).
- 4. Then after the device power is on, select "Renew Setting" with [Enter] button.
- 5. When the renew is completed, there will be a message saying "Completed".
- 6. Restart the device and all new settings will be restored.

RECORDING AND PLAYBACK INSTRUCTION

D-1 Recording

Manual Recording:

- Use the [Record] button to start recording, will be a red dot on the top right side corner of the monitor which indicates the recording is in progress.
- 2. Press the [Stop] button to stop the recording and the red dot will turn off.

Timer Recording:

Refer to section A-3

Remark: The Channel 1 timer setting has the "Peak" time setting (from number 16 option), the peak setting is not available for other channel. After the "Peak" had been selected, the device will not have any stand-by mode while no setting required.

Alarm Recording:

Refer to section A-4

Remark: When the device is in stand-by mode, there would be a 15~20 second time delay when the alarm recording activates and recording starts.

D-2 Playback

Playback all record:

Refer to section C-1

Playback Alarm record:

Refer to section C-2

Playback the recent record:

Press the [Play] button to playback current channel information;

D-3 Playback with time select

- 1. Use the [F1] button for current playback channel, to select the time for playback
- 2. Use the [Stop] button to stop the playback.

D-4 Stop Playback

1. Use the [Stop] button to stop the playback;

D-5 Slow Playback:

- 1. Use the [Slow] button to slow motion the playback, with speeds at 1/2, 1/4 or 1/8.
- 2. Use the [Play] button to return to normal speed.

D-6 Pause Playback and Frame by Frame playback

- 1. Use the [Pause] button to pause the motion.
- 2. While motion is paused, using [Pause] again to play frame by frame playback.
- 3. Press the [Play] button to return to normal speed.

D-7 Fast Forward

- 1. Press the [FF] button to perform fast forward playback, with speeds at X2 or X4.
- 2. Press the [Play] button to return to normal speed.

D-8 Fast Backward

- 1. Press the [FB] button to perform fast backward playback, with speed at X2 or X4.
- 2. Press the [Play] button to return to normal speed.

ADJUSTMENT FOR PICTURE PARAMETER AND SOUND LEVEL

E-1 Parameter adjustment

- 1. Use the [Adjust] button to adjust brightness, color, contrast and the motion detect sensitivity level.
- 2. Use the [+] or [-] button for adjustment up and down.
- 3. Returns to menu after 5 seconds idle time without any adjustment.

TECHNICAL SPECIFICATION DATA

E-1 Parameter adjustment

- 1. Use the [Adjust] button to adjust brightness, color, contrast and the motion detect sensitivity level.
- 2. Use the [+] or [-] button for adjus

		T					
	Ul Language	English/ Simplified Chinese/ Traditional Chinese					
System —	User Interface	Icon operation interface (OSD menu)					
-	Security	User level passw ord, administer level passw ord					
	Video Input	4 independent input w ith 1.0Vp-p, 75Ù BNC					
-	Video Output	1 PAL/NTSC output with 1.0Vp-p, 75Ù BNC, composite video					
	video Odipui	1 VGA output					
_	Video Display	1 channel and 4 channels with difference display mode					
Video —	Video Standard	PAL: 25 frames per second CCIR625 lines 50 Hz					
	Video Staridard	NTSC: 30 frames per second CCIR525 lines 60 Hz					
_	System Resource	Real time recording with 1 channel playback and 4 channels monitoring					
-	Oysterri (csource	Online real time monitor					
	Audio Input	4 channels independent input, L, R Channels 600Ù RCA					
_	Audio Output	1 channel from monitor mode, 1 channel from playback mode 600Ù RCA					
	Basic output	1.0—2.2V					
Audio —	S/N	?-30dB					
_	Recording Format	Video and sound at same time					
_	Compression PCM						
	Encoding	MPEG-4 Variable encode rate \ Fixed encode rate					
_	Image Format	CIF (352×288 pixels) 1/2D1 (704×288 pixels) D1 (704×576 pixels)					
_	Video Standard	ISO14496					
_	Audio Standard	PCM					
_	Video Freg.	12.5K-112.5Kbyte/s 25K-150Kbyte/s 50K-300Kbyte/s					
_	Audio Freq.	8Kbyte/s					
Digital	Audio Size Rate	28.8Mbyte/hour					
Processing	Video Size Rate	45M-405Mbyte/hour 90M-540Mbyte/hour 180M-1080Mbyte/hour					
and Storing	Storage	4 IDE hard disk, support 200G or larger hard disk size					
l _	Image Quality	8 Adjustable levels					
l _	Max Frame Rate	25 frames/ sec/ channel 12.5 frames/ sec/ channel 6.25 frames/ sec/ channel					
	Resolution	Playback 352×288 pixels , Playback 704×288 pixels , Playback 704×576 pixels ,					
		Real time 704×576 pixels , Real time 704×576 pixels , Real time 704×576 pixels ,					
_		VGA output 720×576 pixels VGA output 720×576 pixels VGA output 720×576 pixels					
	Data capture	Bi-directional					
l –	Motion Detect	Independent setting with each channel, with 192 detect region for each channel and adjustable motion sensitivity					
Alarm —	Input	4 independent input channels					
_	Output	4 independent alarm output (2 voltage output, 2 open sw itch w ith output at 12VDC, 500MA)					
	Alarm mode	Open / Short					
_	Serial Port Serial Port	RS485, extendable with external modem					
_		RS232, common serial port					
Com port —	Netw ork port	RJ-45 10M/100M boardband port					
	Internet Protocol	Support TCP/IP, UDP/IP					
_	Transfer mode	Dial-up, ADSL, ISDN, internet, intranet					
	Brow er	IE brow er					

TECHNICAL SPECIFICATION DATA

Others	Pow er	AC 220V±20%, 50Hz±2%
	Consumption	15W (excluding with hard disk)
	Working Temperature	0~50
	Working Humidity	=80%
	Outer Dimension	2U Standard device box 440 (W) ×90 (H) ×420 (D) mm
	Weight	5.5KG (Excluding hard disk)
	Clock	Build-in system clock and calendar

APPENDIX

I-1 IDE requirement:

- 1. There are 2 IDE ports in the main board: 1 is master and 1 is slave.
- 2. J4 IDE (the one close with power port) as master IDE port.
- 3. J10 IDE as slave IDE port.
- 4. Master hard disk must connect first before slave hard disk operate.
- Also while 2 hard disks connect with IDE, they must be set with different jumpers to make this functional.

I-2 Playback DVR Hard disk with PC:

The DVR file information requires the conversion program (STMTOAVI.EXE which comes with the product) to make it as PC compatible and readable. It simply convert those *.stm file into *.avi file, which can play with media player from PC.

Here are some steps for STMTOAVI software instruction:

- 1. Click the STMTOAVI program to start.
- 2. Open file with select those *.stm file.
- 3. Start the conversion.
- 4. Provided with the output file name and output path.
- After conversion, there will be a new file with *.avi and must used with DIVX playback software to run the avi file (DIVX version prefer with 5.03 or better).

NOTES	
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