

User Manual

Digital Video Recorder

Visiondigi (Shanghai) Technology Co., Ltd.

Welcome

Thank you for purchasing our DVR!

This operating manual is designed to be a reference tool for the installation and operation of your system.

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Visiondigi (Shanghai) Technology Co.,Ltd. 2009-2-3

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1 Features

1.1 Interface

- Support TCP/IP protocol, embedded operation system support IE browser
- H.264 compression algorithm, flexible for network transmission
- 1/2/4/8/16 channels video input, 1 channel BNC video output and 1 channel
 VGA video output
- RS-485 interface support PTZ and comparable for all protocols.
- Embedded Web Server for remote control
- RS232 interface support keyboard control, series port connection and upgrade, matrix control, etc.
- Multi-level user management

1.2 Compression

- H.264 video compression, 25fps CIF, variable bit rate and frame rate. Both video quality and compression rate configurable
- Support 1 channel / 2 channels / 4 channels / 8 channels / 16 channels video & signal, real-time compression for each channel, synchronized video and audio
- ◆ Resolution D1 (704*576)、CIF (352*288)、QCIF (176*144) video resolution
- OSD setup date and time
- Support multi masking zones

1.3 Storage

- Support 1TB HDD (1TB = 1000GB), 1 / 2 / 4 SATA interface support varies of HDD volume combination
- Backup from USB interface (USB Disk, USD HDD, USB CD/DVD Burner. etc)
- Easy backup method: network download to remote client
- Non-working HDD hibernation, reduce the working temperature and power consumption
- Looping record
- Special video file format, prevent malice tampering and overwritten

1.4 Network

- ◆ 10BaseT/100BaseTX, RJ45
- Web setting, playback and review, DVR status check, alarm and video storage.
- Network PTZ control and setting the camera's parameter: iris, zoom, etc.
- Remote alarm and system log enquiry.
- Record file enquiry and real-time playback mode
- ◆ FTP remote access and upgrade
- Multi-level user management and administrator authorization
- ◆ Networking method: PSTN、ISDN、ADSL、DDNS、LAN、WEB, etc.
- Network real-time multi channel playback

1.5 Video Playback

- Real-time recording, synchronized video search, reverse playback, review, enquiry and download
- Multiple recording mode: manual, normal, alarm trigger, motion detection, and pre -recording
- Live video search and record video search
- Playback mode: slow play, fast play, backward play and frame play

- On-display accurate time when playback
- In full-screen playback mode, digital zoom

1.6 Display

- Support PAL / NTSC
- High definition, clear video live display
- On-display video channel status information: recording, motion detection, video loss, video freeze
- Video split and channel looping display
- Video adjustment: hue, contrast, saturation, brightness
- On-display character overlay: camera name and location, time and date
- Analog video output and VGA output, support monitor and TV display
- On-display bit rate and recording occupied hard disk storage (MB/h).
- System log enquiry

1.7 Audio

- 1 / 2 / 4 / 8 channels audio input, 1 channel audio output
- Support group play and single play
- Synchronized video & audio input
- Remote intercom while live review
- Synchronized video & audio recording for every channel
- Synchronized video & audio playback

1.8 Alarm

- ◆ 4 / 8 / 16 channels alarm input, 2 groups alarm output
- Support IR sensor, smoke detector and other alarm devices

- Alarm linkage mode, alarm trigger start to recording and invoke flash light, bell or other alarm devices
- Pre-recording mode: pre-recording before alarm trigger started
- Motion detection and relay
- Multi channel alarm reply output, easy to implement all the alarm applications
- Protection Circuit on alarm input and output

1.9 Smart Operation

- Mouse drag and click
- Remote control operation
- Fast & convenience shortcut operation: copy & paste for same settings
- Video partial zoom

2 Overview

2.1 Working Environment

2.1.1 Environment

- Power: 110V ~ 220V AC, UPS or voltage stabilizer for better power input
- Cables: Cat 5 network cable, AV cable, audio cable, 485 control cable
- Temperature: 0°C—55°C, too heat or freeze will cause the malfunction of DVR, strictly prohibit to install the DVR above the heat source
- Humidity: 10%--90%, keep the DVR away from rain or wet place, installation must stay away from water source
- Ventilation: install the DVR in an airy place, keep away from dusty
- Installation: horizon installation or cabinet installation, protective casing needed when outdoor installation

2.1.2 Software

• OS: embedded Linux system

 Device firmware: Universal version VR9508.2.00.P01 (Please check Visiondigi (Shanghai) Technology Co.,Ltd. website for latest version)

2.1.3 Network

◆ Protocols: TCP/IP、HTTP、DNS、DHCP、ARP、RARP.

2.2 Front Panel

2.2.1 VR9300 Front Panel



VR9300 Front Panel

S/N	Name	lcon	Function
Power 1 indicator Ligh		Power	Power indicator light
	Power indicator Light	Networ	Network indicator light
	indicator Light	Status	When push any key, status indicator light will
2	Remote control signal receiver	IR	Receive remote control signal
3	USB Port	USB	Only support USB mouse



VR9300 Front Panel

S/N	Name	lcon	Function
	Sub Manu	Cub Mana	Right-click sub menu
	Sub Menu	Sub Menu	Numeral Letter 7 pqrs
	DT7	DT7	Assistant function, PTZ control
2	ΓIΖ	F I Z	Numeral Letter 8 tuv
	Input	¢	Switch between different input methods
			Playback or paused mode, click this button to realize
	Dlay/Dauca		normal playback
	Flay/Fause		Iris+ Adjust iris
			Numeral Letter 6 mno
	Povorco/Pouc		In normal playback or pause mode, click this button to reverse
	Reverse/Paus e	K	Zoom-
			Numeral Letter 5 jkl
	Fast play		Various fast speeds and normal playback.
			Zoom+
3			Numeral Letter 4 ghi
	Slow Play		Multiple slow play speeds or normal playback
			Zoom-
			Numeral Letter 3 def
			In playback mode, playback the next video
	Play Next		Focus+
			Numeral Letter 2 abc
			In playback mode, playback the previous video
	Play Previous		Focus-
			Numeral 1
4	Assistant	Fn	Assistant function: PTZ control and image color. In PTZ menu, shift PTZ control menu.
			Numeral Letter 9 wxyz

	Record	REC	Manually stop/start recording
5			Enter PTZ setting in PTZ setting
			Numeral Key 0
6	Switch	Switch	Switch between function and numeral
			Manually stop/start recording
7	Record	REC	Enter PTZ setting in PTZ setting
			Numeral Key 0
			Activate current control, modify setup, increase/decrease numera
	Up/down		Increase/decrease numeral, assistant function such as PTZ
	Left/right		Shift current activated control. When playback, click these button
8			PTZ control
	Enter	L	Confirm current operation
			System menu in review window
	Bower	Power	Power indicator light
9	Power	Network	Network indicator light
		Status	When push any key, status indicator light will be on
10	Power Button	¢	Power button, press for 4 seconds to shut down DVR.
11	Remote	IR	Receive remote control signal
12	USB Port	USB	Only support USB mouse

2.2.2 VR9400 Front Panel



VR9400 Front Panel

S/N	Name	lcon	Function
1	Power indicator	Power	Power indicator light
	Light	Switch	Switch indicator light

		Ready	Ready indicator light
		Alarm	Alarm indicator light
		Record	Record indicator light
		Status	When push any key, status indicator light will be on
		Networ	Network indicator light
		HDD	HDD indicator light
			Playback or paused mode, click this button to realize
	Play/Pauso		normal playback
	Flay/Fause		Iris+ Adjust iris
			Numeral Letter 6 mno
			In normal playback or pause mode, click this button to reverse
	Reverse/Pause		Zoom-
			Numeral Letter 5 jkl
			Various fast speeds and normal playback.
	Fast play		Zoom+
2			Numeral Letter 4 ghi
			Multiple slow play speeds or normal playback
	Slow Play		Zoom-
			Numeral Letter 3 def
		Þ	In playback mode, playback the next video
	Play Next		Focus+
			Numeral Letter 2 abc
	Play Previous		In playback mode, playback the previous video
			Focus-
			Numeral 1
3	Sub Menu	Sub	Right-click sub menu
		Menu	Numeral Letter 7 pqrs
	PT7	PTZ	Assistant function, PTZ control
4			Numeral Letter 8 tuv
	Input	î	Switch between different input methods
5	Assistant	Fn	Assistant function: PTZ control and image color. In PTZ menu, shift PTZ control menu.
			Numeral Letter 9 wxyz
6	Switch	Switch	Switch between function and numeral
			Manually stop/start recording
7	7 Record	REC	Enter PTZ setting in PTZ setting
			Numeral Key 0
8		Activate current control, modify setup, increase/decrease nume	
	op/down		Increase/decrease numeral, assistant function such as PTZ

	l off/right		Shift current activated control. When playback, click these but
	Leitright		PTZ control
	Entor	Ł	Confirm current operation
	Enter		System menu in review window
9	ESC	ESC	Close upper interface or controls.
10	Remote control	IR	Receive remote control signal
11	Power Button	Ø	Power button, press for 4 seconds to shut down DVR.
12	USB Port	USB	Only support USB mouse

2.2.3 VR9500 Front Panel



VR9500 Front Panel

S/N	Name	lcon	Function
		Power	Power indicator light
		Switch	Switch indicator light
		Ready	Ready indicator light
4	Power indicator	Alarm	Alarm indicator light
1	Light	Record	Record indicator light
		Status	When push any key, status indicator light will be on
		Networ	Network indicator light
		HDD	HDD indicator light
•		Play/Pause	Playback or paused mode, click this button to realize
2	Play/Pauso		normal playback
	riay/rause		Iris+ Adjust iris
			Numeral Letter 6 mno
			In normal playback or pause mode, click this button to reverse
	Reverse/Pause		Zoom-
			Numeral Letter 5 jkl
	Fast play		Various fast speeds and normal playback.
			Zoom+

			Numeral Letter 4 ghi
-			Multiple slow play speeds or normal playback
	Slow Play		Zoom-
			Numeral Letter 3 def
			In playback mode, playback the next video
	Play Next		Focus+
			Numeral Letter 2 abc
			In playback mode, playback the previous video
	Play Previous		Focus-
			Numeral 1
3	Sub Menu	Sub	Right-click sub menu
		Menu	Numeral Letter 7 pqrs
	PTZ	PTZ	Assistant function, PTZ control
4			Numeral Letter 8 tuv
	Input	î	Switch between different input methods
5	Assistant	Fn	Assistant function: PTZ control and image color. In PTZ menu, shift PTZ control menu.
			Numeral Letter 9 wxyz
6	Switch	Switch	Switch between function and numeral
	Record		Manually stop/start recording
7		REC	Enter PTZ setting in PTZ setting
			Numeral Key 0
			Activate current control, modify setup, increase/decrease nume
	Up/down		Increase/decrease numeral, assistant function such as PTZ
	1 - <i>61 la</i>		Shift current activated control. When playback, click these but
ð	Lenvright		PTZ control
	Entor	t	Confirm current operation
	Enter		System menu in review window
9	ESC	ESC	Close upper interface or controls.
10	Remote control	IR	Receive remote control signal
11	Power Button	¢	Power button, press for 4 seconds to shut down DVR.
12	USB Port	USB	Only support USB mouse

2.2.4 VR9600 Front Panel

VR9600 Front Panel

S/N	Name	lcon	Function
1	Power	٩	Power button, press for 3 seconds to shut down DVR.
2	Remote	IR	Receive remote control signal
3	USB	USB	Only support USB mouse
4	indicator Light	1-16	1-16 channel indicator Light
	Numeral	1-0	Numeral Letter Character
5	SHIFT	Ŷ	Switch between function and numeral
	10+	10+	Switch above 10+ channels
6	Assistant	Fn	Assistant function: PTZ control and image color. In PTZ menu, shift PTZ control menu.
		• •	Activate current control, modify setup, increase/decrease nume
	Up/down		Increase/decrease numeral, assistant function such as PTZ
	l oft/right		Shift current activated control. When playback, click these but
	Leivingin		PTZ control
	Enter	Enter	Confirm current operation
	Litter		System menu in review window
	ESC	ESC	Close upper interface or controls.
	Rec	Record	Manually stop/start recording

	Mult	Multi	Multi display channels
		ACT	LED Indicators
7	LED	STATUS	When push any key, status indicator light will be on
		NETWORK	Network indicator light
	Play/Pause		Playback or paused mode, click this button to realize normal playback
			Iris+ Adjust iris
	Reverse/Pa		In normal playback or pause mode, click this button to reverse
	use		Iris- Adjust iris
	Fast play		Various fast speeds and normal playback.
8	i ust pluy	19 M	Zoom+
	Slow Play		Multiple slow play speeds or normal playback
			Zoom-
	Play Next		In playback mode, playback the next video
			Focus+
	Play Previous		In playback mode, playback the previous video
			Focus-
		Outer ring	Left / Right
9	Jog Dial	Inter ring	Up / Down / Left / Right, and Fast play / Slow play

2.3 Rear Panel

2.3.1 VR9300 Rear Panel



VR9300 Rear Panel

S/N	Function
1	4 Channel Video Input
2	1 Channel Video Output
3	4 Channel Audio Input
4	1 Channel Audio Output

5	RJ45
6	USB OTG 2.0 (Only for USB storage device)
7	DC 12V
8	RS-485
9	1 VGA Output
10	1 Channel Alarm Output
11	1 Channel Alarm Input

2.3.2 VR9400 Rear Panel



VR9400 Rear Panel

S/N	Function
1	4 Channel Audio Input
2	4 Channel Video Input
3	1 Channel Video Output
4	1 Channel Audio Output
5	1 VGA Output
6	RS-232
7	RJ45
8	USB OTG 2.0 (Only for USB storage device)
9	DC 12V
10	2 Channel Alarm Output
11	RS-485
12	2 Channel Alarm Input



2.3.3 VR9500 Rear Panel

VR9500 Rear Panel

S/N	Function
1	8 Channel Audio Input
2	8 Channel Video Input
3	1 Channel Video Output
4	1 Channel Audio Input
5	1 VGA Output
6	RS-232
7	RJ45
8	USB OTG 2.0 (Only for USB storage device)
9	2 Channel Alarm Output
10	8 Channel Alarm Input
11	RS-485
12	GND
13	AC110V~ 230V

VR9500 (16 Channel Without Audio)



S/N	Function
1	16 Channel Video Input
2	1 Channel Video Output
3	RS-232
4	VGA Output
5	RJ45
6	USB OTG 2.0 (Only for USB storage device)
7	DC12V
8	4 Channel Alarm Output
9	RS-485
10	16 Channel Alarm Input
11	On/Off switch
12	GND

VR9500 Rear Panel

2.3.4 VR9600 Rear Panel



VR9600 Rear Panel

S/N	Function
1	AC110V~ 230V and power switch
2	Loop Video Output
3	16 Channel Video Input
4	4 Channel Audio Input
5	RS-232
6	VGA Output
7	RJ45
8	4 Channel Alarm Output
9	RS-485
10	16 Channel Alarm Input

2.4 Mouse Function

* For right-hand mouse

The DVR could be operated by mouse, connect the USB mouse into the USB port in

front panel

	System pops up password input dialogue box if you have not logged in.
	In real-time monitor mode, you can go to the main menu.
	When you have selected one menu item, left click mouse to view menu
	content.
	Implement the control operation.
	Modify checkbox or motion detection status.
	Click combo box to pop up drop down list.
	In input box, you can select input methods. Left click the corresponding
	button on the panel you can input numeral/English character
Left click	(small/capitalized). Here \leftarrow stands for backspace button stands for
mouse	Space Dutton.
	for deleting the previous character
	In numeral input mode: stands for clear and \leftarrow stands for deleting
	the previous numeral.
	When input special sign, you can click corresponding numeral in the front
	panel to input. For example, click numeral 1 you can input"/", or you can
	click the numeral in the on-screen keyboard directly.
	Implement special control operation such as double click one item in the file list to playback the video.
Double left	In multiple-window mode, double left click one channel to view in
click mouse	full-window.
	Double left click current video again to go back to previous
	multiple-window mode.
Right click	In real-time monitor mode, pops up shortcut menu: one-window, four-window, nine-window and sixteen-window, Pan/Tilt/Zoom, color setting, search, record, alarm input, alarm output, main menu.
mouse	selected channel.
	If you are in multiple-window mode, system automatically switches to the corresponding channel.

	Exit current menu without saving the modification.				
Press	In numeral input box: Increase or decrease numeral value.				
middlo	Switch the items in the check box.				
hutten	Page up or page down				
Dutton					
Move	Select current control or move control				
mouse					
	Select motion detection zone				
Drag mouse	Select privacy mask zone.				

						abo
а	b	C	d	e	1	g
h	I	i	k	1	m	n
0	p	q	r	S	t	L
u	V	w	x	y	z	+

Lower Case Letter Input

			123
1	2	3	
4	5	6	
7	8	9	
0		+	

Numeral Input

						中	
sh	on	g	ф	种	重	众	终
а	b	C	d	e	1	g	Γ
h	i	I	k	Π	m	n	
0	p	q	r	S	t	-	
u	V	w	×	Y	Z	+	

Mandarin Chinese Input



Upper Case Letter Input



Additional Character Input

SYSTEM MENU	
Main Menu	
Record Playback	
Record Control	
Record Backup	
Alarm Output	
Pan/Tilt/Zoom	
Color Setting	
TV Adjust	
Logout	
View 1	٠.
View 4	۲
View 8	۶.
View 16	
Mute	
1.1.1.1.1.1.	

Sub Menu

2.5 Remote Control



Remote Control Keys

S/N	Name	lcon	Function
1	Window switch	Ħ	Switch between one-window and multiple-window dis modes.
2	Add	ID	Enter DVR No. setting *999 for Administrator *DVR No. setting: Main Menu->Setting->General: DVR number
3	Numeral keys 0-9 Input password, swife		Input password, switch channel and input numeral.
	PTZ	PTZ	In PTZ function: enable PTZ
4	Shift	î	Click this button to switch between numeral, English (Small/Capitalized), Chinese
5	Assistant	Fn	Support Multi-function: Shift PTZ control manual, Delete the previous character, Realize special functions
6	Enter	Enter	Confirm operation
Ŭ	Enter		Go to the main menu
7	ESC	ESC	Close upper interface or controls
	Up/down		Activate current control, modify setup,
8	3 Left/right		Increase/decrease numeral, assistant function such as
			Shift current activated control
			When playback, click these buttons to control playback
9	Record	Record	Manually stop/start recording, working with direction keys
			In PTZ function: PTZ setting
10	Shortcut Menu	Sub Menu	pops up shortcut menu
	Play/Pause Reverse/Pause	Play/Pause	Playback or paused mode, click this button to realize
			In normal playback or pause mode, click this button to rever
	Fast play		Various fast speeds and normal playback
			Zoom +
11	Slow play		Multiple slow play speeds or normal playback
			Zoom -
	Play previous		In playback mode, playback the previous video
			Focus -
	Dieu mart		In playback mode, playback the next video
	Play next		Focus +

3 Installation

Before installation:

- 1. Take out all items include in package
- 2. Connect the cables according to your application (video cable, audio cable, RS485 cable, Ethernet cables)

, , ,

- 3. Take out the power adapter and connect to the power supply
- 4. Firstly connect rear panel, then front panel, connect the power supply in the last

3.1 DVR installation

Check unpacked DVR

- When you receive the DVR from the shipping agency, please check whether there is any visible damage to the DVR appearance.
- Open the box to check the accessories. Please check the items in accordance with the list on the warranty card
- Remove the protective film of the DVR

Front Panel and rear Panel

- This series DVR has two different front panels. You can refer to instruction
- The product model in front panel is the important information, please check with your orders
- The sticker on the rear panel is very important for our sales service, please keep it in a good situation, do not tear up, and diskard. It is needed to provide the product series number when you call for sales service

Check after open the case converter

Please check whether there is any visible damage on the cover, and the data cable in front panel, power cable, fan power connections.

Please carefully read those warning and any query please contact us.

1. Before installation, please open the package and check all the components listed.

Note: See attachment file B

2. All installation and operation here should conform to local electrical safety codes

3. The DVR should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc. Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3.2 HDD installation

DVR need install HDD first, $1 \sim 2$ HDDs could be installed into DVR enclosure (no capacity limit), we recommend high-speed HDD 7200rpm or higher, and the SATA cable included in package



 $(\ensuremath{\underline{1}})$ Loosen the screws on the top cover

2 Remove the HDD bracket



3 Use provided HDD screws, install HDD on the bracket



4 Fix the HDD bracket on the DVR base plate



⑤ Loosen the power cable



⁽⁶⁾ Use SATA cable connect to the DVR main board SATA ports, and then connect power cord to the HDD



⑦ Tie up all cables



 \circledast Close the DVR enclosure and screw firmly



9 Horizontal place



10 Connect power supply



3.3 Rack Mounting

Vision Digital Technology DVR uses standard 2U enclosure and adapt for industry

rack mount

Steps and notes:

- 1 Fix the enclosure by 6 screws
- 2 Temperature should be lower than 35° C (95°f).
- 3 15 cm (6 Inch) free space around the unit, be sure air flow is not obstructed.
- 4 Install the unit from top to bottom
- 5 Please check input voltage and device power button match or not.

This version of User's Manual for Standard 1U / 2U and Compact enclosure,

3.4 Connection

3.4.1 Video Input and Output

Video input connections:

- DVR provide BNC video input connector, input signal format PAL / NTSC (1.0V_{P-P}, 75Ω)
- We suggest use coaxial cable for better video quality, video gain amplifier device or optic fiber may needed if long distance transmission

- Please make sure all coaxial cables are connected filmy.
- Note:

The camera should be installed in a proper location, avoid direct sunshine backlighting, or low lighting. We recommend using the camera with backlighting compensation and low light compensation function

Make sure both camera and DVR are grounding properly

The coaxial cable should away from any devices or circuit with electromagnetic interference

Video output connection

- DVR have BNC (PAL BNC 1.0V_{P-P}, 75Ω) video output and VGA video output, can display at the same time
- When you connect the DVR with a TV monitor or VGA monitor, the DVR can automatically detects the monitor type
- We recommend the surveillance monitor specially designed for best display quality

When you use TV monitor or PC monitor, please note:

- Make sure the monitor grounding properly
- Degaussing frequently for better display quality
- Away from any devices or circuit with electromagnetic interference
- Not suitable for continuously working

3.4.2 Audio input and output

The DVR audio output signal is more than 200mv 1K (BNC or RCA), can directly connect to low impedance headphones, active speakers, or other devices via amplifier

Note: if the active speakers and microphones are too close, there will cause high-frequency noise output, to avoid:

- Adjust the speakers volume to lower level
- Adjust the speakers and microphones location
- Use more sound-absorbing material in application environment, to reduce the audio reflection
- Use better directional microphones

3.4.3 Alarm input and output



Alarm output sockets

• $C_1 NO_1$; $C_2 NO_2$ are 2 groups normal open linkage output (switching value),

"↓ ":grounding

- 2 channels switching alarm output (normal open contact), alarm device should be with individual power supply
- Alarm when loop alarm grounding
- To avoid overload, please refer to relay specification as below:

Relay specification:

Model:	JRC-27F		
Material of the touch	Silver		
	Rated switch capacity	30VDC 2A, 125VAC 1A	
Rating (resistance	Maximum switch power	125VA 160W	
load)	Maximum switch voltage	250VAC, 220VDC	
	Maximum switch currency	1A	
	Between contacts with same polarity	1000VAC 1minute 50/60Hz	
Insulation	Between contacts with different polarity	1000VAC 1minute 50/60Hz	
	Between contact and winding	1000VAC 1minute 50/60Hz	
Surge voltage	Between contacts with same polarity	1500V (10×160us)	
Length of open time	Max 3ms.		
Length of close time	Max 3ms.		
Longovity	Mechanical	50×106 times (3Hz)	
Longevity	Electrical	200×103 times (0.5Hz)	
Temperature	-40°C ~+70°C		

Alarm output note:

Max alarm output no more than 1A

- Avoid the power overload when output loop, may cause the damage
- Use the co contactor to isolate when high-power load

Alarm input sockets:

- Show on the figure, the second row 1, 2, 3, 4, 5, 6, 7, 8, corresponded to alarm input ALARM1~ALARM8
- Alarm input type could be normal open or normal close
- Grounding joining-up in parallel with Alarm detector and DVR
- Alarm detector NC port connected to DVR alarm input (ALARM)
- The alarm device should be grounding with DVR when use the outer power supply

Alarm input note:

- Grounding alarm input
- Alarm input require the grounding voltage signal
- Use the co contactor to isolate when the alarm device connected to 2 sets of DVR, or

1 set of DVR and other device

3.4.4 PTZ control connection



Show as on figure, "RS-485, A, B" refer to RS485 A, B wire, connect to encoder or other control device

PTZ & DVR connection

- 1、Connect the speed dome camera RS485 cable to DVR RS 485 port
- 2. Connect the speed dome camera video cable to DRV video input
- 3、Connect power supply

PTZ connection note:

- Make sure both grounding for PTZ decoder and DVR, or else common mode voltage will cause the malfunction of PTZ control, we recommend to use the shielded twisted-pair cable
- Avoid the high voltage power interference, ensure the good cable wiring and avoid the lightning stroke
- 120-ohms resistance should be needed to ensure the signal quality, if more PTZ decoder connected
- The DVR RS485 cable should not be parallel connected with other RS485 devices
- The voltage between decoder wire A,B port should be less than 5V
- Make sure the grounding for front device

4 System Introduction

4.1 System Menu Tree



4.1.1 Main Menu

Main Menu	Sub Menu	Function
	Schedule	Time setting for record, motion detection, external alarm.
	1	Time operated setting per day per week (Period time for record, receive external alarm signal, motion detection)
Record	Search	Record enquiry and playback, sorted by video type (All, alarm, motion detection, all alarm), channels, time, the result will be displayed in file list, choose the file to play R- Regular recording file A – Alarming recoding file
		M - Motion detection file H - Manual
	Backup	
		Record backup operation and setting
	Motion Detection	Include channel, enable/off, sensitive, detection zone,
	*	arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Camera Masking	Include channel, enable/off, sensitive, detection zone,
		arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
Alarm	Video Lost	Include channel, enable/off, arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Alarm Input	Include channel, enable/off, alarm input type, arming time, output time delay, alarm linkage, PTZ linkage, pre-recording, patrol setting etc., copy & paste for same settings
	Alarm Output	
	\bigoplus	Alarm Mode, setting, on/off and status
	Abnormity	
		Abnormity setting, on/off and linkage action (Alarm output,

	General	Setting system time, time format, language, recording in HDD, series number, video system, video output format, stand-by time, etc.					
	Encode	Setting audio & video encode mode, frame rate, quality, etc.					
	Network	Setting network address, video transmission protocols, DHCP, etc.					
	Display	Setting channel name, front output, coding output, masking, etc.					
Setting	Account	User group and account					
	PTZ	PTZ control protocols and bit rate					
	RS232	Setting series port and bit rate					
	Tour	Setting preview, tour time, etc.					
Tool	HDD Manage	HDD management, delete data and etc. Note: System will restart after setting HDD					
	Online Users	Online user management					
	TV Adjust	Adjust picture's up, down, left, right deflate.					
	USB Update	File system, U-BOOT , Kernel, Configuration, Application update,					
--	--------------------	--	--	--	--	--	--
	Maintenance	Save system configuration as a file, easy to save or load for quick setting.					
Configuration Restart system and delete files.							
Default Restore all to default or partially by selection Note: Not for user account Note: Not for user account							
	Shut Down	User logout, system shutdown, restart, etc					
	HDD Information	SATA interface status, capacity for each HDD and total, remaining capacity, video start/stop time, etc. Type: read-write disk, read-only disk, redundancy disk etc.					
Info	BPS	Each channel's bit rate and occupied HDD capacity per hour.					
	Log	Display important event log and designate needed log.					
	Version	Display system hardware, software version and release date, etc.					

4.1.2 Sub Menu

	Record Playback	Record video inquiry and playback
	Record Control	Set record status: schedule/manual/stop
	Record Backup	Record backup operation and setting
Menu	Alarm Output	Alarm output setting, on/off and status
	Pan/Tilt/Zoom	PTZ control protocols and bit rate
	Color Setting	Set hue, brightness, contrast, saturation
	TV Adjust	Adjust picture's up, down, left, right deflate.
	Logout	User logout, system shutdown
	View	1 / 4 / 8 / 16 channel display
	Mute	Buzzer off

Sub Menu

4.2 main menu operation

Main menu includes: video function, alarm function, system setup, management tool, system information.

Note:

All sub-menu setup will be effective by confirming "SAVE", otherwise ineffective.

♦ When check box ■ is highlighted, it means certain function is selected. If unfilled

means not selected.

Enter main menu method:

- 1, press ENTER button on the panel to enter main menu directly
- 2, press Esc button on the panel, select MAIN MENU.



4.2.1 Video function

Note: User should have "Record" authority, HDD should be installed and format properly,

Setting video setup and playback function, including schedule, motion detection, and exterior alarm setting. Inquire according to video type (ALL, NORMAL, ALARM, MOTION DETECTION), channel, time. The result will be displayed in a list



1. Record Setup

When the system boots up, it is in default 24-hour regular mode. You can set record type and time in schedule interface. Setting at Main menu> Video function> video setting.

-	Schedule		
Channel Pack Duration Record Coptrol	1 Redunda 60 min. Pre-reco	ncy	sec.
Week Day	Wed -	CMN MD	Alarm
Schedule 1	00:00 - 24:00		
Schedule 2	00:00 - 24:00		
Schedule 3	00:00 - 24:00		
Schedule 4	00:00 · 24:00		
Schedule 5	00:00 - 24:00		
Schedule 6	00:00 - 24:00		
Сору	Paste (Default)	Save	Cancel

Including schedule setting regarding Regular (R), motion detection video (M), Alarm

(A) Manual (H)

Channel: Please select the channel number first. You can select "all" if you want to set for the whole channels.

Redundancy: System supports redundancy backup function. You can highlight Redundancy button to activate this function. Please note, before enable this function, please set at least one HDD as redundant. (Main menu->Advanced->HDD Management)

Pack Duration: Choose the time slice of video file

Pre-record: record the video previously than motion detection

Video control: single option, "●" means selected, there are "config", "all the time", "close" 3 options.

Week day: There are eight options: ranges from Saturday to Sunday and all.

Time period: means current channel is recording in this period. "■" setting regular, motion detection, alarm, status, it can be single or multiple choices. 6 time periods to set.

Also allows you to copy one channel setup to another. After setting in channel 1, you can click paste button and turn to channel 2 and then click copy button. You can finish setting for one channel and then click save button or you can finish all setup and then click save button to memorize all the settings.



2. Video Playback

Video inquiry	demonstration	on-screen display
enter video	Select video function from main men	u to enter menu page
playback menu	Notet: The password may needed wh	nen user logout.
Video playback operation	According to video type: all, alarm, video, channel, time etc., you can multiple conditions. The result is dis list shows128 video files, you car up/down check video file or drag mo name and double click mouse (or view file content. Note: file type model: R-Regular, Alarm.H—Manual Selecting single video playback o select channel 1 or channel 2 to playback means 2 window's video file	motion detection, all alarm inquire video file based on splayed as a list. The screen of press
Playback operation	Playback video (screen displays cha play progress), control speed, replay file according to inquiry result), full sc Note: The status bar will be hidden a display, move mouse	annel, date, time, play speed, y (automatically replay video creen display ect. automaticlly when full screen to display again.
Channels switch	When video playback, press number	er button to switch playback
when playback	channel	
Partial zoom	Right click mouse to select any zon click to zoom in, Right click to exit.	ne when playback, and Left

Calendar search

Click calendar icon , it will display video record. (Blue means the recorded video, blank frame means no record, shown as following figure), then click the date, the file list will be automatically updated

							1P St	2P art Time Type
	(en and	-	20	10-01-	13			
	<	Jan			2010		>	
	Sun	Mon	Tue	Wed	Thu	Fri 1	Sat 2	
	3			6		8		
	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	ne
	24	25	26	27	28	29	30	
	31							ne
								لم)
2010-01-13	00: 00:	00	:	All			1 -	
								Record Search

Fast forward and Slow playback

Button	Illustration							
► Fast play	In playback mode, click this button to switch between various fast play modes such as fast play 1,fast play 2 and more.(Fast play 1 means fast play							
	level 1 or not about speed) In playback mode, click this button to switch between various slow play modes such as slow play							
slow play key	1 or slow play 2.							
	In slow playback mode, click this button to switch							
Play/Pause	between play/pause modes.							
	In playback mode, you can click 🚺 and ▶ to view							
Previous/next	previous or next video in current channel.							

Backward playback and frame by frame playback

Button	Illustration	Remarks
Backward play in playback interface.	In normal playback mode, left click backward play button, system begins backward playback. Double click backward play button again, system goes to pause mode.	When system is in backward play or frame by frame playback mode, you
Manual playback frame by frame.	Click pause button in normal playback mode, slowly turn the jog (inner dial) clock-wise to view frame by frame, counter clock wise to view I frame playback.	button to go to normal playback.

3. Backup

Backup the recorded files to local storage device, support USB storage devices, support FAT32, NTFS;



Detect: Detect the USB portable device connected with DVR, and display the device name, Free space / Total space status

USB Backup: list and backup the selected file, to the USB Devices, could be sorted by Record type, channel, time

Erase: erase all the data in the USB device

Note: During the Playback mode, select one recorded file and press "backup" button, backup to USB devices, shown as below:

	US	В Васкир	
Selected Device	sdb1(USB DISK)		
Туре	All	Channel 1	
Start Time	2010 - 01 -	13 00:00:00	Remove
End Time	2010 - 01 -	13 13 : 15 : 53	Add
0 СН Туре	Start Time	End Time	Size(KB)
™ Page Up Space Required	i≪ Page Down / Space Remaini	EnSelect/Cancel back ng:0.00 KB/104.98 GB	up device or file. Start

4.2.2 Alarm Function

Sub-menu: motion detection, camera masking, video loss, alarm input, alarm input,

abnormality.



1. Motion Detection

	Motion Dete	ection		_
Channel Enable	1			
Sensitivity	Highest 🔹	Region	Sele	ct
Schedule Alarm Out Show Message	(<u>Set</u>) 1234	Alarm Delay Alarm duration	0 10 โปรงเรือเ)sec.)sec. 7210307
Tour Buzzer	Select)	Post-record	10 10 1)(12)(13)	14)15)16
Сору	Paste) (Defau	lt (Save	Canc	el)

By analyzing video, when system detects sensitive moving signal, it will start motion detection alarm.

Operation method:

Channel: select the channel you want to implement motion detection.

Enable: function enable switch

Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.

Region: can set 396 (22*18) zones. The black is open zone; the pink is motion detection zone.



Period: Click set button, you can see an interface is shown as in below. Here you can set your own setup for business day and non-business day 。

		_		Set		_			-
Wed		-							
00:00		24:00				00:00		24:0	0
00:00		24:00				00:00		24:0	0
00:00		24:00				00:00		24:0	0
	0	3	6	9	12	15	18	21	24
sun Mon Tue									
Fri Sat									
	0	3	6	9	12	15	18	21	24
Copy		Paste		Defa	ult	0	6	Ca	ncel

Alarm output: when alarm occurred, system enables peripheral alarm devices

Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

On-screen: reverse display means allowing on-screen. There is connection motion on the screen when alarm signal happens.

Send email: System can send out email to alert you when alarm occurs.

Channel: select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface (Main Menu->Setting->Schedule) and schedule record in manual record interface (Main Menu->Advanced->Manual Record)

PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click "select" button,

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	_		-	PTZ Act	-	_		
CAM 1	None	•	0	CAM 2	None	•	0	
CAM 3	None	•	0	CAM 4	None	•	0	
CAM 5	None	•	0	CAM 6	None	•	0	
CAM 7	None	•	0	CAM 8	None	•	0	
CAM 9	None	•	0	CAM 10	None	•	0	
CAM 11	None	•	0	CAM 12	None	•	0	
CAM 13	None	•	0	CAM 14	None	•	0	
CAM 15	None	•	0	CAM 16	None	•	0	
			OK) (Ca	ncel)			

Tour: Here you can enable tour function when alarm occurs. It is a one-window tour. Latch: when motion detection, system auto delays recording for a specified time. The value ranges from 10-300 (Unit: second)

Buzzer: Default is "off"

2. Camera Masking

When someone viciously masks lens, the system can alert you to guarantee video continuity. You can select Alarm output, On-screen, PTZ Linkage.

	Camera Ma	isking		
Channel Enable Sensitivity	1 Middle			
Schedule Alarm Out Show Message Record CHN PTZ Act Tour Ruzzer	Set 1234 12345(Select 12343(Alarm duration Send Email (7)(8)(9)(9)(6) Post-record 5)(7)(8)(9)(0)(1)	10 11213 10 11213	sec. 14 15 16 sec. 14 15 16
Сору	Paste) (Defau	ılt)(Save)	Canc	el)

Operation method:

Channel: select the channel to record when camera mask occurred.

Enable: function enable switch

Sensitivity: there are six levels. The six-level has the highest sensitivity.

Period: Click set button, you can see an interface is shown as below. Here you can set for business day and non-business day. You can set up six time period, but they can't be repeated. The linear graphics show the period, you can copy the setting to other days



Alarm output: when camera masking occurred, system enables peripheral alarm devices

Latch: when camera masking, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

On-screen: reverse display means allowing on-screen. There is connection motion on the screen when alarm signal happens.

Send email: System can send out email to alert you when alarm occurs.

Channel: select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface (Main Menu->Setting->Schedule) and schedule record in manual record interface (Main Menu->Advanced->Manual Record)

PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour &pattern when there is an alarm. Click "select" button,

Tour: Here you can enable tour function when alarm occurs. It is a one-window tour.

Recording Latch: when motion detection complete, system auto delays recording for a specified time. The value ranges from 10-300 (Unit: second)

-	-	_	-	PTZ Act	_	_		-
CAM 1	None	•	0	CAM 2	None	•	0	
CAM 3	None	•	0	CAM 4	None	•	0	
CAM 5	None	•	0	CAM 6	None	•	0	
CAM 7	None	•	0	CAM 8	None	•	0	
CAM 9	None	•	0	CAM 10	None	•	0	
CAM 11	None	•	0	CAM 12	None	•	0	
CAM 13	None	•	0	CAM 14	None	•	0	
CAM 15	None	•	0	CAM 16	None	•	0	
			ОК) (Ca	ncel)			

Buzzer: Default is "Off"

3. Video Lost

When video loss happens, you can select ALARM OUTPUT or video loss show information in local mainframe screen.

	Video Lost
Channel Enable	
Schedule Alarm Out Show Message Record CHN	Set Alarm duration 10 sec. Send Email Send Sign (Sign
PTZ Act Tour Buzzer	Select) Post-record 10 sec.
Сору	Paste Default Save Cancel

Operation method:

Channel: select the channel you want to enable lens shading alarm.

Enable: function enable switch

Period: Click set button, you can see an interface is shown as in below. Here you can set for business day and non-business day. You can set up six time period, but they can't be repeated. The linear graphics show the period, you can copy the setting to other days



Alarm output: when alarm occurred, system enables peripheral alarm devices.

Show Message: reverse display means allowing on-screen. There is connection motion on the screen when alarm signal happens.

Send email: System can send out email to alert you when alarm occurs.

Channel: select the channel to record when video loss occurred.

PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour & pattern when there is an alarm.

	_	-		PTZ Act	_	-	
CAM 1	None	•	0	CAM 2	None	•	0
CAM 3	None	•	0	CAM 4	None	•	0
CAM 5	None	•	0	CAM 6	None	•	0
CAM 7	None	•	0	CAM 8	None	•	0
CAM 9	None	•	0	CAM 10	None	•	0
CAM 11	None	•	0	CAM 12	None	•	0
CAM 13	None	•	0	CAM 14	None	•	0
CAM 15	None	•	0	CAM 16	None	•	0

Tour; Here you can enable tour function when alarm occurs. It is a one-window tour. Latch: when video lost complete, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

Channel: select the channel to activate recording function once alarm occurred. Please make sure you have set MD record in encode interface (Main Menu->Setting->Schedule) and schedule record in manual record interface (Main Menu->Advanced->Manual Record)

Recording Latch: when video lost complete, system auto delays recording for a specified time. The value ranges from 10-300 (Unit: second)

Buzzer: Default is "off"

4. Alarm Input

Setting at main menu>alarm function>alarm input.

According to the introduction of 2.4 alarm input/output device connection, please make sure you have properly connected alarm devices such as Alarm, lighter)

User can save each channel configure or save once till all channels are set

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	Alarm In	put	
Alarm in Enable	1	Туре	Normal (🗸
Schedule Alarm Out Show Message	Set 1234	Alarm Delay Alarm duration	0 sec. 10 sec.
Record CHN PTZ Act Tour Buzzer	1) 2345 (Select) 1) 2345	67189101 Post-record 6789101	11213141516 10 sec. 11213141516
Сору	Paste) Defau	ıłt Save	Cancel

Alarm input: select alarm channel number

Enable: function enable switch

Type: normal open or normal close.

Period: Click set button, you can see an interface is shown as in below. Here you can set for business day and non-business day. You can set up six time period, but they can't be repeated. The linear graphics show the period, you can copy the setting to other days

_	Set	
`		
24:00	00:00	- 24:00
24:00	00:00	- 24:00
24:00	00:00	- 24:00
3 6	9 12 15	18 21 24
P3 82 P4		
No. of Concession, Name		
	in in in in in	
6.6.6.		
36	9 12 15	18 21 24
Paste	Default Of	Cancel
	 24:00 24:00 24:00 3 6 Paste 	Set 24:00 00:00 24:00 00:00 24:00 00:00 24:00 00:00 3 6 9 12 15 3 6 9 12 15 Paste Default Of Of

Latch: Here is for you to set proper delay duration. Value ranges from 0 to 600 seconds.

Alarm output: activate peripheral alarm device when motion detection occurred.

Show message: System can pop up a message to alarm you in the local host screen

if you enabled this function

Send email: System can send out email to alert you when alarm occurs.

Record channel: you can select proper channel to record alarm video (Multiple choices)

PTZ activation: Here you can set PTZ movement when alarm occurs. Such as go to preset, tour& pattern when there is an alarm.

-	_		_	PTZ Act	-	_	
CAM 1	None	•	0	CAM 2	None	•	0
CAM 3	None	•	0	CAM 4	None	•	0
CAM 5	None	•	0	CAM 6	None	•	0
CAM 7	None	•	0	CAM 8	None	•	0
CAM 9	None	•	0	CAM 10	None	•	0
CAM 11	None	•	0	CAM 12	None	•	0
CAM 13	None	•	0	CAM 14	None	•	0
CAM 15	None	•	0	CAM 16	None	•	0

Tour: Here you can enable tour function when alarm occurs. It is a one-window tour Latch: when alarm input, system auto delays detecting for a specified time. The value ranges from 10-300 (Unit: second)

Recording Latch: when alarm input complete, system auto delays recording for a specified time. The value ranges from 10-300 (Unit: second)

Buzzer: Default is "off"

5. Alarm Output

Setting at main menu>alarm function>alarm output.

	Alarm	Output	-	
Alarm Type	All	12	3	4
Schedule			۲	•
Manual				
Stop				
Status				
	OK)	Car	ncel	
Status	ок	Car	cel	

Alarm Type: There are two types for you to select.

Schedule: Select all or "1"•, "2"•, "3"•, "4"• for the first channel, second channel, third channel or forth channel.

Manual: Select all or "1"•, "2"•, "3"•, "4"• for the first channel, second channel, third

channel or forth channel.

Stop: close alarm output.

Status: current device alarm output status.

6. Abnormity

Main menu→Alarm→Abnormity

Abnormality, as shows in picture 5-22,

Event type: no disk space, hard disk error, Not enough space, network failure ,IP address conflict,,.

No disk space: DVR does not connect to the disk or hardware is error.

Disk error: The system can not recognize because of disk error

Not enough space: Not enough space for the disk (the percentage of free space will

be showed)

Network failure: The network connection disrupted or network connection error

IP conflict: The IP address of disk recorder network is fixed, the conflict will occur

once there is another same IP is set in the internet.

Enable: function enable switch, reverse means "on"

Alarm output: when exception occurred, system enables peripheral alarm devices

Latch: system auto delays for a specified time. The value ranges from 10-300 (Unit:

second)

On-screen: reverse display means allowing on-screen. There is connection motion on the screen when alarm signal happens.

Send email: System can send out email to alert you when alarm occurs.

Buzzer: Default is "off"

	Abnorm	nity	
Event Type Enable	No Read-write 💙		
Alarm Out	1 2 3 4 Send Email	Alarm duration	10 sec.
Buzzer:			
	Save	Cancel	

4.2.3 System setup

Submenu: General, Encode, Network, Input, User Management, Pan/Tilt/Zoom, Serial Port, Tour.



Note: system setup will be done by user who has the authority

1. General setup

	Ge	nerai					
System Time	2010 - 01 - 1	3 20:38:21					
Date Format	yyyy mm dd	- DST	Set				
Date Separator		-					
Time Format	24-Hour	-					
Language	ENGLISH	1					
HDD Full	Overwrite	1					
DVR No.	8						
Video Standard	PAL	1					
Display Mode	Self-adaptive	-					
Resolution	800×600	1					
Auto Logout	10	min.					
Default Save Cancel							

System time: here is for you to set system time

Date format: there are three types: YYYY-MM-DD: MM-DD-YYYYY or DD-MM-YYYY.

DST: Here you can set DST time and date. Please enable DST function and then click set button.

			0.0			-		
Datart:	ay of W Jan	eek	⊖ Dat [1st	e	Sun	•	00 : 00	
Ind:	Jan	•	1st	•	Sun	•	00 : 00	
			(ЭK		Can	cel)	

Date separator: there are three denotations to separate date: dot, beeline and solidus.

Time format: 24-hour and 12-hour

Language: system supports languages: Chinese (simplified), English,

HDD full: Here is for you to select working mode when hard disk is full. There are two

options: stop recording or rewrite.

Stop or rewrite may be selected while no space for the disk. The condition of stopping recording is the present working disk is full or under covering and the next disk is non-empty. The condition of rewrite is the present working disk is full and the next disk is non-empty.

DVR No: when you are using one remote control to control several DVRs, you can give a name to each DVR for your management.

Video standard: There are two formats: NTSC and PAL.

Output method: you can set self-adaptable, VGA input; TV input 3 types, support VGA and TV input at the same time.

Pack duration: Here is for you to set proper User's operation duration. Value ranges from 0 to 60 Minutes. User need re-login the system after time out.

2. Encode

	Enc	ode		
Channel	1	•		
Compression	H.264	•	Sub Stream1	•
Resolution	CIF	•	QCIF	•
Frame Rate(FPS)	25	•	25	•
Bit Rate Type	VBR	•	CBR	•
Quality	good	•	good	
Bit Rate(Kb/S)	500		384	
IFrame Interval	4		4	
(A.				
Copy F	aste De	fault	Save	Cancel
Conservation Conservation				

Support dual streaming: main streaming and sub streaming

Channel: select channel number

Compression: H.264;

Resolution: CIF or QCIF

Frame rate: PAL: 1-25 f/s, 25 levels optional; NTSC: 1-30 f/s, 30 levels optional

Bit rate: system supports two types: CBR and VBR

Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image quality.

Bit rate: 0kb/s-4096kb/s optional

Frame interval: can set 1 frame, 2-12 optional.

Resolution: CIF or QCIF

Frame rate: 1-25 f/s, 25 levels optional;

Bit rate: system supports two types: CBR and VBR

Quality: There are six levels ranging from 1 to 6. The sixth level has the highest image

quality.

Bit rate: 10kb/s-4096kb/s optional

Frame interval: can set 1 frame, 2-12 optional.

Copy the same settings to all channels.

Regarding single channel bit rate, we recommend set as 512 Kb/s for CIF and

128Kb/s for QCIF

3. Network

	-	Netw	vork		
IP Address Subnet Mask Gateway	192 · 1 255 · 2 192 · 1	68 · 1 55 · 255 68 · 1	· 108 · 0 · 1		
TCP Port	34567		Port	80	
DDP Port Transfer M LAN Dowr Advanced set	lode Noad	_ Max	Connection	10	
		MailSer 0.0.0.0	ver: 25		
	Default) (Sa	ave) ((Cancel)	

IP address, Subnet mask, Gateway: input from Front panel figure buttons to modify IP address, and subnet mask, gateway.

DHCP: highlight means select Dynamic Host Configuration Protocol;

TCP port: Default 34567, configurable according to user's demand

HTTP port: Default 80, configurable according to user's demand

UTP port: Default 37778, configurable according to user's demand

Max connection: system support maximal 10 users. 0 means there is no connection

QoS: Here you can select the priority between fluency/video qualities

Network download: System can process the downloaded data first if you enable this function.

Email

Constant of the Owner of the Ow	Email
SMTP Server	MailServer
Port	25
User Name Password Sender	SSL is required by this server
Title Receiver	OK Cancel

SMTP Server: Input server address and then enable this function.

Port: Default value is 25. You can modify it if necessary.

User Name: The sender email account user name.

Password: The sender email account password.

Sender: Sender email address.

Subject: Input email subject here.

Receiver: Receiver email address.

Note: Please fulfill the postfix of the mail address if it is virtual,(e.g. xxxx@yyyy.com)

otherwise it is not allowed. (e.g. xxxx)

DNS setting

[Primary DNS] According to local DNS

[Secondary DNS] According to local DNS

	D	NS	-		_)	_	
Primary DNS	0		0		0		0	
Secondary DNS	0		0		0		0	Ī.
ОК			Ca	nce	əl			

DDNS setting

DDNS	DDNS
DDNS Type 🛛 Oray DDNS 🕞 💭 Enable	DDNS Type Vision Digital 👻 🗆 Enable Server IP 0 . 0 . 0 . 0 Port 80
Domain Name	Domain Name User Name Password
Cancel	OK Cancel

DDNS Type: Support DDNS server

Domain Name: Your self-defined domain name.

User: The user name you input to log in the server.

Password: The password you input to log in the server.

Server IP: DDNS server IP address

Server Port: DDNS server port.

PPPoE

	PPPOE	
User Name Password IP Address	0.0.0.	0
	OK Cance	el

User name: ADSL user name

Password: ADSL password

IP address: IP is distributed after successful dialing

External HTTP port : The external HTTP port of router, corresponds to the HTTP port of the equipment.

External HTTP port: The external TCP port of router, corresponds to the HTTP port of the equipment.

UPnP



4. Display

	Display
Channel Name	Modify
Time Display Record State	 Channel Display Alarm State
Transparency Coding Output	c 192
Channel	1 🔹
Private Masking	Set Set
Time Display	🔲 Channel Display 🔲 🤇 Set
	efault Save Cancel

Channel display: Click modify button. You can see an interface is shown as above,

including time display, channel display, recording state, alarm state .

Transparency: Here is for you to adjust transparency. The value ranges from 128 to 255.

AM 1 AM 3	CAM 2	CAM 2
AM 3		
	CAM 4	CAM 4
AM 5	CAM 6	CAM 6
AM 7	CAM 8	CAM 8
AM 9	CAM 10	CAM 10
AM 11	CAM 12	CAM 12
AM 13	CAM 14	CAM 14
AM 15	CAM 16	CAM 16
	AM 7 AM 9 AM 11 AM 13 AM 15 Default	AM 7 CAM 8 AM 9 CAM 10 AM 11 CAM 12 AM 13 CAM 14 AM 15 CAM 16 Default Save

Channel: select the channel needed to set.

Cover area (Private masking): Here is for you to set window blanking section. You can drag you mouse to set proper section size



Time Display: You can select to display time by IE or playback.

Channel Display: You can select to display channel name by IE or playback.;

Setting: You can move or change the display location of "time display", "channel display"

5. Account

Management user account

6		Account	
2	User	Group	Status
1	admin	admin	Local GUI
2	guest	user	Normal
	(Modify User)	(Modify Group)(Modify Password)
	(Add User)(Add Group)(Delete User)

Note:

The user name and group name can consist of six bytes. characters, number, underline, subtraction sign, dot, other characters are not allowed.

System account adopts two-level management: group and user. No limit to group or user amount.

For group or user management, there are two levels: admin and user.

User management adopts group and user 2 class ways, group name can not repeat, user name can not repeat, each user must belong to certain group; one user can belong to one group only.

One user should belong to one group. User right can not exceed group right.

Modify password: select user name, input new password in new password blank and re-confirm password. Click SAVE button to confirm

Password modify: elect user name, input new password in new password blank and re-confirm password. Click save button to confirm. Space bar is allowed except the first and last character. In addition, users who have users account can not only change the personal password but also change other users' password.

	Modif	y Password	
Name Old Password New Password Confirm	admin		
	Save	Cancel	

Add group: add group and set group authority

Enter adding group menu page, confirm the group name, select 47 corresponding rights, including control panel, shut down device, real time review, playback, record, backup, PTZ control, user account, system information, alarm input/output setup, system setup, log inquiry, deleting logging, updating system, device control, etc.

Add Group	
Name Memo	
70 Authority 1 Control Panel	F
2 Shutdown the device 3 Monitor_CH01 4 Monitor_CH02 5 Monitor_CH03 6 Monitor_CH04 7 Monitor_CH05 8 Monitor_CH06 9 Monitor_CH07 10 Monitor_CH08	
M Page Up ™ Page Down ™n Enable/Disable Authority Save Cancel	

Modify group: modify existing group.

6	(Modify Group	
Group Name	admin 👻 admin	
Memo	administrator group	
70 1 2 3] Authority] Control Panel] Shutdown the device] Monitor_CH01	#
4 9 5 9 6 9 7 9	Monitor_CH02 Monitor_CH03 Monitor_CH04 Monitor_CH05 Monitor_CH06	
⊢ Paç	ge Up ™ Page Down ™ Enable/Disable Authority (Save) (Delete) (Cancel)	

Add user: add group user and select corresponding rights

	Modify User	
User Name Name	admin 🔹	
Reuseable		
Memo	admin 's account	
Group	admin 💌	
70 [] Aut	thority 🗏	5
1 🛛 Co	ntrol Panel	
2 2 Shu 3 2 Mo 4 2 Mo 5 2 Mo 6 7 Mo	utdown the device onitor_CH01 onitor_CH02 onitor_CH03 onitor_CH04	
📄 🏱 Page Up	p. t∉. Page Down, ⊭n. Enable/Disable Authority	
(Save Delete Cancel	

There are 2 default users: "admin" "guest".

"admin" users have administrator right. The default password is "123456" for all 2 default users' account. "guest" user only can review playback and backup.

About reusable function: this function allows multiple users use the same account to login.

Once select the user to a group, the user authority can not surpass this group authority property.

We recommend that normal user's authority lower than other advanced user.

6. PTZ setup

Note: The camera video should be in the current screen. Before setup, please check the following connections are right:

Address: input corresponding PTZ address.

Decoder A (B) line connects with DVR A (B) line.

Boot up the DVR, input user name and password.

In the main menu, click setting, and then click Pan/Tilt Control button.

-		PTZ		
Channel	1	-		
Protocol	PELCOD	T		
Address	1			
Baudrate	9600	T-		
Data Bits	8	-		
Stop Bits	1			
Parity	None			
Conv	Pasta	Dofaul	Carlo	Cancol
Сору	rasie	Delaul	Save	

Channel: select the current camera channel.

Protocol: select corresponding PTZ protocol, 18 protocols embedded.

Address: default address is 1.

Attention: this address must accord with camera's address; otherwise camera can not be controlled.

Baud rate: select corresponding baud rate. Default value is 9600.

Data bits: select corresponding data bits. Default value is 8.

Stop bits: select corresponding stop bits. Default value is 1.

Parity: there are five options: odd/even/none/blank. Default is none.

7. RS232

Function	Console	
Baudrate	115200	······
Data Bits	8	
Stop Bits	1	······
Parita	None	······

Function: There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to control current device.

Baud rate: You can select proper baud rate.

Data bit: You can select proper data bit.

Stop bit: There are three values: 1/2.

Parity: there are 4 choices: none/odd/even/blank

System default: Console, Baud rate is 115200, data bit is 8 digits, stop bit is 1, and Parity is none.

8. Tour

Set patrol and time, interval is 5-120s, includes single picture, 4 pictures, 8 pictures, 9

/16pictures.

	Tou	r and a second se
Enable Tour		
Interval	5	sec.
View/1		
	19 10 11	1 62 63 62 63 65 66
View 4		
View 8		
)1213141516
View 16		
Default	Sav	e Cancel

4.2.4 Tool

Management tool menu includes: HDD management, On-line user, TV adjust, USB update, Auto Maintenance, Restore, and Shut Down.



1. HDD Management

Vision Digital DVR supports 2 SATA HDD. Enter MENU>ADVANCED OPTION>HDD MANAGEMENT.

1	(-	-	-	_	Hi	DD M	ianag	je	-		1
	SATA	1 -	2 O	3	4	5 -	6	7) -	8 -			
	No. Type Status Capacity	1 Rea Not 465	ad/V rmal 5,74	Vrite GB		•	Set	Rea	id/Write	•	Execute	
							E	×it				

If 2pcs HDD installed, then displayed as 1-2 in HDD. If selecting the first HDD, it displays current type, total capacity, and record time. You can modify HDD attribute, read-only disk, read-write disk, redundancy disk or delete all the data in the HDD. After all

the setups please click OK button, system goes back to the previous menu

Note: You can set proper mode for each hard disk from the dropdown list.

When you use redundant backup function, you can set one or more redundant HDD(s).

Please note you need to set at least one read-write disk, otherwise system will not record video.

2. Online User

You can disconnect one user or block one user if you have proper system right. Max disconnection setup is 65535 seconds.

	Online Use	ərs
User Name	qı	Login Type
(Disconnect) (Block 60	sec.
3. TV Adjust

Adjust picture's up, down, left, right deflate. Please drag slide bar to adjust each item, adjust range value from $0 \sim 100$, default value 0.

After all the setups please click OK button, system goes back to the previous menu.

0	TV Adjust	
Тор	<u>[]</u>	0
Bottom	<u> </u>	0
Left	<u>[]</u>	0
Right	1	0
	(OK) Canc	el)

4. USB upgrade

Connect to the USB port on the rear panel with the USB device, which has upgrade file, and then select the file to upgrade. The upgrade includes kernel, u-boot, setting, applications and file system.

6	_	USB Update
	0	Name(Type) ATTR
		Refresh Previous Next Update

5. Configuration

6	(-	_	Conligu	iration	_	-		
	0		1	Vame(Ty	pe)		ATTR		
(Detect	I) (Prev	ious)	Next)(Export)(Import	5

Output setting

Connect to the USB interface on the rear panel with the USB equipment, set the system output into a file named cfg.coi

Input setting

Connect to the USB interface on the rear panel with the USB equipment, select setting file to input.

6. Maintenance

	Vlainten	ance	
Every Tuesday	👻 at	02:00	•
Never	•		
0	() (Cancel)

Here you can set auto-reboot time and auto-delete old files setup...

You can select proper setup from dropdown list.

After all the setups please click save button, system goes back to the previous menu.

7. Default

(C	Default	
Pleas	e select setting entri	es that you want to defa	ult;
Selec Gene Sche Motio RS23 Displa Abno	et all	Encode Network Alarm PTZ Channel Name	
	(OK	Cancel	
You can highlight Select all General Encode Schedule	to restore defau	It factory setup.	
Alarm Detect Pan/tilt/zoom			

- Display
- Channel name
- RS232 setting
- Abnormity
- 8. Exit

	Shut Down
Shutdown	~
Exit system, t	then shut down device.

Logout: exit menu, you need to provide password again when entering the menu next time.

Shut down machine: logout system turns off power

Restart system: system begins rebooting.

Switch: switch users

When push the power switch button, will appear a confirmation progress bar, shut down 3 seconds after, can been cancelled during progress.

You have to input password to exit

4.2.5 System Information



1. HDD Information

Here is to list hard disk type, total space, free space, video start time and status

Note:

Please remove the broken hard disk before you add a new one.

Once there is a hard disk confliction, please check hard disk time and system time is the same or not. Please go to setting then general to modify system time. At last, reboot the system to solve this problem.

Note: \circ means current HDD is normal. X means there is error. - means there is no HDD. Please remove the broken hard disk before you add anew one. If disk is damaged, system shows as "?"

After system start, if there is conflict, will jump to HDD information page immediately, user can check the system time and HDD time, If conflict please enter normal setup to modify system time, or enter advanced HDD management to format HDD, then restart device.

	(-				j	IDI	0 Information	n
SAT	A 1	2	3	4	5	6	7	8	
		0							
1*			٦	Гур	е		•	Total Space	Free Space
All								465.74 GB	460.23 GB
1*		Rea	ιdΛ	Writ	le			465.74 GB	460.23 GB
₽	age	Up		Pa	ge	Do	wn		View recording time

HDD array according to SATA interface sequence. For example, SATA1 HDD in the first, SATA2 HDD in the last.

2. BPS

Here is for you to view current video data stream (KB/s) and occupied hard disk storage

(MB/h)

	-	В	PS	
Channel	Kb/S	MB/H	Wave	
1	16	4		
2	22	5		
3	19	5		
4	19	5		
5	22	5		
	13	3		
7	13	3		
	19	5		
	22	5		
10	19	6		
11	19	6		
12	14	5		
13	14	4		
14	14	5		
15	14	5		
16	14	5		
				Ľ

3. Log

Here is for you to view system log file. System lists the following information.

Log types include system operation, configuration operation, data management, alarm event, record operation, log clear and etc.

Pleased select start time and end time, then click search button. You can view the log files. Please page up/down button to view if there are more than ten files.

		-	_		Log	-		
Туре		All			▼]			
Start Tir	ne	2010	- 01 -	13	00:00:00			
End Tin	ne	2010	- 01 -	14	00:00:00		Search	
50	L	.og Tir	ne		Event			
42	10.	01-13	14:00:1	10	Save General Config!			
43	10	01-13	14:01:3	32	Save General Config!			
44	10.	01-13	14:11:5	54	<admin>User Logout</admin>			
45	10.	01-13	14:38:1	15	<admin>User Login</admin>			
46	10.	01-13	14:38:1	19	REC Closed:1259			
47	10.	01-13	14:51:6	59	<admin>User Logout</admin>			
48	10	01-13	19:37:0)4	<admin>User Login</admin>			
49	10	01-13	19:57:2	20	<admin>User Logout</admin>			
50	10	01-13	19:59:0	98	<admin>User Login</admin>			-
⊳ Page	e Up	o t∉ P	age Do	w	n		Clear	Ď

4. Version

Display system hardware's feature, software version and issue date etc.

	Version
Channels	16
Alarm In	16
Alarm Out	4
System	16CH-DVR.3.1.P03
Release Date	2009-12-07 18:59:59
Inner	16CH-DVR:3.1:10:4:11:4

4.3 Control function

4.3.1 Record control

There are two ways for you to go to manual record menu.

Right click mouse or in the main menu, Advanced->Manual Record.

In live viewing mode, click record button in the front panel or record button in the remote control



There are three statuses: schedule/manual/stop. Highlight icon"o" to select corresponding channel.

- 1. Manual: the highest priority. After manual setup, all selected channels will begin ordinary recording.
- Schedule: channel records as you have set in recording setup (Main Menu->Setting->Schedule)
- 3. Stop: all channels stop recording.

Enable all channel recording: system enable all channel recording

Stop all channel recording: System stops all channel recording

Enable/disable record

Please check current channel status: "o" means it is not in recording status, "•" means it is in recording status.

You can use mouse or direction key to highlight channel number.

Enable all channel recording

Highlight \circ below All, you can enable all channel recording.

All channel schedule record

Please highlight "ALL" after "Schedule".

When system is in schedule recording, all channels will record as you have previously set (Main menu->Setting->Schedule).

The corresponding indication light in front panel will turn on



All channel manual record

Please highlight "ALL" after "Manual.".

When system is in manual recording, all scheduled set up you have set in will be null

((Main menu->Setting->Schedule)).

You can see indication light in front panel turns on, system begins manual record now.



Stop all channel recording

Please highlight "ALL" after "Stop".

System stops all channel recording no matter what mode you have set in the menu (Main

menu->Setting->Schedule)

Record Control																	
Record Mode	All	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Schedule																	
Manual																	
Stop	٠				0	0	•			•							
			(ЭK			(Can	cel								

4.3.2 PTZ control

Note: The protocols not supported will be displayed in grey color.

Here you can set the following items: Step, Speed, Zoom, Focus, Iris, Presets, Patrol,

Pattern, Line Scan, AGC, BLC, etc.

Hide PTZ menu by double click the menu title.

Click Pan/Tilt/Zoom, the interface is shown as below,



Speed: mainly to control direction. For example, step 8 is much faster than step 1. (Input the number 1~8 by mouse click or front panel, 8 is the biggest)

Click icon zoom, focus, iris, and and to adjust zoom, focus and iris Please click direction arrows to adjust PTZ position. There are total 8 direction arrows, up, down, left, right, left-up, right-up, left-down, right-down respectively. (up, down, left, right only when using front panel)

Name	Function key	function	Shortcut key	Function key	function	Shortcut Key
Zoom		Near	►	►	Far	
Focus		Near	4	4	Far	•
Iris	8	close	м	М	Open	Н

Click the "set" button. The interface is shown as below. (shortcut key: video key "•") . Here you can set the following items: Preset, Tour, Pattern, and Border.



The function in figure 2 mainly according to protocols. If not support will be displayed as gray, right click mouse or press ESC key on the front panel back to figure 1.

Patrol setup (Tour Setup)

Click patrol button. The interface is shown as below. Input preset number and add this preset to a patrol (tour). For each patrol (tour), you can input max 80 presets.

Activate Patrol (tour)

Input patrol (tour) number in the No. blank and click patrol button

No.	0	Preset
Pa	ittern	Tour
Aut	oScan	AutoPan
F	Flip	Reset
Nex	t Page	

Pattern Setup

Click pattern button and then click "begin" button. The interface is shown as below.

Then you can modify zoom, focus, iris and direction.

Click "end" button. You can memorize all these operations as pattern 1.

Input mode value in the No. blank, and click pattern button.

Auto Scan Setup

Click border button. Use direction arrows to select camera left limit Then please click left limit button Repeat the above procedures to set right limit.

Function	Pattern	1
Preset	Patrol No	
Tour	r diferrider	6
Pattern	Left	
Border	Right	i.

Activate Auto Scan

Click "Auto Scan" button, the system begins auto scan. Correspondingly, the auto scan button becomes to stop button. Click stop button to terminate scan operation.

[Horizontal rotation] Enter the page as shows on Figure 5-65, click the button to turn the

camera rotate horizontally (compare with the present position).

(P1	Z.	-
Direct Au	х Оре	r	
Light	•	On	Off
Aux Num	Oper		
1		On	Off
Next Pa	ige		

Note: Preset, tour and pattern all need the value to be the control parameter. You can define it as you require. You need to refer to your speed dome user's manual for Aux definition. In some cases, it can be used for special process.

4.3.3 Color Setting

According to time period, set hue, brightness, contrast, saturation and AGC, range is0 \sim 100, default is 50

	_	Color sett	ing	
Period 🛄	00:00 - 2	24:00	00:00 -	24:00
Hue	c	5 0	·	50
Brightness	c	50	·	50
Contrast	c	50	·	50
Saturation	c	50	·	50
	Default) (O K) (Cancel)	

Note: A consecutive time period is necessary, furthermore, two time periods should not overlap with each other and must equal to 24 hours totally. For instance, $(08: 00 \sim 8: 00)$ or $(08: 00 \sim 18: 00; 18: 00 \sim 08: 00)$. Otherwise the setting will not be saved.

4.3.4 Video display Split

View 1: you can select a channel to display

SYSTEM MENU	
Main Menu	CAM 1
Record Playback	CAM 2
Record Control	CAM 3
Record Backup	CAM 4
Afarm Output	CAM 5
Pan/Tilt/Zoom	CAM 6
Color Setting	CAM 7
TV Adjust	CAM 8
Logout	CAM 9
View 1	CAM 10
View 4	CAM 11
View 8 >	CAM 12
View 16	CAM 13
t terrende	CAM 14
Uninute	CAM 15
CAM 14 📍 C	CAM 16

View 4: you can select 4-channel display as 1-4 or 5-8 channels

SYSTEM MENU Main Menu Record Playback Record Control Record Backup Alarm Output Pan/Tilt/Zoom Color Setting TV Adjust		AM 7 ?	
View 1	×	AM 11 📍	
View 4	E	CAM 1-4	
View 8 💦	¥	CAM 5-8	
View 16		CAM 9-12	
Unmute		CAM 13-16	

View 8: you can select 8-channel display



View16: you can select 16-channel display

SYSTEM MENU	
Main Menu	
Record Playback	
Record Control	
Record Backup	
Alarm Output	
Pan/Tilt/Zoom	
Color Setting	
TV Adjust	
Logout	
View 1	Þ
View 4	ŀ
View 8	×
View 16	
Unmute 7	

5 Overview of Navigation and Controls

5.1.1 System Boot up

Connect the power supply, press switcher on backside panel, indicator light up and DVR boot up. Default display mode is multiple picture output

System will start record video if set at schedule record mode, and the record channel indicator light up.

5.1.2 Login

When the system boots up, Click Enter or left click mouse, you can see the login interface.

There are 2 default users: "admin" "guest".

"admin" users have administrator right. The default password is "123456" for all 2 default users' account. "guest" user only can review playback and backup.

No.	Shut Down
Shutdown	•
Exit system,	then shut down device.
OK	Cancel

Password protection: you can input password 5 times within 30 minutes, otherwise the account will be locked.

For your system security, please modify you password after first login.

You can use USB mouse, front panel, remote controller or keyboard to input. About input method: Click **123** to switch between numeral, English character (small/capitalized) and Chinese

5.1.3 System Shutdown

Note: Power off system before change the HDD.

Method 1: Press the POWER button at the front over 3sec to stop the disc video recorder, then shut the power off at the rear panel.

Method 2: System menu -> Shut down the system

Method 3: System menu -> Main menu ->Management tools -> Shut down the system.

Preview

Enter into "Preview" menu, you can setup date and time according to "General Setting", or setup the channel name according to "Output Mode"

1	0	The logo displayed on the screen when recording	2	<mark>./</mark> w	The logo displayed on the screen when motion detection
3	?	The logo displayed on the screen when video lost occur	4		The logo displayed on the screen when camera masking occur

5.1.4 Auto Resume after Power Failure

The system can automatically backup video and resume previous working status after power failure.

5.1.5 Replace Button Battery

Please make sure to use the same battery model if possible.

We recommend replace battery regularly (such as one-year) to guarantee system time accuracy

6 WEB CLIENT OPERATION

6.1 IE Browser Setup

Please make sure your PC installed Microsoft Internet Explorer 6.0, and DirectX 9.0 or higher version.,

Note: Please turn off the Firewall and Antivirus Software if necessary. When log in the DVR first time, if all the functions run properly, in this case you could set the Security as default level.

6.2 Login

This chapter mainly introduces DVR's Web client-end operation.

Open IE and input DVR address in the address column. For example, if your DVR IP is <u>192.168.1.108</u>, then please input http://<u>192.168.1.108</u> in IE address column...

DVR	Web Service	
user name:	admin	
password:	•••••	
language:	Enalish 💌	login
	Save Password	

System pops up warning information to ask you whether install webrec.cab control or not. Please click yes button Please input your user name and password.

Default factory name is admin and password is 123456

Note: For security reasons, please modify your password after you first login Please check the following items:

- 6.1 Network connection is right
- 6.2 DVR and PC network setup is right. IP address, Subnet Mask, Gateway, Please refer to network setup(main menu->setting->network)

3, Use order ping ***.***.***(* DVR IP address) to check connection is OK or not. TTL value 64

4. Web OCX will be downloading and install automatically, when update a new OCX, old

version OCX should be uninstalled

System can automatically download latest web control and the new version can overwrite the previous one.

WEB client review interface

After you logged in, you can see the main window, double click the channel number in the right side tree structure, when the icon becomes a small camera, you can review this channel.



6.3 Toolbar

There are few function buttons in the toolbar, at upside and downside



6.4 Preview window switch





- : 6-channel display;
- : 8-channel display;
- : 9-channel display;
- : 13-channel display;
- : 16-channel display;
- 20 : 20-channel display;
- 25 : 25-channel display;
- **36** : 36-channel display.

6.5 Review the channel

Double click the channel number in the right side tree structure, when the icon become a small camera, you can review this channel.





Review

Review toolbar in the up-right side of channel, shown as below ***** • • • *,

R: Capture picture. You can snapshoot important video. All images are memorized in folder C:\RC\;

■: Local record. When you click local record button, the system begins recording and this button becomes highlighted, all videos are memorized in folder C:\RC\;





6.6 PTZ control function

WEB client's PTZ function:



- Direction Key: 8 direction keys, Click and holding for continuous control.
- Step Speed: Control PTZ speed and patrol speed.
- Zoom: adjust and control PTZ zoom
- Focus: adjust and control PTZ focus
- Iris: adjust and control PTZ iris.
- Presets: Call preset after set preset value
- Pattern: you can input pattern value and then click start record button to begin PTZ movement.
- Flip: control PTZ camera to start vertical flip
- Auto Scan: control PTZ camera to start auto scan
- Auto tour: input auto tour value and preset value. Click add button, you have added one preset in the tour
- PTZ: Auto scan, Tour, Pattern, Present settings

ptz config			X
ine scan	set left border	set right border	
preset	add	delete	
auto tour	add	delete	delete tour
mode	start record	stop record	delete

Click PTZ setup button you can see the following interface

- Click the PTZ camera channel, move the camera to you desired location and then click left limit button. Then move the camera again and then click right limit button to set a right limit. Now you have set one auto scan
- Click the PTZ camera channel, move the camera to your desired location and then input preset value. Click add button, you have set one preset. You can click to set one preset, or delete one preset
- Click the PTZ camera channel, input auto tour value and preset value. Click add button, you have added one preset in the tour. Repeat the above procedures you can add more presets in one tour.

6.7 Color setting

Set hue, brightness, contrast, saturation and AGC





6.8 Other setting



snapshot: Snapshot, and path: C:\RC\
record path: Record path: C:\RC\
reboot: Restart the device
record size: Set file size

7 WEB CLIENT Configure

7.1 System Info

In the main window, click config button, you can see an interface is shown as

Config			
ControlPanel		VersionInfo	
	Item SerialNumber VideoPort I/O AudioPort I/O NetPort RS232 ParallelPort SoftwareVersion	Info ce:18:24:bf:35:13 16/1 0/1 16/4 1 0 16CH-DVR.3.1.P03,Build:2009-12-7	
Control			Refresh

- System Information: Click device configuration button, you can see the following interface, Hardware version, HDD information, Interface, Log inquiry.
- Setting: Setting includes the following items: General, Encode setup, Schedule, RS232, Network, MUL-DDNS, FTP, Alarm setup, Detect, Pan/Tilt/Zoom, Tool Advanced: set DVR's record, auto maintenance

7.2 System Setting

7.2.1 General

General interface is shown as below.;

Config							×
ControlPanel			Commor	Setting			7
E 🕤 SystemInfo							
VersionInfo	SystemTime	2010- 1-13	▼ 23:01:38	÷.	Save time	SyncPC	
			_ ,				
E 🔊 SystemSetting							
	DateFormat	Year Month Da	У	-			
	DateSplit	-		-			
SerialPortSetting	TimeFormat	24Hours		-			
🗉 🎸 NetSetting	OpDiskEull	OverWrite		-			
- 🧭 MailSetting	Language and	English					
DNSSetting	Language						
	SerialNumber	8					
PPPOESetting	VideoFormat	PAL		-			
- 🤣 PTZSetting					Save	Refresh	
VideoDetect							
- 🤣 AlarmOut							
C ExceptionDeal							
Control							
- 🤣 UserAccount							

- System time: Here is for you to modify system time. Please click Save after your modification
- Data format: Here you can select data format from the dropdown list.
- Data separator: Please select separator such as or /.
- Time format: there are two options: 24-H and 12-H.
- HDD full: there are two options: stop recording or overwrite the previous files when HDD is full.
- Pack duration: Here you can select file size. Default setup is 60 minutes.
- Device No.: when you are using one remote control to manage multiple DVRs, you can give these DVRs serial numbers respectively. Click address button in your remote control and then input the correct device number, now you can control the DVR now.
- Video standard: PAL. (for your reference only)

7.2.2 Encode

Config				
🔎 ControlPanel		CodeS	ietting	
🖃 🚹 SystemInfo	Channel	Channel1 🔻	ChannelName	CAM 1
VersionInfo				
DiskInto	CodeMode	H264 💌	ExtendBitStream	ExtendBitStream 💌
SystemSetting	Enable	Video	Enable	☐ Video
CommonSetting	ImageSize	CIF	ImageSize	QCIF
	FrameRate(FPS)	25 💌	FrameRate(FPS)	25 💌
SerialPortSetting	BitRateControl	VariableBitRate 💌	BitRateControl	LimitBitRate
MailSetting	ImageQuality	Good		
DDNSSetting	BitRateValue	Custom 💌 500	BitRateValue	384 💌
UPNPSetting	CommendBitRate	192~1024Kbps	CommendBitRate	48~256Kbps
	IFrameSpan	4 2~12	IFrameSpan	4 2~12
Config/Default	ImageColor	Setting		
AlarmInput	Calica			
AlarmOut	RegionSplice	Never	Setting	
AdvanceOption	TimeTitle	Setting	ChannelTitle	Setting
	Сору		Save	Refresh

Encode setup includes the following items

- Channel: Here is for you to select a channel.
- Compression: H.264;
- Data stream: Regular and extra data stream;
- AV enable: Video/Audio. System only displays video by default. You need to manually enable audio function
- Resolution: CIF / QCIF
- Differentiating rate: stocking differentiating rate's type is CIF or QCIF;
- Bit rate: There are two options: CBR and VBR. You can only set video quality in VBR mode, 10Kb/s-4096Kb/s variable
- Frame rate: The value ranges from 1f/s to 25f/s (PAL) and 1f/s to 30f/s (NTSC)
- Bit rate number: set bit rate according to web status, 10kb/s-4096kb/s adjustable;
- Frame interval: can set 1 frame, 2-12 optional.
- Image control: brightness, contrast, color, saturation and AGC for selected channel;
- OSD Overlay: time, date, title overlay.
- Click "copy" as following chart showing:

7.2.3 Schedule

Schedule includes the following interface

When DVR boots up, it is in 24-hour continuous record. In this interface you can set record type, record time and period. Record type includes regular record(R), motion detection record (M) and alarm record (A).

• Channel: select the channel number you desire.

- Week: you can select from the dropdown list. Or you can select at the bottom of the interface.
- Prerecord: system can record the three to five seconds video before activating the record operation into the file.(Depends on data size)
- Period: There are six periods for you to set. Please click set button of the corresponding period. Please note all the setup here shall be in one day. E.g. 00.00 to 24.00.

7.2.4 Tip

After you finished setup for one channel, you can click "save as" button, system pops up the following interface. Now you can copy one channel setup to other channels.;



7.2.5 RS2332

Config			
🥬 ControlPanel		NetSett	ing
SystemInfo VersionInfo VersionInfo Volume Log SystemSetting CondeSetting CodeSetting	NetSetting IPAddress SubnetMask Gateway	ethernet 1 Image: 192 + 168 + 1 + 108 192 + 168 + 1 + 108 255 + 255 + 0 192 + 168 + 1 + 1 1	DHCP MACAddress ce:18:24:bf:35:13
RecordSetting SerialPortSetting VetSetting MailSetting	DeviceName TCPPort	DVR 34567 HTTPPort	80
- 10 DNSSetting - 10 DDNSSetting - 10 UPNPSetting	UDPPort	37778 NetUserNumber ImageQualityfirst	10 HighSpeedDown
 PPPOESetting PTZSetting Config/Default AlarmFunction AlarmFunction AlarmOut AlarmOut ExceptionDeal AdvanceOption DiskManage Upgrade Upgrade UserAccount AutoMaintenance 			Save Refresh

RS232 includes the following items.

- Function: There are various devices for you to select. Console is for serial port or min-end platform to upgrade program. Keyboard is for you to use special keyboard to control current device.
- Baud rate: Please select as you desire.
- Data bit: The value ranges from 5 to 8.
- Stop bit: There are three options: 1/1.5/2.
- Parity: There are three options: none/odd /even.

7.2.5 Network

Network interface is shown as below.

This interface includes the following items;

Config			
🖉 ControlPanel		MailSetting	
🖻 🔒 SystemInfo			
VersionInfo	SMTPServer	MailServer	Enable
- 🅜 DiskInfo		·	
- 🧑 Log	Port	25 0~65500	
🖃 D SystemSetting			
CommonSetting		SSL 55L	
- 🌮 CodeSetting			
- 🌮 RecordSetting	Name		
- 🌮 SerialPortSetting	Deserved		
🖃 🌮 NetSetting	Password		
- 🏀 MailSetting	SendPoint		
🤣 DNSSetting	Jenurollic		
💞 DDNSSetting	MailTittle	DVR ALARM	
UPNPSetting	1 Marticeo		
PPPOESetting	ReceiveAddress		
PTZSetting		1	
Config/Default			
AlarmFunction			
🤣 AlarmInput			
VideoDetect			
AlarmOut			
ExceptionDeal			
AdvanceOption		Save Refresh	
Diskmanage			

- DNS: Set DNS and backup DNS address
- DDNS: Set DDNS type, Domain name, User name, Password;

Config		X
🔑 ControlPanel		DNSSetting
🕞 🕤 SystemInfo	DNS	
- 🧭 VersionInfo		
- 🧭 DiskInfo	21/2	
🙋 Log	DNS	0.0.0.0
E SystemSetting		
CommonSetting	BackDNS	0.0.0.0
CodeSetting		
2 RecordSetting		
E VetSetting		
MailSetting		
DNSSetting		Cours Defineth
		Save Rerresh
UPNPSetting		
PPPOESetting		
VideoDetect		
ExceptionDeal		
C Ungrade		
UserAccount		
AutoMaintenance		

• UPNP: Set UPNP, Web Port, TCP Port

Config			
Config ControlPanel SystemInfo DiskInfo DiskInfo DiskInfo DiskInfo DiskInfo DiskInfo DiskInfo CommonSetting CondeSetting CondeSetting CondeSetting DisSetting D	UPNP WebPort TcpPort	UPNPSetting	

• PPPoE: Set PPPoE User name, password, and IP address

Config		
🖉 ControlPanel		PPPOESetting
SystemInfo	🔲 Enable	
DiskInfo	Name	
CommonSetting	Password	
RecordSetting SerialPortSetting	IP 0.0	. 0 . 0
O NetSetting MailSetting	Sa	/e Refresh
ONSSetting ODNSSetting ODNSSetting		
PPPOESetting		
Config/Default		
VideoDetect		
AlarmOut		
AdvanceOption		

 PTZ: Set PTZ channel, protocols, bitrate, stop bit, data bit, varity, Default: PELCOD,1,9600,8,1,

Config				X
		PT	ZSetting	
SystemInfo	Channel	Channel 1	•	
DiskInfo	Protocal	PELCOD	•	
SystemSetting	Address	1 0~25	5	
CodeSetting	Baudrate	9600	•	
SerialPortSetting	DataBit	8	•	
Ø NetSetting Ø MailSetting	StopBit	1	•	
DNSSetting DDNSSetting	Verify	NoVerify	-	
UPNPSetting				
PTZSetting				
Conrig/Derault AlarmFunction				
🧭 AlarmInput				
VideoDetect				
ExceptionDeal				
🖻 📓 AdvanceOption	Сору		Save	Refresh
DiskManage				
RecordControl				
UserAccount				
🧼 🌮 AutoMaintenance				

Reset to default: Reset selected functions to default

Config				X
🖉 ControlPanel		Config/Default		
SystemInfo	Please select restore item		Default	
 Log SystemSetting CommonSetting CodeSetting RecordSetting SerialPortSetting NetSetting MetSetting 	□ DefaultAll	AlarmSetting RecordSetting DynamicDetect SerialPortSetting	User NameSetting User NatSetting AlarmSetting PTZSetting	
DNSSetting DNSSetting UPNPSetting PPPOESetting		CutputMode	ChannelName	
Connopteration AlarmFunction AlarmInput AlarmInput AlarmOut Control	OutConfig Out InConfig			
AdvanceOption Option DiskManage Opgrade RecordControl UserAccount OutbulkInterpace	In			

7.3 Alarm

Config		$\mathbf{\times}$
ControlPanel	AlarmInput	
SystemInfo	EventType LocalInput	
- 2 Log - 2 SystemSetting - 2 CommonSetting	Alarminput Input 01 💌 🔽 Enable Type Open 💌	
CodeSetting	TimeSpan Setting ClearTwitter 0 Second 0~600	
Contained Containing Containing Containing Containing Containing Containing	Image: AlarmOutput 1 2 3 4 OutputDelay 10 Second 10~300	
DNSSetting		
PPPOESetting	RecordChannel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
PTZSetting	Recordbelay 10 Second 10.500	
	PTZAction Setting	
- C AlarmInput	PollChannel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
VideoDetect	V BeepAlarm	
ExceptionDeal		
🤣 DiskManage		
	Copy Save Refresh	

Alarm in: Select corresponding alarm in channel

Video Detect: Set video detection area, latch, output channel, PTZ, Buzzer.

Config		X
Difference ControlPanel	VideoDetect	-
SystemInfo	EventType MotionDetect	
DiskInfo DiskInfo DiskInfo	Channel Channel 1 💌 🔽 Enable Sensity highest 💌	
 SystemSetting CommonSetting 	Region Setting	
CodeSetting	TimeSpan Setting ClearTwitter 0 Second 0~600	
VerialPortSetting	AlarmOutput 1 2 3 4 OutputDelay 10 Second 10~300	
MailSetting ONSSetting ODNSSetting	✓ ScreenPrompt	
C UPNPSetting	RecordChannel 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
PTZSetting	RecordDelay 10 Second 10~300	
Config/Default	PTZAction Setting	
VideoDetect	Policialment 1 2 0 1 0 0 1 0 0 1 2 2 2 2 2 2 2 2 2 2	
← CxceptionDeal		
DiskManage	Save Defrech	
	Сору	
AutoMaintenance		

Alarm output: select alarm activation channel when alarm occurs.

Config		X
	AlarmOut	1
🗄 🔒 SystemInfo	_ ÅlarmOutput	
VersionInfo	The most pace	
	AlarmMode All 1 2 3 4	
🖻 D SystemSetting	Config @ @ @ @ @	
CommonSetting		
CodeSetting	flore C C C C C	
RecordSetting		
	Status	
E V NetSetting		
MailSetting		
	Save Refresh	
PT7Setting		
Config/Default		
AlarmInput		
VideoDetect		
AlarmOut		
C ExceptionDeal		
🗄 📸 AdvanceOption		
🤣 DiskManage		
🧼 🖉 Upgrade		
RecordControl		
UserAccount		
		1

Exception Deal: Event type: no disk space, hard disk error, Not enough space, network failure ,IP address conflict, Buzzer, send e-mail

Config		X		
🦻 ControlPanel	ExceptionDeal			
🖃 🚹 SystemInfo				
VersionInfo				
DiskInto				
RecordSetting				
- 🌮 SerialPortSetting	Alamontaria La La DutrutDelay to Second 10x300			
🖃 🌮 NetSetting				
- 🧭 MailSetting	ScreenPrompt SendMail			
DNSSetting				
DDNSSetting				
PTZSetting				
Config/Default				
E 🕘 AlarmFunction				
- 🤣 AlarmInput				
VideoDetect				
AlarmOut				
	V BeepAlarm			
Upgrade	Save Refresh			
- 🌮 RecordControl				
🤣 UserAccount				
🗸 🧭 AutoMaintenance		_		

7.4 Advanced

set DVR's record, Read, Write, auto maintenance.

Disk Manage: Set HDD as Read, Write, Read-only, Reduncey, Erase the data,

Restore

Config		×			
🖉 ControlPanel	DiskManage				
 ControlPanel SystemInfo VersionInfo UskInfo DiskInfo DiskInfo CommonSetting CodeSetting CodeSetting RecordSetting MaiSetting MaiSetting MaiSetting MaiSetting DisSetting DisSetting DisSetting DisSetting PPOESetting PTZSetting AlarmFunction AlarmInput VideoDetect AlarmOut ExceptionDeal AdvanceOption DisRecondControl UserAccount AutoMaintenance 	DiskManage DiskManage C SetRW SetR SetRedundance C ClearData C CrrorRestore ControlDisk				

Upgrade: Select update file to upgrade the DVR;

Config	X
Contrig ControlPanel SystemInfo VersionInfo DiskInfo Log DiskInfo CodeSetting CodeSetting CodeSetting CodeSetting CodeSetting CodeSetting NetSetting NetSetting DINSSetting DINSSetting DINSSetting PPOESetting PTZSetting PTZSetting PTZSetting Config/Default AlarmFunction AlarmFunction Config/Default AlarmPut Config/Default AlarmOut Config/Default AlarmOut Config/Default AlarmOut Config/Default C	Upgrade SelectUpgradeFile Upgrade

Config			2	<
			RecordControl	
SystemInfo	RecordCon	trol —		
- 2 DiskInfo 2 Log	Mode	All	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
E SystemSetting	Config	C	000000000000000000000000000000000000000	
CommonSetting	Always	С		
RecordSetting	Close	۲		
Scharbic Setting Walsetting ONSSetting ONSSetting ONSSetting			SaveRefresh	
UPNPSetting				
Config/Default				
- 🤣 AlarmInput				
VideoDetect				
🤣 DiskManage				
- C Upgrade				

Record Control : Set record status: Schedule / Manual / Stop

7.4.1 User Account

User Account: Management user account, adding users, modity users, password, group.

Config		×
Config	UserAccount admin admin (Repeat) user guest(Repeat) Delete User Modify Password Add Group Modify Group Delete Group	
O DiskManage O DiskManage O Upgrade O RecordControl O UserAccount AutoMaintenance	Refresh	

Auto Maintenance, Reboot, auto delete old file

Addenda A Specification

Model	VR9304FC-01F	VR9304FC-01	VR9301AD-01		
Main Processor	High Performance Embedded Microprocessor				
Operation System	Embedded Linux				
Signal System	PAL/NTSC				
System Resource	Recording, Playback, Remote access				
Operation	support Mouse, Front Panel, support Mouse, Remote				
Video Split	1 / 4Split Display 1 Split Displ				
Video Resolution	D1				
Video	D1		D4		
Playback	, ווט	D1			
Bit Rate control	Support dual Bit R	Support dual Bit Rate, variable bit rate/ Constants Bit Rate optional			
Image Control		6 Levels			
	PAL: 25fps(CIF)/channel,	NTSC: 30fps(CIF)/channel	PAL: 25fps(CIF)/channel,		
Recording Speed	model1: 1D1+3CIF realtime	/ model 2: non-realtime D1	NTSC:		
Motion Detection	Configurable detection areas (22×18 blocks) and Sensitivity				
Audio		G.711			
Recording Priority	Manual > Alarm > Motion Detection > Schedule				
Local Playback	Support 2 channel real time playback Support 1 channel rea				
Playback Search	Date, Time, Events, Channels				
Video Storage		Local HDD			
Backup Mode	USB storage				
Video Input	4 channel BNC 1 channel BNC				
Video Output	1 channel BN	1 channel BNC,1 channel VGA(800*600/1024*768 optional)			
Audio Line Input	4 channel RCA 1 channel RCA				
Voice talk input		1 channel RCA			
Audio Line Output	1 channel RCA				
Alarm Input		1 channel			
Alarm Output		1 channel relay output			
Alarm Relay		30V DC 2A, 125V AC 1A			
Ethernet Interface	10BaseT/100BaseTX, RJ45				
PTZ Interface		RS485			
USB Interface	1 x USB1.1 (For mouse), 1 x USB2.0 (For storage device)				
HDD	1 x SATA				
Power Supply	DC 12V±10%				
Power	<15W (HDD not included)				
Working	-10℃~ +55℃				
Working Humidity	10%~90% RH				
Atmosphere	86kpa~106kpa				
Dimension	314(L) x 230(W) x 57(H)mm				
Weight	1.66Kg (HDD not included)				
Mounting	Desktop Mount				

VR9300 DVR Specification

VR9400 DVR Specification

Model	VR9404H1-01			
Main Processor	High Performance Embedded Microprocessor			
Operation System	Embedded Linux			
Signal System	PAL/NTSC			
System Resource	Recording, Playback, Remote access			
Operation	16 hit True Color CIII, support Mouse, Front Banel, IB Bamete, On serven many ting			
Interface	Tobit The Color Gol, support mouse, Front Faller, in Remote, On-screen mend tips			
Video Split	1 / 4Split Display			
Video Resolution	D1			
Video				
Playback	CIF			
Video	H.264 (Variable)			
Image Control	6 Levels			
Recording Speed	PAL: 25fps(CIF)/channel, NTSC: 30fps(CIF)/channel			
Motion Detection	Configurable detection areas (22×18 blocks) and Sensitivity			
Audio	G.711			
Recording Priority	Manual > Alarm > Motion Detection > Schedule			
Local Playback	2 channel real time playback			
Playback Search	Date, Time, Events, Channels			
Video Storage	Local HDD			
Backup Mode	USB storage, HDD redundancy			
Video Input	4 channel BNC			
Video Output	1 channel BNC,1 channel VGA			
Audio Line Input	4 channel BNC			
Audio Line Output	1 channel BNC			
Alarm Input	4 channel			
Alarm Output	1 channel relay output			
Alarm Relay	30V DC 2A, 125V AC 1A			
Ethernet Interface	10BaseT/100BaseTX, RJ45			
PTZ Interface	RS485			
USB Interface	1 x USB1.1 (For mouse), 1 x USB2.0 (For storage device)			
HDD	1 x SATA			
Power Supply	DC 12V±10%			
Power	<15W (HDD not included)			
Working	-10℃~ +55℃			
Working Humidity	10%~90% RH			
Atmosphere	86kpa~106kpa			
Dimension	314(L) x 230(W) x 57(H)mm			
Weight	1.66Kg (HDD not included)			
Mounting	Desktop Mount			
Model	VR9504HD-1U	VR9508H-1U	VR9516HA1-1U	
---------------------	---	------------------------	-----------------------------	--
Main Processor	High Performance Embedded Microprocessor			
Operation System	Embedded Linux			
Signal System	PAL/NTSC			
System Resource	Recording, Playback, Remote access			
Operation Interface	support Mouse, Front Panel, Remote			
Video Split	1 / 4Split Display	1 / 4 / 8Split Display	1 / 4 / 8 / 16Split Display	
Video Resolution	D1			
Video Plavback				
Resolution	D1	C	IF	
Bit Rate control	Support dual Bit Rate, variable bit rate/ Constants Bit Rate optional			
Image Control	6 Levels			
Recording Speed	PAL: 25fps(CIF)/channel, NTSC: 30fps(CIF)/channel			
Motion Detection	Configurable detection areas (22×18 blocks) and Sensitivity			
Audio Compression	G.7	711	N/A	
Recording Priority	Manual > Alarm > Motion Detection > Schedule			
Local Playback	Support 2 channel real time playback			
Playback Search	Date, Time, Events, Channels			
Video Storage	Local HDD			
Backup Mode	USB storage, HDD redundancy			
Video Input	4 channel BNC	8 channel BNC	16 channel BNC	
Video Output	1 channel BNC,1 channel VGA			
Audio Line Input	4 channel BNC	8 channel BNC	N/A	
Audio Line Output	1 channel BNC		N/A	
Alarm Input	4 channel	8 channel	16 channel	
Alarm Output	1 channel relay output	2 channel relay output	4 channel relay output	
Ethernet Interface	10BaseT/100BaseTX, RJ45			
PTZ Interface	1×RS485			
USB Interface	1 x USB1.1 (For mouse), 1 x USB2.0 (For storage device)			
HDD	2 x SATA			
Power Supply	AC110~230V 50Hz/60Hz DC12V			
Power Consumption	<15W (HDD not included)			
Working Temperature	-10℃~ +55℃			
Working Humidity	10%~90% RH			
Atmosphere Pressure	86kpa~106kpa			
Dimension	440(L) x340(W) x 50(H)mm			
Weight	4.2Kg (HDD not included)			
Mounting	Rack Mount, Desktop Mount			

VR9600 DVR Specification

Model	VR9616FCS-2U	
Main Processor	High Performance Embedded Microprocessor	
Operation System	Embedded Linux	
Signal System	PAL/NTSC	
System Resource	Recording, Playback, Remote access	
Operation Interface	support Mouse, Front Panel, Remote	
Video Split	1 / 4/8/16 Split Display	
Video Resolution	D1	
Video Playback	CIF	
Bit Rate control	Support dual Bit Rate, variable bit rate/ Constants Bit Rate optional	
Image Control	6 Levels	
Recording Speed	PAL: 25fps(CIF)/channel, NTSC: 30fps(CIF)/channel	
Motion Detection	Configurable detection areas (22×18 blocks) and Sensitivity	
Audio Compression	G.711	
Recording Priority	Manual > Alarm > Motion Detection > Schedule	
Local Playback	Support 2 channel real time playback	
Playback Search	Date, Time, Events, Channels	
Video Storage	Local HDD	
Backup Mode	USB storage, HDD redundancy, DVD burner	
Video Input	16 channel BNC	
Video Output	1 channel BNC,1 channel VGA	
Video Loop-out	16 channel BNC	
Audio Line Input	4 channel BNC	
Audio Line Output	1 channel BNC	
Alarm Input	16 channel	
Alarm Output	4 channel relay output	
Alarm Relay Output	30V DC 2A, 125V AC 1A	
Ethernet Interface	10BaseT/100BaseTX, RJ45	
PTZ Interface	1×RS485	
USB Interface	1 x USB1.1 (For mouse), 1 x USB2.0 (For storage device)	
HDD	4 x SATA	
Power Supply	AC110~230V 50Hz/60Hz	
Power Consumption	<16W (HDD not included)	
Working Temperature	-10℃~ +55℃	
Working Humidity	10%~90% RH	
Atmosphere Pressure	86kpa~106kpa	
Dimension	440(L) x460(W) x89(H)mm	
Weight	4.2Kg (HDD not included)	
Mounting	Rack Mount, Desktop Mount	

Addenda B FAQ

1. DVR cannot boot up properly.

There are following possibilities:

- Input power is not correct.
- Power connection is not correct.
- Power switch button is damaged.
- Program upgrade is wrong.
- HDD malfunction or something wrong with HDD ribbon.
- Front panel error.
- Main board is damaged.

2. Remote control does not work.

There are following possibilities:

- Remote control address is not correct.
- Distance is too far or control angle is too small.
- Remote control battery power is low
- Remote control is damaged or DVR front panel is damaged.
- Check if the system is lockup, login again

3. DVR often automatically shuts down or stop running.

There are following possibilities:

- Input voltage is not stable or it is too low.
- HDD malfunction or something wrong wit the ribbon.
- Button power is not enough.
- Front video signal is not stable.
- Working environment is too harsh, too much dust.
- Hardware malfunction.

4. System cannot detect hard disk.

There are following possibilities:

- HDD is broken.
- HDD ribbon is damaged.
- HDD cable connection is loose.

5. There is no video output whether it is one-channel, multiple-channel or all-channel output.

There are following possibilities:

- Program is not compatible. Please upgrade to the latest version.
- Brightness is 0. Please restore factory default setup.
- There is no video input signal or it is too weak.
- Check privacy mask setup or your screen saver.
- DVR hardware malfunctions.

6. Real-time video color is distorted.

There are following possibilities:

- When using BNC output, NTSC and PAL setup is not correct. The real-time video becomes black and white.
- DVR and monitor resistance is not compatible.
- Video transmission is too long or degrading is too huge.
- DVR color or brightness setup is not correct.

7. Cannot search local records.

There are following possibilities:

- HDD ribbon is damaged.
- HDD is broken.
- Upgraded program is not compatible.
- The recorded file has been overwritten.
- Record function has been disabled.

8. Video is distorted when searching local records.

There are following possibilities:

- Video quality setup is too low.
- Program read error, bit data is too small. There is mosaic in the full screen. Please restart the DVR to solve this problem.
- HDD data ribbon error.
- HDD malfunction.
- DVR hardware malfunctions.

9. There is no audio when monitor.

There are following possibilities:

- It is not a power picker.
- It is not a power acoustics.
- Audio cable is damaged.
- DVR hardware malfunctions.

10. There is audio when monitor but there is no audio when system playback.

There are following possibilities:

- Setup is not correct. Please enable audio function
- Corresponding channel has no video input. Playback is not continuous when the screen is blue.

11. Time display is not correct.

There are following possibilities:

- Setup is not correct
- Battery contact is not correct or voltage is too low.

Crystal is not broken.

12. DVR cannot control PTZ.

There are following possibilities:

- Front panel PTZ error
- PTZ decoder setup, connection or installation is not correct.
- Cable connection is not correct.
- PTZ setup is not correct.
- PTZ decoder and DVR protocol is not compatible.
- PTZ decoder and DVR address is not compatible.
- When there are several decoders, please add 120 Ohm between the PTZ decoder A/B cables furthest end to delete the reverberation or impedance matching. Otherwise the PTZ control is not stable.
- The distance is too far.

13. Motion detection function does not work.

There are following possibilities:

- Period setup is not correct.
- Motion detection zone setup is not correct.
- Sensitivity is too low.
- For some versions, there is hardware limit.

14. Cannot log in client-end or web.

There are following possibilities:

- For Windows 98 or Windows ME user, please update your system to Windows 2000 sp4. Or you can install client-end software of lower version. Please note right now, our DVR is not compatible with Windows VISTA control.
- ActiveX control has been disabled.
- No dx8.1 or higher. Please upgrade display card driver.
- Network connection error.
- Network setup error.
- Password or user name is invalid.
- Client-end is not compatible with DVR program.

15. There is only mosaic no video when preview or playback video file remotely.

There are following possibilities:

- Network fluency is not good.
- Client-end resources are limit.
- There is multiple-cast group setup in DVR. This mode can result in mosaic. Usually we do not recommend this mode.
- There is privacy mask or channel protection setup.
- Current user has no right to monitor.
- DVR local video output quality is not good.

16. Network connection is not stable.

There are following possibilities:

- Network is not stable.
- IP address conflict.
- MAC address conflict.
- PC or DVR network card is not good.

17. Alarm signal cannot been disarmed.

There are following possibilities:

- Alarm setup is not correct.
- Alarm output has been open manually.
- Input device error or connection is not correct.
- Some program versions may have this problem. Please upgrade your system.

18. Alarm function is null.

There are following possibilities:

- Alarm setup is not correct.
- Alarm cable connection is not correct.
- Alarm input signal is not correct.
- There are two loops connect to one alarm device.

19. Record storage period is not enough.

There are following possibilities:

- Camera quality is too low. Lens is dirty. Camera is installed against the light. Camera aperture setup is not correct.
- HDD capacity is not enough.
- HDD is damaged.

20. Cannot playback the downloaded file.

There are following possibilities:

- There is no media player.
- No DXB8.1 or higher graphic acceleration software.
- There is no DivX503Bundle.exe control when you play the file transformed to AVI via media player.
- No DivX503Bundle.exe or ffdshow-2004 1012 .exe in Windows XP OS.

21. Forget local menu operation password or network password

Please contact your local service engineer or our sales person for help. We can guide you to solve this problem.

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Addenda C User Information Card

USER'S NAME	GENTALMAN	LADY		
COMPANY NAME				
ADDRESS				
POSTALCODE				
TEL				
E-mail				
PRODUCT MODEL				
PRODUCT SERIAL NO.				
PARCHASING DATE				
DISTRIBUTOR				
Your suggestion and advice will be highly appreciated!				

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