DVR User Manual

For H.264 4/8/16-channel digital video recorder All rights reserved

CAUTION

- Please read this user manual carefully to ensure that you can use the device correctly and safely
- We do not warrant all the content is correct. The contents of this manual are subject to change without notice
- This device should be operated only from the type of power source indicated on the marking label. The voltage of the power must be verified before using. If not in use for a long time, pull out the plug from the socket

• Do not install this device near any heat sources such as radiators, heat registers, stoves or other device that produce heat

• Do not install this device near water. Clean only with a dry cloth

• Do not block any ventilation openings. And ensure well ventilation around the machine

• Do not power off the DVR at normal recording condition! The correct operation to shut off DVR is to stop recording firstly, and then select "shut-down" button at the right of the menu bar to exit, and finally to cut off the power.

• This machine is indoor using equipment. Do not expose the machine in rain or moist environment. In case any solid or liquid get into the machine's case, please cut off the power supply immediately, and ask for qualified technicians to check the machine before restart

• Refer all servicing to qualified service personnel. No any parts repaired by yourself without technical aid or approval.

• This manual is suitable for 4/8/16-channel digital video recorders. All examples and pictures used in the manual are from 16-channel DVR.

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1

1 Introduction

1.1 DVR Introduction

This model DVR (Digital Video Recorder) is designed specially for CCTV system. It adopts high performance video processing chips and embedded Linux system. Meanwhile, it utilizes many most advanced technologies, such as standard H.264 with low bit rate, Dual stream, SATA interface, VGA output mouse supported, IE browser supported with full remote control, mobile view(by phones), etc., which ensure its powerful functions and high stability. Due to these distinctive characteristics, it is widely used in banks, telecommunication, transportation, factories, warehouse, and irrigation and so on.

1.2 Main Features

COMPRESSION FORMAT

• Standard H.264 compression with low bit rate and better image quality

LIVE SURVEILLANCE

- Support HD VGA output
- Support channel security by hiding live display
- Display the local record state and basic information
- Support USB to make full control

RECORD MEDIA

• Support two SATA HDD to record for a longer time without any limitation

BACKUP

Support USB 2.0 devices to backup

- Support built-in SATA DVD writer to backup
- Support saving recorded files with AVI standard format to a remote computer through internet

RECORD & PLAYBACK

- Record modes: Manual, Schedule, Motion detection and Sensor alarm recording
- Support recycle after HDD full
- Resolution, frame rate and picture quality are adjustable
- 128MB for every video file packaging
- 4 audio channels available
- Two record search mode: time search and event search
- Support 4/8/16 screen playback simultaneously
- Support deleting and locking the recorded files one by one
- Support remote playback in Network Client through LAN or internet

ALARM

- 1 channel alarm output and 4/8/16 channel alarm input available
- Support schedule for motion detection and sensor alarm
- Support pre-recording and post recording
- Support linked channels recording once motion or alarm triggered on certain channel
- Support linked PTZ preset , auto cruise and track of the corresponding channel

PTZ CONTROL

- Support various PTZ protocols
- Support 128 PTZ presets and 8 auto cruise tracks
- Support remote PTZ control through internet

SECURITY

• Customize user right: log search, system setup, two way audio, file management, disk management, remote login, live view, manual record, playback, PTZ control and remote live view

- Support 1 administrator and 63 users.
- Support event log recording and checking, events unlimited

NETWORK

- Support TCP/IP, DHCP, PPPoE, DDNS protocol
- Support IE browser to do remote view
- Support setup client connection amount
- Support dual stream. Network stream is adjustable independently to fit the network bandwidth and environment.
- Support picture snap and color adjustment in remote live
- Support remote time and event search, and channel playback with picture snap
- Support remote PTZ control with preset and auto cruise
- Support remote full menu setup, changing all the DVR parameters remotely
- Support mobile surveillance by smart phones , symbian, WinCE, Iphone or Gphone, 3G network available
- Support CMS to manage multi devices on internet

2 Hardware Installation

Notice: Check the unit and the accessories after getting the DVR.

Please disconnect the power before being connected to other devices. Don't hot plug in/out

2.1 Install Hard Drive &DVD Writer

2.1.1 Install Hard Drive

Notice: 1. this series support two SATA hard drives. Please use the hard drive the manufacturers recommend specially for security and safe field.

2. Please calculate HDD capacity according to the recording setting. Please refer to "Appendix B Calculate Recording Capacity".

Step1: Unscrew and Open the top cover

Step2: Connect the power and data cables. Place the HDD onto the bottom case as Fig2.1.

Step3: Screw the HDD as Fig2.2

Note: For the convenience to install, please connect the power and data cables firstly, and then screw to fix.



Fig 2.1 Connect HDD



Fig 2.2 Screw HDD

2.1.2 Install DVD Writer

🖞 Notice: 1. The writers must be the compatible devices we recommend. Please refer to "Appendix C Compatible Devices"

2. This device is only for backup

Step1: Unscrew and Open the top cover

Step2: Connect the power and data cables. Place the DVD writer onto the bottom case as Fig2.3. Step3: Screw the DVD writer as Fig2.4



Fig 2.3 Connect the DVD Writer Fig 2.4 Screw the Writer

2.2 Front Panel Descriptions

b **Notice**: The front panel descriptions are only for reference; please make the object as the standard.

Item	Туре	Name	Description
		Power	Power indicator, when connection, the light is blue
		HDD	When HDD is writing and reading , the light is blue
1	Work state	Net	When access to network , the light is blue
I	indicator	Backup	When backup files and data, the light is blue
		Play	When playing video, the light is blue
		REC	When recording, the light is blue
			1. Enter menu in live
			2. Increase the value in setup
2		BACKUP/	1. Decrease the value in setup
2		DACKOT /-	2. Enter backup mode in live
		RECORD/FOCUS	1. Record manually
	Compound		2. FOCUS function enables at PTZ mode.

Item	Туре	Name	Description
	button	REW/SPEED	 Rewind key SPEED function enables at PTZ mode
		SEARCH/ZOOM	1. Enter search mode 2.ZOOM function enables at PTZ mode.
		PLAY /IRIS	 Enter play interface IRIS function enables at PTZ mode
		FF/ P.T.Z.	1. Fast forward 2. Enter PTZ mode in live
		STOP/ESC	 Quit play mode Exit the current interface or status
		1-9	Input number 1-9 or choose camera
3	Digital button	0/10+	Input number0, 10 and the above number together with other digital keys
		Direction button	Change direction to select items
4	Input button	Multi-screen	Change screen display mode like1/4/9/16 channel
		Enter button	Confirm selection
5	IR receiver	IR	For remote controller
6	USB	USB port	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse

2.3 Rear Panel Instructions

2.3.1 Rear Panel Interface

The rear Panel interface for 4-ch is shown as Fig 2.5:



Item	Name	Description
1	Video out	Connect to monitor
2	Spot out	Connect to monitor as an AUX output channel by channel. Only video display, no menu show
3	Audio out	Audio output, connect to the sound box
4	P/Z	Connect to speed dome
5	K/B	Connect to keyboard
6	ALARM IN	Connect to external sensor1-4
7	Video in	Video input channels from 1-4
8	VGA port	VGA output, connect to monitor
9	LAN	Network port
10	USB port	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
11	+ 5V and GND	+5 V and Grounding
12	Audio in	4 CH Audio input
13	POWER INPUT	DC12V
14	FAN	For cooling the device

Tab 2.1 Definitions of Front Panel Buttons



		Fig 2.0 Real Faller for o-cli
Item	Name	Description
1	Video out	Connect to monitor
2	Spot out	Connect to monitor as an AUX output channel by channel. Only video display, no menu show
3	Audio out	Audio output, connect to the sound box
4	Video in	Video input channels from 1-8
5	POWER INPUT	DC12V
6	FAN	For cooling the device
7	VGA port	VGA output, connect to monitor
8	LAN	Network port
9	USB port	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
10	P/Z	Connect to speed dome
11	K/B	Connect to keyboard
12	+ 5V and GND	+5 V and Grounding

Item	Name	Description
13	ALARM IN	Connect to external sensor1-8
14	Audio in	4 CH Audio input

Tab 2.2 Definitions of Front Panel Buttons

The rear Panel interface for 16-ch is shown as Fig 2.7:



Fig 2.7 Rear Panel for 16-ch

Item	Name	Description
1	P/Z	Connect to speed dome
2	K/B	Connect to keyboard
3	ALARM IN	Connect to external sensor1-16
4	HDMI port	Connect to high-definition display device (optional)
5	NET	Network port
6	VGA port	VGA output, connect to monitor
7	Video out	Connect to monitor
8	Video in	Video input channels from 1-16
9	Audio in	4 CH Audio input
10	POWER SWITCH	Power on/off
11	FAN	For cooling the device

Item	Name	Description
12	+ 5V and GND	+5 V and Grounding
13	ALARM OUT	1-ch relay output. Connect to external alarm.
14	USB port	To connect external USB devices like USB flash, USB HDD for backup or update firmware; or connect to USB mouse
15	Spot out	Connect to monitor as an AUX output channel by channel. Only video display, no menu show
16	Audio out	Audio output, connect to the sound box
17	POWER INPUT	DC12V

Tab 2.3 Definitions of Rear Panel Buttons

2.4 Remote Controller

It uses two AAA size batteries and works after loading batteries as following:

Step1: Open the battery cover of the Remote Controller

Step2: Place batteries. Please take care the poles (+ and -)

Step3: Replace the battery cover

🖞 Notice: Frequently defect checking as following

1. Check batteries poles

2. Check the remaining charge in the batteries

3. Check IR controller sensor is mask

If it still doesn't work, Please change a new remote controller to try, or contact your dealers

The interface of remote controller is shown in Fig2.8 Remote Controller.

Digital Video Recorder User Manual 2 3 10 (15) 4 5 6 9 14 ()SET ÷ SR HOOZ 12 13 1 \overline{O} 8

Fig 2.8 Remote Controller

Item	Name	Function
1	Power Button	Soft switch off to stop firmware running. Do it before power off.
2	INFOR Button	Get information about the DVR like firmware version, HDD information
3	REC Button	To record manually
4	Digital Button	Input digital or choose camera
5	Multi Screen Button	To choose multi screen display mode
6	SEARCH Button	To enter search mode
7	MENU Button	To enter menu
8	ENTER Button	To confirm the choice or setup
9	Direction Button	Move cursor in setup or pan/title PTZ
10	+/- Button	To increase or decrease the value in setup
11	Playback Control Button	To control playback, Fast forward/rewind/stop/single frame play
12	AUDIO Button	To enable audio output in live mode
13	Auto Dwell Button	To enter auto dwell mode
14	BACKUP Button	To enter backup mode
15	PTZ Control Button	To control PTZ camera: Move camera/zoom/focus/iris/speed control

Operation processes with remote controller to control multi-DVR

The device ID of the DVR is 0. When use of remote controller to control single DVR, it's not necessarily to reset the device ID, user can do operation directly; when control multiple DVR with remote controller, please refer to below steps:

Step1: Activate remote controller to control DVR: enable DVR: turn the IR sensor of the remote controller to the IR receiver that on the front panel, press the number key 8 twice, then input device ID (Range from: 0-65535; the default device ID is 0.) with other digital number: 0-9, after that, press ENTER button to confirm.

Step2: User can check the device ID by enter into System configuration \rightarrow Basic configuration \rightarrow device ID. User also can set other DVRs with the same device ID. For more convenient to operate, we don't recommend user to set the device ID too long.

Step3: Cancel controller to control DVR: turn the IR sensor of the remote controller to the IR receiver that on the front panel, press the number key 8 twice, then input the device ID that needs to be cancelled from controlling, press ENTER button to confirm. After that, the DVR will not be controlled by remote controller.

2.5 Control with Mouse

2.5.1 Connect Mouse

It supports USB mouse through the ports on the rear panel, please refer to Fig 2.8 Remote Controller.

Notice: If mouse is not detected or doesn't work, check below steps:

1. Make sure the mouse plugs in the USB mouse port not the USB port

2. Change a mouse to try

2.5.2 Use Mouse

In live:

Double-click left button on one camera to be full screen display. Double-click again to return to the previous screen display.

Click right button to show the control bar at the bottom of the screen. Here are all control and setup. Click right mouse again to hide the control bar.

In setup:

Click left button to enter. Click right button to cancel setup, or return to the previous.

If want to input the value, move cursor to the blank and click. An input window will appear as Fig2.9. It supports digitals, letters and symbols input.

1									Bac	ckspace
q	w				у			р	[] \
				g						Enter
Sł	hift									\boxed{I}
Esc										- =

Fig 2.9 Digital Numbers and Letters Input Window

Users can change some value by the wheel, such as time. Move cursor onto the value, and roll the wheel when the value blinks.

It supports mouse drag. I.e. Set motion detection area: click customized, hold left button and drag to set motion detection area. Set schedule: hold left button and drag to set schedule time

In playback:

Click left button to choose the options. Click right button to return to live mode.

In backup:

Click left button to choose the options. Click right button to return to previous picture.

In PTZ control:

Click left button to choose the buttons to control the PTZ. Click right button to return to live.

Notice: Mouse is the default tool in all the operation below unless Exceptional indication.

3 Basic Function Instruction

3.1 Power On/Off

Before you power on the unit, please make sure all the connection is good.

3.1.1 Power on

Step1: connect with the source power; switch on the power button near the power port on the rear panel

Step2: the device will be loaded, and the power indicator will display blue

Step3 before start, a WIZZARD window will be pop-up and show some information about time zone, time setup, network configuration, record configuration and disk management. User can setup here and refer to the concrete setup steps from the corresponding chapters. If users don't want to setup Wizard, please click Exit button to exit.

After the device power on, if there is no menu or only has live image display, user can long press ESC button to switch.

Notice: this serial device can only display menu on VGA monitor or BNC monitor at one time, if there is live image display without menu display, please check up whether other device has menu display firstly, or long press ESC key to wait for login dialog box to appear. Long press ESC key can switch the output between BNC and VGA.

3.1.2 Power off

User can power off the device by using remote controller, keyboard and mouse.

By remote controller:

Step1: press Power button, the Shut down window will appear, click OK, the unit will power off after a while. Step2: disconnect the power

By keyboard and mouse:

Step1: enter into Menu, then select "System Shut Down" icon, the Shut down window will appear Step2: click OK, the unit will power off after a while.

Step3: disconnect the power

3.2 Login

User can login and logout the DVR system. User cannot do any other operations except changing the multi-screen display once logout.



Fig 3-1 Login Notice: the default user name and password is "admin" and 123456 "

The concrete operation steps for change password, add or delete user please refer to Fig 4.7 User management configuration for more details.

3.3 Live preview



Fig 3-2 live preview interface

Symbol	Meaning
Green	Manual record
Yellow	Motion detection record
Red	Sensor Alarm record
Blue	Schedule record

3.3.1 Live playback

Click Play button to playback the record. Refer to Figure 3-3. User can do concrete operation by click the buttons on screen.



Fig 3-3 live playback

4 Main menu setup guide

Click right mouse or press ESC button on the front panel, the control bar will display on the bottom of the screen, refer to Fig 4-1:

		1		
		* 🔳 🐼 😵 [Q 🚯 🌻	
function menu	screen mode	dwell E-;	zoom PTZ	record move tool

Fig 4-1 main menu toolbar

Click the screen display mode to display a channel select dialog. 6/8/13 channels can realize single channel big screen. Images can drag to any place to display in the live interface.

Dwell: Range of selecting to dwell is from single picture preview mode to 1/4/6/9/16 picture preview mode.

Color: Click this button; user can adjust the color of live pictures.

E-Zoom: Single channel large screen electronic amplification

Left click the channel which needs to amplify; Click the right mouse, select Zoom in button and then click the left mouse to amplify the image. Press left mouse to drug the cursor, user can view the image. Double-click the left mouse to exit. Click the right mouse to return to the main interface.

Volume: Enable sound.

PTZ: Click the PTZ button to control rotation position, speed of the dome and start track, auto scan or cruise in this interface. User can refer to PTZ configuration for more details.

Snap: click this button to snap the live pictures. These pictures will automatically be saved in the SATA disk.

Record: Click this button to start manual record.

Playback: Click this button to playback the record files.

User can click the button and drag it anywhere with the left mouse

Click Menu button to pop up a window as Fig 4-2; user can also press MENU button on the front panel or operate with remote controller to display the main menu. Click Setup icon will pop-up the configuration menu:



4.1 Basic configuration

Basic configuration includes three sub menus: system, date& time and DST.

4.1.1 System

Step1: enter into system configuration→basic configuration→system; refer to Fig 4-3:

Step2: in this interface user can setup the device name, device ID, video format, max network users, VGA resolution and language. The definitions for every parameters display as below:

Device name: the name of the device. It may display on the client end or CMS that help user to recognize the device remotely.

Video format: two modes: PAL and NTSC. User can select the video format according to that of camera.



Fig 4-3 basic configuration-basic

Password check: enable this option, user needs to input user name and password can do corresponding operations with the

relevant right in system configuration.

Show time: display time in live.

Show wizard: tick off this item, there will display an opening wizard with time zone and time setup information

Max network uses: set the max user amount of network connection

VGA resolution: the resolution of live display interface, range from: VGA800*600、VGA1024*768、VGA1280*1024and CVBS

Note : When switch between VGA and CVBS will change the menu output mode, please connect to relevant monitor. Language: setup the menu language.

Note: after changed the language and video output, the device needs to login again.

4.1.2 Time & date

Step1: enter into system configuration→basic configuration→time & date; refer to Fig 4-4:

Step2: set the date format, time format, time zone in this interface; tick off "sync time with NTP server" to refresh NTP server date; user can also adjust system date manually

Step3: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

BASIC	X
System Date & Time DST	
Date Format	MM-DD-YY
Time Format	24 Hour 🗸
Time Zone	GMT 💌
Sync Time With NTP Server	
NTP Server	time.windows.com
	Update Now
System Date	05 / 04 / 2010 25
System Time	10 : 01 : 01
	Save Now
Defa	ault Apply Exit

Fig 4-4 basic configuration-time & date

4.1.3 DST

Step1: enter into system configuration \rightarrow basic configuration \rightarrow DST; refer to Fig 4-5:

Step2: in this interface, enable daylight saving time, time offset, mode, start & end month/week/date, etc. Step3: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

System Date & Time DS	1
Daylight Saving Time	
Time Offset	1
Mode	💿 Week 💿 Date
From	January
	The 1st Week
	Sunday
	00 : 00 : 00
Until	January
	The 1st Week
	Sunday
	00 : 00 : 00

Fig 4-5 basic configuration-DST

4.2 Live configuration

Live configuration includes four submenus: live, host monitor, Spot and mask.

4.2.1 Live

In this interface, user can setup camera name, adjust colors: brightness, hue, saturation and contrast.

Step1: enter into system configuration→live configuration→live; refer to Fig 4-6:

Note: Click Camera Name, a soft keyboard will pop up. User can self-define the camera name. Click Shift button, user can input Capital letters; click Shift button again, user can input Chinese characters.

Step2: tick off camera name; click "setting" button, a window will pop-up as Fig 4-7:

LIVE				Brightness
Live M	ain Monitor Spot Masl	ĸ		
СН	Camera Name	Show Name	Color	Hue
1	CAMERA01		Setting	
2	CAMERA02		Setting	Saturation
3	CAMERA03		Setting	Centraet
4	CAMERA07		Setting	
All				
			Setting	Defa

Fig 4-7 live-color adjustment

X 128 +

128 128

Fig 4-6 live configuration→live Step3: in this interface, user can adjust brightness, hue, saturation and contrast in live; click "default" button to resort default setting, click "OK" button to save the setting.

Step4: user can setup all channels with same parameters, tick off "all", then do relevant setup.

4.2.2 Main monitor

Step1: enter into system configuration→live configuration→main monitor; refer to Fig 4-8:

Step2: select split mode: 1×1、2×2、2×3、3×3、4×4 and channel

Step3: dwell time: the time interval for a certain dwell picture display switching to next dwell picture display

Step4: selected the split mode, then setup current picture

group. Click Subutton to setup the previous channel groups of dwell picture.

LIVE				X
Live Main Monitor Sp	ot Mask			
:	Split Mode	2X3		
1	2		3	
4	5		6	
Dv	vell Time	5		
		Default	Apply	Exit

Fig 4-8 live configuration-host monitor

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Click button to set the latter channel groups of dwell picture.

Step5: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

4.2.3 Spot

Step1: enter into system configuration \rightarrow live configuration \rightarrow Spot; refer to Fig 4-9:

Step2: select split mode: 1×1and channel

Step3: dwell time: the time interval for a certain dwell picture display switching to next dwell picture display

Step4: select the split mode and then setup current picture group. Click Subtron to setup the previous

channel groups of dwell picture. Click 🔽 button to set the latter channel groups of dwell picture.

Step5: click "apply" button to save the setting; click "exit" button to exit current interface

4.2.4 Mask

User can setup private mask area on the live image picture, max threes areas.

Setup mask area: click Setting button, enter into live image to press left mouse and drag mouse to set mask area, referring to below picture. Click Apply button to save the setting.

Delete mask area: select a certain mask area and click left mouse to delete that mask area. Then click Apply button to save the setting.

Live Main Monitor Spot Mask Split Mode 1x1 1 Dwell Time 5 Max Group:16. Current Group:1 Default Apply Exit	LIVE	X
Split Mode 1x1 1 Dwell Time 5 Max Group:16. Current Group:1 Default Apply Exit	Live Main Monitor Spot Mask	
1 Dwell Time Max Group:16. Current Group:1 Default Apply Exit	Split Mode	1X1
Owell Time 5 Max Group:16. Current Group:1 Default Apply Exit	1	
Max Group:16. Current Group:1 Default Apply Exit	Dwell Time	5
	Max Group:16. Current Group:1	Default Apply Exit

Fig 4-9 live configuration-Spot

LIVE					X
Live	Mair	Monitor	Spot	Mask	
СН		Mask Are	ea		
1		Setting	,		
2		Setting	,		E
3		Setting	,		
4		Setting	,		
[Defa	ault	Apply		Exit

Fig 4-10 live configuration-mask

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Live image mask area

4.3 Record configuration

Record configuration includes six sub menus: enable, record bit rate, time, recycle record, stamp and snap.

4.3.1 Enable

Step1: enter into system configuration \rightarrow record configuration \rightarrow enable; refer to Fig 4-11:

RECOR	D	X
Enable	Record Bitrate	Time Stamp Recycle Record Snap
СН	Record	Audio
1		
2		
3		
4		
All		
		Default Apply Exit

Parameter	Meaning
Record	Record switch of every
	channels
Audio	Enable live record audio

Fig 4-11 record configuration-enable

Step2: tick off record, audio and record time

Step3: user can setup all channels with same parameters, tick off "all", then to do relevant setup.

4.3.2 Record stream

Step1: enter into system configuration → record configuration → record bit rate; refer to Fig 4-12:

Step2: setup rate, resolution, quality, encode and max bit stream

Step3: user can setup all channels with same parameters, tick off "All", then to do relevant setup.

Step4: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

Note: if the rate value set is over high the maximum resources of the device, the value will be adjusted automatically.



Fig 4-12 record configuration-record bit rate

Parameter	Meaning
Rate	Range from: 1-30 (NTSC) 1-25(PAL)
Resolution	Support CIF and D1
Quality	The higher the value is, the clearer the recorded image is. Six options: lowest, lower, low,
	medium, higher and highest.
Encode	VBR and CBR
Max bit	Range from: 64 Kbps, 128 Kbps, 256 Kbps,
stream	512 Kbps, 768 Kbps, 1Mbps, 2 Mbps

4.3.3 Time

Step1: enter into system configuration \rightarrow record configuration \rightarrow time; refer to Fig 4-13:

Pre-alarm record time: the record time before event happen i.e. record time before motion detection or sensor alarm is triggered.

Post-alarm record: set the post recording time after the alarm is finished, five options: 10s, 15s, 20s, 30s, 60s, 120s, 180s and 300s.

Expire time: the hold time of saved records. If the set date is overdue, the record files will be deleted automatically.

Step2: u user can setup all channels with same parameters, and then tick off "all" to do relevant setup.

Step3: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

4.3.4 Stamp

Stamp : User can overlap the channel name and time stamp on video.

Step1: enter into system configuration \rightarrow record configuration \rightarrow stamp; refer to Fig 4-14:

Step2: tick off camera name, time stamp; click Setting button. User can use cursor to drag the camera name and time stamp in random positions, referring to below Figures:

Step3: user can setup all channels with same parameters. Tick off "all" to do relevant setup.

RECORD				X		
Enable	Record Bitrate	Time Stamp	Recycle Record	Snap		
СН	Pre-alarm Re	cord Time[S]	Post-alarm Reco	rd Time[S]	Expire[[Days]
1	5		30		Never	
2	5		30		Never	
3	10	5	30	5	Never	
4	10		30		Never	
All						
	10		30		Never	
			Def	ault A	vlaa	Exit



Ĺ	RECO	RD			X
	Enable	Record Bitrate	Time Stamp	Recycle Record	Snap
	СН	Camera Name	Time Stamp	Position	
	1			Setting	
	2			Setting	
	3			Setting	
	4			Setting	
	All				
				Setting	
L			Default	Apply	Exit

Fig 4-14 record configuration-stamp



4.3.5 Recycle record

Step1: enter into system configuration→record configuration→recycle record;

Step2: tick off recycle record to enable the recycle record function. It will cover the earlier recorded files and keep recoding when HDD is full; if user disenables this function, it will stop recording when HDD is full.

Step3: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

4.3.6 Snap

In this interface, User can set up Resolution, quality, snap interval, snap number.

4.4 Schedule configuration

Schedule configuration includes three sub menus: schedule, motion and alarm.

4.4.1 Schedule

The volume means the seven days of a week from Monday to Sunday and the row means 24 hours of a day. Click the grid to do relevant setup. Blue means checked area and gray means unchecked area.

Step1: enter into system configuration→schedule configuration→schedule; referring to Fig 4-15:



Fig 4-15 schedule configuration-schedule

Step2: select channel and double-click to pop up a window as Fig 4-16. Now user can edit week schedule:

SCHEDULE	X
Week Days Sunday 💌	Apply Settings To Sunday 💌 Copy
Start Time	End Time
00:00	23:59
02:01	23:59
Add Delete	OK Exit

Fig 4-16 schedule-week schedule

- Click "add" button to add a certain day schedule; click "delete" button to delete the selected schedule; Copy: user can copy the specify schedule to other dates.
 - Click "OK" button to save the setting; click "Exit" button to exit current interface.
- ② If the user wants to apply the schedule setting of certain channel to other or all channels, he needs to select channel and click "Copy" button.

4.4.2 Motion

Step1: enter into system configuration \rightarrow schedule configuration \rightarrow motion; refer to Fig 4-17: Step2: the setup steps of motion are familiar with schedule; user can refer to 4.4.1 Schedule for details.



Fig 4-17 schedule configuration-motion

Note: the default schedule of motion detection is full-selected, that is, the color of schedule setting interface is blue.

4.4.3 Sensor

interface is blue.

Step1: enter into system configuration→schedule configuration→alarm; refer to Fig 4-18: Step2: the setup steps of alarm are familiar with schedule; user can refer to 4.4.1 Schedule for details. Note: the default schedule of motion detection is full-selected, that is, the color of schedule setting



Fig 4-18 schedule configuration-sensor

4.5 Alarm configuration

Alarm configuration includes five sub menus: sensor, motion, video loss, other alarm and alarm out.

4.5.1 Sensor

Sensor includes three sub menus: basic, alarm handling and schedule. 1 Basic

Step1: enter into system configuration→alarm configuration→sensor→basic; refer to Fig 4-19:

Step2: enable sensor alarm and then set the alarm type according to triggered alarm type. Two option: NO and NC.

Step3: user can setup all channels with same parameters, tick off "all" to do relevant setup.

Step4: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

① Alarm handling

Step1: enter into system configuration \rightarrow alarm configuration \rightarrow sensor \rightarrow alarm handling; refer to Fig 4-20:

② Alarm handling

Step1: enter into system configuration→alarm configuration→sensor→alarm handling; refer to Fig 4-20: Step2: select hold time, click Trigger button, and a dialog box will pop-up as Fig 4-21:

Deel	Alexan MandBan Cake	aduda.	
basi	c Marm Hanuling Sch	aule	
	Hold Time[s]	Trigger	
	10		Trigger
	10		Trigger
3	10		Trigger
4	10		Trigger
All			
	10		Trigger

TRIGGER - Channel 1			
Alarm To Record To P.T.Z			
Buzzer			
Show Full Screen	None		
To Alarm Out	1		
Email			
Snap			
	5 6 7 8		
9 10 11 12	13 14 15 16		
	OK Exit		

Fig 4-20 alarm configuration-sensor-alarm handling

Fig 4-21 alarm handling-trigger

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Step 3: If Buzzer is selected, there will be triggered buzzer alarm out.

Full screen alarm: when alarm is triggered, there will pop up full screen alarm;

Email: Select this function. When an alarm is triggered, a notification email will be sent to user's designed email box including trigger events, time, snap pictures, device name, ID camera name etc.

Snap: Select channels. When an alarm is trigged, the system will automatically save the captured pictures from the selected channel. If user ticks off Email function, these pictures will also be sent to user's designed email box.

To alarm out: After selecting the channel, there will be triggered alarm out in the designated channel. Click OK button to save the setting; click Exit button to exit the current interface.

To record: Select recoding channels. It will record the camera when alarm is triggered. Click OK button to save the setting; click Exit button to exit the current interface.

To P.T.Z: set linked preset and cruise for alarm. User can select any channel and multi channels as linked channels. Click OK button to save the setting; click Exit button to exit the current interface.

Step4: user can setup all channels with same parameters. Tick off "all" to do relevant setup

③ Schedule

Step1: enter into system configuration→alarm configuration→sensor→schedule; refer to Fig 4-22:

Step2: the setup steps of sensor schedule are familiar with schedule; user can refer to 4.4.1 Schedule for details.

Note: the default schedule of sensor is full-selected, that is, the color of schedule setting interface is blue.



Fig 4-22 sensor-schedule

4.5.2 Motion

Motion includes two sub menus: motion and schedule.

① Motion

Step1: enter into system configuration \rightarrow alarm configuration \rightarrow motion; refer to Fig 4-23:
Step2: enable motion alarm, set alarm hold time which means time interval between two adjacent detective motions. If there is other motion detected during the interval period which is considered continuous movement; otherwise, it will be considered that those two adjacent detective motions are two different motion events. Click Trigger button, a dialog box will pop-up: Step3: the setup steps of motion trigger are familiar with alarm handling; user can refer to Chapter 4.5.1 Sensor →alarm handling for more details.

Step4: click Area button, a dialog box will pop-up as Fig 4-24:

мотю	N			X
Motion	Schedule			
СН	Enable	Holding Time(s)	Trigger	Area
1		10 🗳	Setting	Setting
2		10 🖉	Setting	Setting
3		10 💌	Setting	Setting
4		10 🛡	Setting	Setting



<u> </u>	-						 	 _
Γ.								
	S	ensiti	vity: 6	—	_!_	-		
_								

Fig 4-24 motion-area

Step5: in the Area interface, user can drag slide bar to set the sensitivity value (1-8), the default value is 4. The higher the value is the higher sensitivity you get. Due to the sensitivity is influenced by color and time (day or night), user can adjust its value according to the practical conditions; click icon, set the whole area as detection area; click icon, the set detection area will be cleared; click icon, user can test whether the sensitivity value and motion area are suitable accordingly (refer to following picture); Click icon, to save the setting; click icon, exit current interface.



Note: when user drag mouse to set motion detection area, they have to click 🖬 icon to clear all set detection area firstly, and then make the operation.

Step6: user can setup all channels with same parameters. Step7: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.

2 Schedule

Step1: enter into system configuration→alarm configuration→schedule; refer to Fig 4-25:

Step2: the setup steps of alarm schedule are familiar with schedule; user can refer to 4.4.1 Schedule for details.



Fig3-25 alarm configuration-schedule

4.5.3 Video loss

Step1: enter into system configuration→alarm configuration→video loss; refer to Fig 4-26:

Step2: the setup steps of video loss trigger are familiar with alarm handling; user can refer to Chapter 4.5.1 Sensor →alarm handling for more details.

Step3: user can also setup all channels with same parameters.

Step4: click "apply" button to save the setting; click "exit" button to exit current interface.

VIDE	O LOSS	×		
1	Trigger	8		
2	Trigger			
3	Trigger			
4	Trigger 🕞			
All				
	Trigger			
De	efault Apply	Exit		
00	1			

Fig 4-26 alarm configuration-video loss

4.5.4 Other alarm

Step1: enter into system configuration →other alarm; refer to Fig 4-27:

Disk full: user can choose the capacity of the disk storage and select the related alarm. If the disk is full, the system will alarm according to the setup.

IP conflict: if there is an IP address conflict within the same network, the device will alarm after user selects buzzer and the channel to alarm out.

Disconnect: if the disconnect happens, the device will the device will alarm after the user selects buzzer and the channel to alarm out.

Disk Warning: if the disk reduces, the system will send email to the designated mailbox or alarm to notify the reducing information after the user has selected the corresponding function.

OTHER ALARM	X
Alarm Type	Disk Full 💽
Buzzer	
Email	
To Alarm Out	✓ 1
Disk Shortage Alarm	128 MB
Defau	It Apply Exit
Fig	4.27 other alarm

Fig4-27 other alarm

Step 2: select a hard disk in the pull down list box. When the disk capacity is lower than that value, there will appear some text information on the lower right of the live image.

4.5.5 Alarm out

Alarm out includes three sub menus: alarm out, schedule and buzzer 1 Alarm out

Step 1: enter into system configuration → alarm out; refer to Fig 4-28: Step 2: in this interface, user can set relay alarm out name and select hold time which means the interval time between the two adjacent alarms.

Step 3: user can setup all channels with same parameters.

2 Schedule

Step 1: enter into system configuration→schedule; Step 2: the setup steps of alarm out schedule are familiar with schedule; user can refer to 4.4.1 Schedule for details.

Note: the default schedule of motion detection is full-selected, that is, the color of schedule setting interface is blue.

3 Buzzer

Step1: enter into system configuration → buzzer; Step2: tick off Buzzer and set buzzer alarm hold time

4.6 Network configuration

Network configuration includes four submenus: network, sub stream, Email and other settings.

4.6.1 Network

Step 1: enter into system configuration \rightarrow network configuration \rightarrow network; refer to Fig4-29:

Step 2: HTTP port: the default value is 80. If the value changed, user needs to add the port number when typing IP address in IE address blank .i.e. set HTTP port to 82, IP address: http://192.168.0.25, user needs to input that address: http://192.168.0.25:82

into IE browser.

ALARM	иоит		X
Alarm (Out Schedule Buzzer		
	Relay Name	Hold Time[s]	
1	ALARM OUT 1	10	
All			
		10	
	Default	Apply	Exit

Fig 4-28 system configuration-alarm out

NETWORK	×	
Network Sub-stream Email Other	Settings	
HTTP Port	80_	
Server Port	6036	
Obtain an IP address automatically		
IP Address	192.168.001.100	
Subnet Mask	255.255.255.000	
Gateway	192.168.001.001	
Preferred DNS Server	000.000.000.000	
Alternate DNS Server	000.000.000.000	
PPPoE		
User Name		
Password		
	Test	
Default	Apply Exit	

Fig 4-29 network configuration-network

4.6.2 Sub stream

NET	WORK							X
Netw	ork Sub-stre	ean	n Email O	ther Settin	gs	;		
СН	Resolution		fps	Encode		Quality	Max Bitrate	
1	CIF	9	3 🔽	CBR	-	Higher 🥃	512 kbps	
2	CIF		3 🗖	CBR	-	Higher 🥃	512 kbps	
3	CIF		3 🔽	CBR	┓	Higher 🛡	512 kbps	
4	CIF		3	CBR	-	Higher 🥃	512 kbps	
All	Remaining	: 6	4 (CIF).					
	CIF		3X16 🔽	CBR	-	Higher 🔽	512 kbps	
					De	efault 🛛 🗛	pply	Exit

Fig 4-30 network configuration-sub stream

Server port: communication port.

Step 3: If user selects the "Obtain an IP address automatically", the device will distribute IP address, subnet mask, and gateway IP and DNS server.

Step 4: enable PPPoE to directly connect the DVR to internet via ADSL, and then input the user name and password. Next, click TEST button to test the effectiveness of the relevant information.

Step 1: enter into system configuration \rightarrow network configuration \rightarrow sub stream; refer to Fig 4-30:

Step 2: select fps, resolution, quality, encode and max bit rate

Step 3: user can setup all channels with same parameters. Tick off "all" to do relevant setup.

Definitions and descriptions of Sub stream:

Parameter	Meaning				
FPS	Range from: 1-25				
Resolution	Support CIF				
Quality	The quality of the clients' image. The higher the value is, the clearer the record image.				
	Six options: lowest, lower, low, medium, higher and highest.				
Encode	VBR and CBR				
Max bit rate	Range from: 64 Kbps、128 Kbps、256 Kbps、512 Kbps、768 Kbps、1Mbps、2 Mbps				

4.6.3 Email

Step 1: enter into system configuration → network configuration → email; refer to Fig 4-31:

NETWORK						
Network	Sub-stre	am En	nail	Other Se	ettings	
SMTP Se	erver					
Port			25			
SSL Che	ck					
Send Ad	dress					
Password						
Receive Address1						
Receive Address2						
Receive	Address3	:				
				Test		
Advance	d					
Attaching	g Image					
		Default	t	Apply		Exit

Fig 4-31 network configuration-email

SMTP Server/Port: the name and port number of SMTP server. After selecting "This server requires a secure connection (SSL)", user can setup mail servers (such as Gmail) according to actual needs.

Send address/password: sender's email address/password

Receive address: receiver's email address. Here user can add at least three mail addresses.

Click TEST button to test the validity of the mailbox.

Attaching image: After selecting it, the system will attach images when sending the emails.

4.6.4 Other settings

Step 1: enable DDNS server: user needs to input user name, password and host domain name of the registered website, click TEST to test the effectiveness of the relevant information.

Step 2: click "default" button to resort default setting; click "apply" button to save the setting; click "exit" button to exit current interface.



Fig 4-32 network configuration-other settings

Note: The domain name server that selected by user is a banding domain name of DVR. User should logon the website which provided by the server supplier to register a user name and password firstly, and then apply for a domain name on line. After the successful application, user can access the server from the IE client by inputting that domain name.

Enable UPnP: User may select UPnP and then enable UPnP function in the user's router. Then user can access DVR through WAN. When accessing the DVR through IE, user can check the IP address by the following method: Double-click the "My Network Places" icon on the desktop in PC, select "Show icons for networked UPnP devices" in the "Network Tasks" list box, a information window will pop up, click "YES" button, "Windows Components Wizard" dialog box will pop up as shown as below picture, press "Next" to continue. After finished the installation of configuring components, the UPnP icons will display. Users can double-click certain icon and check the IP address of the device.

Digital Video R	Recorder User Manual
Windows Components Wizard	· · · · · · · · · · · · · · · · · · ·
Configuring Components Setup is making the configuration char	nges you requested.
Please wait while Setup con several minutes, depending	figures the components. This may take on the components selected.
Status: Completing configuration of In	vernet Games
	<back next=""></back>

If "Show icons for networked UPnP devices" can't display in the "Network Tasks" list box, please follow the below operation:

- Click "Tools"-- "Folder options"
- Select the "Show common tasks in folders" in the "Tasks" check box to display the UPnP icon.

Tools Help	_		
Map Network Drive Disconnect Network Drive Synchronize	•	General View	2
Folder Options		Show common tasks in folders Use Windows classic folders	

1. Domain name Registration (Take www.dyndns.com for example)

Note: Users can self-define the hostname, username and password.

Input www.dyndns.com in the IE address bar, user can access the domain name registration interface. Click" Dynamic DNS service "→"Create Free Hostname" to register. For example: Hostname is "abc.dyndns.tv. The picture is shown as follows:

Digital	Video Recorder User Manu
Hostname:	abc . dyndns.tv 💙
Wildcard Status:	Disabled [Want Wildcard support?]
Service Type:	Host with IP address [2] WebHop Redirect [2] Offline Hostname [2]
IP Address:	210.21.229.138 Your current location's IP address is 210.21.229.138 III. value is 60 seconds. Edit III.
Mail Routing:	Yes, let me configure Email routing. [?]

After user fill in the blank, click "Add to cart". Then Dynamic DNS Hosts dialog box will be displayed. Next, create user account. For example, the username is "bcd", password is "123456".

<i>i</i> i
bcd
•••••
•••••
abc@yahoo.com.cn
abc@yahoo.com.cn
5 2 5 1 7
Enter the numbers from the above image:
52517
DynDNS.com newsletter
Dyn Inc. press releases
he acceptable use policy (AUP) and privacy polic
]

Click" Create Account" button to create user account.

- 2. DVR Setting
- (1) Domain name

According to the domain name registration of "DDNS" , the domain name for DVR is "abc.dyndns.tv"

(2) Username and password

According to the above registration, username is "bcd".

According to the above registration, password is "123456"

3. Application

Note

Connect DVR to the Network Client.

Enter into Main menu-Network-other settings, tick off DDNS, select "Dyndns" at the DDNS Sever pull down list box and 1 input user name and password.

Enter into configuration interface of the router to map the server port and IP address (if the user enables UPnP function, he 2 can skip this step). Click Save button to save the setting

Login IE browser and input registered domain name "http://www.abc.dyndns.tv", connect to DVR client. 3

> If the value changed, user needs to add the port number when typing IP address in IE address blank .i.e. set HTTP port to 82, IP address: http://192.168.0.25, user needs to input that address: http://192.168.0.25:82 into IE browser.

Definitions and descriptions of network configuration:

DDNS server							
DDNS server	Website provided by dynamic domain name supplier. The optional:						
	www.dns2p.net , www.meibu.com , www.dyndns.comandwww.no-ip.com						
User name	User name for log in the website of domain name supplier						
Password	Password for log in the website of domain name supplier						
Host domain	The domain name user registered at the supplier's website.						
Update interval	The interval time of upgrading DVR IP address						

4.7 User management configuration

Step 1: enter into system configuration → user management configuration; refer to Fig 4-33: Step 2: click Add button to display a dialog box as Fig 4-34:

USER MANAGER			X
User Name admin	User Type Admin	PC MAC Address 00-00-00-00-00-00	
Add Setup	Delete C	hange Password	Exit



Fig 4-33 user management configuration

Fig 4-34 add-general

① General: Input user name, password; select user type: normal and advance, input the MAC address of the PC; click OK button. Then this user will be added into the user list box; click Exit button to exit the current interface.

Note: when the default value of binding PC MAC address is 0, the user is not bind with the specify computer; the, the user can log in DVR on the binding computer after set the specific binding MAC address.

② Authority:

Step 1: enter into Add user \rightarrow authority; refer to Fig 4-35: Step 2: In the authority interface, assign the definite operation right for that user.

Step 3: in the user management interface, click Setup button to modify user name, user type and binding PC MAC address.

Step 4: select the user that user wants to delete in the user list box and then click Delete button to delete this user.

Step 5: click Change password button to modify the password; click Exit button to exit the current interface.

ADD USE	R									X
General	Authority									
Log Se	earch	Sy 🗐	stem Se	etup		Shut Do	wn			E
🗹 Two W	🗹 Two Way Audio 📃 File Management 🛛 🔲 Disk Management									
Remot	e Login									
🗹 Live V	iew									
	1	2	3	4	V	5	6	7 🗹	8 💌	
	9	10	11	12		13	14	15	16	
🗹 Manua	Manual Record									
	1	2	3	4		5	6	7 🗹	8 💌	
								ок	Ex	it

Fig 4-35 add user-authority

4.8 P.T.Z configuration

P.T.Z configuration includes two submenus: serial port and advance

① Serial port

CH Enable Address Baud Rate Protoc 1 2 2 2 9600 PELC 2 PELC	
1 ♥ 1 ♥ 9600 ♥ PELC 2 ♥ 2 ♥ 9600 ♥ PELC	OP 🔽 🗎
2 🗹 2 💌 9600 💌 PELC	
	op 🔽 🗖
3 🗹 <u>3 🔮 9600 🐷 PELC</u>	OP 🔽
4 🗹 4 🛡 9600 🛡 PELC	OP 🗸 🗖
All	
9600 V PELC	OP 🗖
Default Apply	Exit

Step 1: enter into system configuration \rightarrow P.T.Z configuration \rightarrow serial port; refer to Fig 4-36:

Step 2: tick off Enable and then setup the value of address, baud rate and protocol according to the settings of the speed dome.

Step 3: user can setup all channels with same parameters.

Fig 4-36 P.T.Z configuration-serial port

Definitions and descriptions of network stream:

Parameter	Meaning					
Address	The address of the PTZ device					
Baud rate	Baud rate of the PTZ device. Range form: 110, 300, 600, 1200, 2400,					
	4800, 9600, 19200, 34800, 57600, 115200, 230400, 460800, 921600.					
Protocol	Communication protocol of the PTZ device. Range from: NULL, PELCOP,					
	PELCOD, LILIN, MINKING, NEON, STAR, VIDO, DSCP, VISCA,					
	SAMSUNG, RM110, HY, N-control.					

③ Advance

Step 1: enter into system configuration \rightarrow P.T.Z configuration \rightarrow advance; refer to Fig 4-37:

Step 2: in the Advance interface, click preset "Setting" button to see a dialog box as Fig 4-38:

СН	Preset	Cruise	Track	No.	Enable	Name	Preset	
1	Setting	Setting	Setting	1		preset001	Setting	
2	Setting	Setting	Setting	2		preset002	Setting	
	Setting	Setting	Setting	3		preset003	Setting	
4	Setting	Setting	Setting	4		preset004	Setting	l l

Fig 4-37 P.T.Z configuration-advance

Fig 4-38 advance-preset setting

a. in the preset set interface, while clicking Setting button, a dialog will pop-up as Fig 3-39:

		Zoom	+	No.	1 🛡
		Focus	+		
		Iris	+		Save
Speed: 5	_	0			_ ×

Fig 4-39 preset set-setting

b. user can control the dome rotates up, up left, down, right down, left , left down, right and up right and stop rotating; adjust the rotate speed and the value of zoom, focus and iris of the dome;

c. select the serial number of the preset point. Click 🔯 button to enable the PTZ wiper and click 🥺 button to enable the PTZ light.

Note: PTZ must support wiper and light, these two functional buttons can take effect. At the same time these two buttons are just available when selecting PELCOP or PELCOD.

Click Save button to save the settings, click location to hide the tool bar, right-key can remerge it; click icon to exit the current interface.

d. in the preset interface, click OK button to save the setting; click Exit button to exit current interface.

Step 3: in the Advance interface, while clicking cruise "Setting" button, a dialog box will pop-up as Fig 4-40:

	Digital Video Recorder User Manual
CRUI	SE - Channel 1
No.	Name
1	Cruise
2	Cruise
3	Cruise
1/1	
Add	Setup Delete Clear All OK Exit

Fig 4-40 cruise set

a. click Add button to add cruise line in the list box (max 8 cruise line can be added); select a cruise line and click Setup button to see a dialog box as Fig 4-41:

b. click Add icon 🛨 to set the speed and time of preset point; select a preset point and then <u>click Delete icon</u> 🛍 to delete

that preset point; click Modify icon it to modify the setting of a preset point. User can click TTTTT those icons to adjust the position of preset point. Click Preview button to preview the cruise line; click OK button to save the setting; click Exit button to exit current interface.

c. select a preset point in the cruise line list box. Click Delete button to delete that cruise line; click Clear all button to clear all cruise line from the list box; click OK button to save the setting; click Exit button to exit current interface.

CRUISE PRESET							
No. 7 💌	Name Cruise						
Preset	Speed	Time	+				
256	1	5	ŵ				
256	2	5	۲				
256	3	5	Ŧ				
256		5	t				
			÷				
			Ŧ				
Preview OK Exit							

Fig 4-41 cruise set-modify cruise line



Fig 4-42 track setting

a. user can control the dome rotates up, up left, down, right down, left, left down, right and up right and stop rotating; adjust the rotate speed and the value of zoom, focus and iris of the dome; click Start Record button to record the move track of PTZ; click this button again can stop record; click Start track button to play recorded track; click this button again can stop <u>play</u>.

b. click 📕 icon to hide the tool bar, right-key can remerge it; click 🗵 icon to exit the current interface.

4.9 Advanced

Advanced configuration includes three submenus: reset, import/export and Block/Allow list.

4.9.1 Reset

Reset all settings the device will reboot.

4.9.2 Import/Export

User can export the data files into mobile storage devices as backup function, and then import specified data files from mobile storage device to DVR.

4.9.3 Block/Allow list

BLOCK / ALLOW LIST						
		🗿 Block List	Allow List			
	ID	IP From	То			
	1	196.168.000.002	196.168.000.004	P		
	2	000.000.000.000	000.000.000.000			
	3	000.000.000.000	000.000.000.000			
	4	000.000.000.000	000.000.000.000			
	Default Apply Exit					

Fig 4-43 Block/Allow list

Here authorized user can prohibit computer users within a certain IP address segment from accessing to DVR or admit computer users within a certain IP address segment into DVR. For example, if authorized user don't want computer users within IP address segment from 196.168.000.002 to 196.168.000.004 to access to DVR, authorized user can tick off Block list, and then input such IP address segment. After that, click Apply to save settings. If authorized users allow computer users within a certain IP address segment to access DVR, they can tick off Allow-list, and then operate in the same way.

5 Record search & playback and backup

Search configuration includes four submenus: time search, event search, file management and image.

5.1 Time search

Step1: enter into Search configuration→time search; refer to Fig 5-1:



Fig 5-1 Search configuration-time search

Step2: select channel, screen display mode, the highlight date in the calendar means have record data Step3: select a date, press Search button, click the time grid to set the play start time or input play record time manually. The selected time match the blue grid.

Note: the vertical column means hours, horizontal column means channels.

Step4: click Play button to playback record; click the relevant buttons on the screen to do operation:

play/pause stop ^{frame}	screen mode	E-zoom	volume exit
Ⅲ ■ ▷ <mark>▷ ^ ∢ ^</mark> ≪	(🗍 🔍 🗱 🔲 Camera Name	
01/10/201FF / rewind)		color >>1X	hide toolbar7:29:59
last segment of record		play process	next segment record

Playback buttons

Note: when the monitor resolution is VGA800*600, the time search interface will appear a hide button, click this button, the whole interface can be expanded.

5.2 Event search

Step1: enter into Search configuration → event search; refer to Fig 5-2:

SEARCH										
Time	Time Search Event Search File Management Image Search									
СН	CH Type Start Time End Time					2011 🛡 1				
1	Motion	01/12/2011 16:08:31	01/12/2011 16:08:49	Su	Mo	Tu	We	Th	Fr	Sa
2	Sensor	01/12/2011 16:08:31	01/12/2011 16:08:49							1
3	Motion	01/12/2011 16:08:31	01/12/2011 16:08:49	2	3		5			8
				9	10		12			15
				16						22
				23						29
			<u> </u>	30						
					1 🗹		2	🗹 3		4
0/0							8			
🗹 Mot	Motion Sensor All						10	<u></u> 1	1 🔄	12
							14	🗹 1	5 🗸	16

Fig 5-2 Search configuration-event search

Step2: click Search button to display the searched event information in the event list box. User can select date and channel. Then tick off Motion, Sensor or All accordingly.

Step3: double check a certain record file to playback.

Note: when the monitor resolution is VGA800*600, the event search interface will appear a hide button. Then click this button to expand the whole interface.

5.3 File management

Step1: enter into Search configuration → file management; refer to Fig 5-3:

SEARCH											
Time Search Event Search File Management Image Search											
СН	Start Time	End Time	Status		2011	1			I		
1	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing	E	su	Mo	Tu	We	Th	Fr	Sa
2	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing								1
3	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing		2	3		5			
4	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing		9	10		12		14	15
5	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing		16	17	18	19	20	21	22
6	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing		23	24	25	26	27	28	29
7	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing		30	<u>।</u>					
8	01/12/2011 16:08:31	01/12/2011 16:08:49	Writing	H		<u> </u>]2]e			<u> 4</u> 0
1/2		All 🔲 🔣				✓ 5		110		1 🔽	12
Delete	Delete Lock										

Fig 5-3 Search configuration-file management

Step2: After clicking Search button, the searched files will be displayed in the file list box; user can select date, channels accordingly.

Lock: select a file and click Lock button to lock this file, after that, that file will not be deleted or covered. **Unlock:** select a locked file and click Lock button to unlock this file

Delete: select an unlocked file and click Delete button to delete this file.

Step3: after selecting "All" button; user can lock/unlock or delete all files in the file management column. Step4: double click an unlocked item to playback.

5.4 Image

In this interface, user can set start, end time and channels to search the captured images and save, lock or delete these images. There are at most 2000 images which can be saved in the SATA disk. If there are more images saved in the SATA disks than 2000 images, those additional images will supersede prior images. Double click the image with the left mouse, it will automatically playback from the time of the image captured.

5.5 Backup

This unit supports backup by built-in SATA DVD Writer with USB Flash. User also can make backup by IE browser via internet. Refer to 7.3.2 Remote backup.

Step1: enter into backup configuration; refer to Fig 5-4:

В	ACKUP			X
	СН	Start Time	End Time	Chart Time OF + 0 1 + 0014
	1	05/24/2011 15:11:17	05/24/2011 15:13:22	Start Time 05 / 24 / 2011 =25
	2	05/24/2011 15:11:17	05/24/2011 15:13:22	
	3	05/24/2011 15:11:17	05/24/2011 15:13:22	End Time 05 / 24 / 2011 25
	4	05/24/2011 15:11:17	05/24/2011 15:13:22	23 : 59 : 59
	5	05/24/2011 15:11:17	05/24/2011 15:13:22	
	6	05/24/2011 15:11:17	05/24/2011 15:13:22	
	7	05/24/2011 15:11:17	05/24/2011 15:13:22	9 10 11 12
	8	05/24/2011 15:11:17	05/24/2011 15:13:22	
1/1		All 🔽		
			В	ackup Search Exit

Fig 5-4 backup configuration

Step2: set the start & end time, select channels, click Search button, the searched data will be displayed in the data backup list box

Step3: select a data file or tick off "All" to select all data files. Click Backup button to display Backup information window. Step4: in the backup information interface, user can check the relevant information of backup files, storage type, save file type, etc. Then click Start button to starting backup.

6 Manage DVR

6.1 Check system information

Check system information includes five submenus: system, event, log, network and online user.

6.1.1 System information

In this interface, user can check the hardware version, MCU version, kernel version, device ID, etc.

6.1.2 Event information

In this interface, user can check record events according to the set date.

Note: if there are overlapping files, a "+" character will show behind the channel ID.

6.1.3 Log information

In this interface, user can check relevant log information according to set date. User can export the data files into mobile storage devices as backup function.

6.1.4 Network information

In this interface, user can check relevant parameters of network.

6.1.5 Online information

In this interface, user can check the details of the current connection of online users.

Refresh: refresh the current interface.

Disconnect: the administrator authorized to disconnect the client terminal. When disconnected, that PC will not be able to access the device within five minutes.

6.2 Manual alarm

In this interface, user can check the relevant parameters of manual alarm.

6.3 Disk management

1. Format the disk

Step1: enter into disk management interface

Note: please format the hard disk before record. If not being formatted, it will show the status of the disk-free space, and total space show OM at the bottom of screen.

Step2: click Refresh button to refresh the disk information of the list box; set the property of the disk then click Apply button to save the setting

Step3: select a hard disk and click Format button to star format.

Note: all recorded files in the hard disk will be lost after formatted.

2. Advanced

User may check model, S/N, firmware, health status of the disk in this interface. User also can monitor the temperature, internal circuit, dielectric material of the disk, analysis the potential problems of the disk and warn so as to protect its data.

6.4 Upgrade

At present, it only supports USB update. Get the software from your vendor when there is a new software version, and make sure it is corresponding with the DVR. User can check the USB information in Disk management.

Upgrade method: the user needs to copy the upgrade software which gets from vendor into the USB storage device and then connect to the USB port. Enter Menu→Upgrade, the upgrade software name is displayed in the upgrade list box, select that software and then click upgrade button. It will upgrade automatically. Please wait for a while when the system is rebooted. Never cut off power during upgrading.

6.5 Logoff

Click Log off icon, a log off dialogue box will popup, click OK button, the device will log off. If user wants to log in again, click icon to enter into user name and password to re-login.

7 Remote Surveillance

7.1 IE Remote Surveillance

In order to view the DVR from a network it must be connected to a LAN/WAN or internet. The network setup should be done accordingly. Please refer to 4.6 Network Setup. This DVR supports IE browser, on Windows XP and Vista platform.

7.1.1 On LAN

Step 1: Enter into the DVR's Main Menu→Setup→Network interface to input IP address, Subnet Mask, etc .If using DHCP, please enable DHCP in both the DVR and the router.

Step 2: Enter Record Setup to set network video parameters like resolution, frame rate etc.

Step 3: Open IE on a computer on the same network. Input the IP address of the DVR in IE address bar and press enter.

Step 4: IE will download ActiveX component automatically. Enter the username and password in the subsequent window

Notice: If HTTP port is not 80, other number instead, need add the port number after IP address. For example, set HTTP port as 82, need input IP address like 192.168.0.25:82.

User name and password here are the same with that used on the DVR. The default is admin and 123456.

7.1.2 On WAN

There are two ways for the DVR to connect to internet.

1. Connect the DVR to internet through router or virtual server

Step 1: Enter into the DVR's Main Menu \rightarrow Setup \rightarrow Network interface to input IP address, Subnet Mask, etc. If using DHCP, please enable DHCP in both the DVR and router.

Step 2: Forward IP address and port number in Virtual Server setup of the router or virtual server. Configure the firewall to allow accessing the DVR. (If the user has enabled the UPnP function in both the DVR and router, he can skip this step.) Step 4: If users want to utilize dynamic domain name, please apply for a domain name in a DNS server supported by the

DVR or router. Then add to the DVR or router.

This unit supports www.dns2p.com , www.meibu.com , www.dyndns.com , and www.no-ip.com.

Step 5: Open IE browser, input IP address, or dynamic domain name and enter. If HTTP port is not 80, add the port number

after IP address or domain name.

Step 6: IE will download ActiveX automatically. Then a window pops up and asks for user name and password. Input name and password correctly, and enter to view.

^b **Note:** If you cannot download and install ActiveX, please refer to 0 This DVR supports mobile surveillance by Iphone, Gphone, blackberry or smart phones with Windows mobile and symbian OS. At the same time, it supports 3G network. We tested Dopod D600 (WM5) and Dopod S1 (WM6), which work fine with the DVR.

It wants to make mobile surveillance, need first enable network service on the DVR, and refer to Chapter 4.6 Network configuration. The below is the use instructions on mobile client end for two OS.

7.2 By Phones with Windows mobile

Step1 : Firstly activate the network access on mobile phone and then run "Internet Explorer". Input the server's address and the connection is built up shown as below picture in the left:

Step2 : Click on the software name. A dialog box pops up as below picture in the middle:

Step3 : Click "Yes" to start downloading and installing:

Step4 : PCam will be opened automatically after installed. Refer picture in the right:



Step5: Input the server's address, ID and password respectively in the columns of "Server", "User" and "Password", and click "Go" to log on the server. It will show the picture if access successfully. Refer below picture in the left: **Step6**: Camera 1 is the default channel after login. Change the channel in rolling-down menu of "Channel": refer below picture in the right:



7.3 By Phones with Symbian

Please use the smart phones with symbian version supported by this unit. The detail information is as follows:

Ormahian 040	
Symplan S40	support
Symbian UIQ	support
Symbian S80	support
Symbian S60	support
Symbian S60 3 rd Edition-Symbian OS v9.1	support
Symbian S60 3 rd Edition with FP 1-Symbian OS v9.2	support
Symbian S60 3 rd Edition with FP2-Symbian OS v9.3	support
Symbian S60 5 th Edition-Symbian OS v9.4	support
Symbian S60 5.1 Edition-Symbian OS v9.5	support

Step1 : Firstly enable the network access on mobile phone. Then run Web browser.

Step2 : Input the DVR server's IP address in a new-built bookmark. Click this bookmark to connect to the DVR. Refer picture in the left:

Step3 : A welcome window will pop up and requires a package. Click the software name to download. Refer picture in the right:



- Step4 : A security windows will pop up after downloading and ask if install the package. Click YES to install.
- Step5 : A Scam shortcut icon appears on the system menu after finished.
- Step6 : Run Scam program. It will enter a function interface. Refer picture in the left:
- Step7 : Click System setting--->Login Setting to enter login interface. Refer picture in the right:



Step8 : Input the server's address, ID and password respectively. Then save.

Notice: About Access point, there may be different access points in different countries or from service providers. **Step9** : Enter Live View, it will connect the server and display pictures. Refer picture in the left:

Notice: User name and password here are the same with that used on the DVR. The default is admin and 123456. **Step10**: In Live View, users can do snapshot, change channels and control PTZ. Refer picture in the right:



AM1	
SnapShot	
FullScreen	Direction
Camera	Focus
PTZ	Zoom
Hide	Iris

and IP

7.4 The Software installation for iPhone mobile clients

1. Install through iphone.

Step 1. Open App Store function of iphone. Step 2. Enable "search" SuperCam".



Step 3: Click SuperCam, enter into "introduce" interface and then click "FREE", it will change into "INSTALL"



Step 4: Input iTunes Store password and then click "OK", the software will be installed automatically.



Note: if it was the first time for user to operate, please enter user ID; if there is no Store account, user needs to apply one.

2. Install through PC.





Step 5: Input apple ID and password, then click "acquire"

Step 6: Tick off "synchronously apply program" and "SuperCam", and then click "apply" button **Operation Instruction for SuperCam (iphone)**

1. Login interface

SuperCam		
Server:	user.meibu.com:5008	W
Username:	admin	
Password:	****	
	Remember server	
Log	gin Cancel	

Enter server's IP address (or domain name), user name and password

Click "Remember server" to save the setting; click ∇ button can quick input saved server address, user name and password.

2. Main Interface



[Playback]	playback record file	【Image】	image view	
[Log]	log record	[Server List]	device list	
[Live]	live view	[Settings]	software setting	
[Information]	device information view	【Help】	software help center	
[Logoff]	logoff and return to login interface			

3. Live View Interface

Return Live		Return Channel Configure UK 5. 0 UK 5. 0 UK 5. 0 UK 5. 0	Return Cristing Cristing Cristing Cristing	Ptz Control	Reum Piz Control Distance Distance Distance Distance </th
Mark 1	Current v	iewing channel		Mark 2	Channel status
	Switch channels			Ō	PTZ, click to switch to Fig 2 interface
Ō	Snap picture			REC	Record

	Close the video of the current channel	4 »	Live audio
	Switch to the single image	\blacksquare	Switch to four images
	Upward rotates the PTZ		Downward rotates the PTZ
\checkmark	Leftward rotates the PTZ	•	Rightward rotates the PTZ
	Stop rotating the PTZ	÷	Zoom In/Focus In/Iris Add
Θ	Zoom Out/Focus Out/Iris Sub	Preset	elect the preset point
Group	Set the cruise line	Speed	Rotate speed of the PTZ
H-Reverse	Horizontal- Reverse	V-Reverse	Vertical- Reverse

- 4. Image view interface, refer below picture in the left:
- 5. Record Playback interface, refer below picture in the right:



Click the record file to playback.

- 6. Server list Interface, refer to below picture in the left:
- 7. Config interface, refer to below picture in the right:

Return Favorites		Return Settings Storage:
Address: demo.tvt.net.cn:5204		Record file clip size:
Server20100407155052 Address: demo.tvt.net.cn:5008		2MB 4MB 6MB 8MB 10MB 12MB
		Reservered disk space: 1 MB
		Display mode:
		One Four
	Add a corver list	Remember display order: OFF
	+ Aud a server fist	Alarm:
	🗹 Modify a server list	Audio alarm: OFF
Add Modify Delete	😰 Delete a server list	Shake alarm: OFF

Main parameters for mobile phone video config

Record file clip size: Single video size. When the video size is greater than setup value, change another video files **Reserved disk space**: Reserved SD Card disk space, when the disk space is less than setup value, the video will be stopped

Display config :

Display mode: User can select one live picture display or four live picture displays

Remember display order: User can choose whether to remember display order or not.

Alarm config : Select Audio Alarm. When Video Loss/Sensor/Motion happens , trigger sound alarm. Select shake Alarm.

When Video Loss/Sensor/Motion happens , trigger vibrate alarm.

8. Information View Interface



Device name: the current device name Device ID: the current connection device ID Software version: the current connection device software version Build date: the current connection device build date Software version: the software version of mobile phone in use Software build date: the software build date of mobile phone in use

7.5 The installation & operation methods for Android mobile clients

Software Installation



Step 1: run Google Market program



Step 2: search"SuperCam"



Step 5: user can view the download and install process in notifications; finished download, the software will install automatically.



Enter into server's IP address (or domain name), user's ID and password.

Click "Remember server" to save the setting; click igvee button can quick input saved server address, user name and password.

Main menu

SuperCam					
80		[Playback]	playback record file	[Image]	image view
Playback	Image	[Log]	log record	[Server List]	device list
	.	[Live]	live view	[Settings]	software setting
	J	[Information]	device information view	[Help]	software help center
Server List	Live	【Logoff】	logoff and return to login in	iterface	
Information	Help	Logoff			
Live view



(Fig 2)

Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels	Ē	PTZ, click to switch to Fig 2 interface
Ō	Snap	REC	record
a J	talk	•{)	Live audio
\sim	Full screen	\$	Return
	Upward rotates the PTZ		Downward rotates the PTZ
	Leftward rotates the PTZ		Rightward rotates the PTZ

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	Stop rotates the PTZ	(\bullet)	Zoom In/Focus In/Iris Add
$\overline{\bigcirc}$	Zoom Out/Focus Out/Iris Sub	Preset	Select the preset point
Group	Set the cruise line		

Image view



(1	Previous	•	Next
∂	Zoom out		Delete
Ð	Zoom in	×	Return to main menu

Record playback



(Fig 3)



(Fig 4)

11	Play/pause
\times	Full screen
	stop
×	Return to record file interface (Fig 3)

Click the record file (Fig 3) to playback (Fig 4)

Server list

SuperCam		
server110449928 192.168.3.144:2210 admin	*	Add a sever list
server11045161922 119.122.47.190:9000 admin	1	Modify a sever list
	*	Delete a server list
	%	Return to main menu
🤹 🏈 🙀 🥸		

Alarm setting	Tick off Sound Alarm , when Video		
	Loss/Sensor/Motion happen , trigger sound alarm;		
	Tick off Vibrate Alarm, when Video		
	Loss/Sensor/Motion happen, trigger vibrate alarm		
Storage setting	User can setup the relevant parameters of mobile		
	video. This function can be valid only insert SD card.		
Path	Save path for mobile video files, the default catalog is		
	/SDCard/. Click 🚔 button to change path.		
Reserved disk space	reserved SDCard disk space, when the disk space is		
	less than setup value, the video will be stopped		
Video clip size	Single video size. When the video size is greater than		

Config interface

SuperCam			
Alarm Setting:			
Sound Alarm			
Vibrate Alarm			
Storage Setting:			
Path: /sdcard/			
Reservered disk space:	MB		
Video clip size:			
Remove all recorder files before			
Save			

Digital Video Recorder User Manual

Remove all recorder files before

setup value, change another video files er delete all current video files

Information view



Device ID:

Software version: 2070100 Build date:20100401

Phone:

Software version: 2.1.2 Software build date:2010.05.15 Device ID: the current connection device ID

Software version: the current connection device software version

Build date: the current connection device build date

Software version: the software version of mobile phone in use

Software build date: the software build date of mobile phone in use

7.6 Installation and operation Methods for BlackBerry Mobile phone Client

7.6.1 Installation instruction for BlackBerry Mobile phone Client

- 1. Open the browser of BlackBerry phone and enter sever address
- 2. Click "SuperCam" to link





Note: If the software fails to download, please check in accordance with the following steps:

- 1. Check whether the network of mobile phone is normal or not
- 2. Check whether DVR server connect network normally or not
- 3. Modify the option of Browser Configuration.

(1) Enter into Menu->Option->Browser Configuration; configure referring to the following figure in the left.

(2) Enter into Menu->Option->Cache Operations, clear up browser cache. Refer below picture in the right:

Browser Configuration		Cache Operations	
Browser:	Browser		Clear History
 Support JavaScript Allow JavaScript popups Terminate slow running scripts Use Background Images 		Content Cache	Size: 2.7K Clear
Support Embedded Media Show Images: On WML & H Browser Identification: I Start Page:	TML Pages BlackBerry Start Page	Pushed Content Cookie Cache	Size: 0.0K Size: 0 cookies
Home Page Address: about:start			

Note : When user used the SuperCam software in mobile phone with touch screen, there will be compatible problem.

Solution: Enter into Options Menu->Advance options->Applications->SuperCam and click "Disable Compatibility" button. This problem will be solved.

7.6.2 Operation method for Blackberry mobile phone client

1. Login

Digital Video Recorder User Manual SuperCam Address: USer.meibu.com:60 Username: admin Password: ****** Remember server Login Exit

Enter server's IP address (or domain name), user's ID and password.

Click "Remember server" to save the setting; click $\mathbf{\nabla}$ button can quick input saved server address, user name and password.

2. Main interface



Playback	playback record file	Image	image view	
Log	log record	Server List	device list	
Information	device information	Help	software	help
	view		center	
Logoff	logoff and return to login interface	Settings	software set	ting
Live	live view			

3. Live view



Note: User can click Return button on the Blackberry phone to return the previous interface.

Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels		PTZ, click to switch to Fig 2 interface
ō	Snap	×	Full screen
¥	Background alarm		Stop rotating the PTZ
	Upward rotates the PTZ		Downward rotates the PTZ
	Leftward rotates the PTZ		Rightward rotates the PTZ
\oplus	Zoom In/Focus In/Iris Add	Θ	Zoom Out/Focus Out/Iris Sub
Preset	Select the preset point	Group	Set the cruise line

4. Server list

5. Software configuration

Cura Care		SuperCam	
		Alarm type:	
address: wanjunjie.meibu.com:6058		🖌 Video loss	
📷 Street		✓ Motion alarm	
address: 192.168.3.142:1111	[Add] Add a server list	✓Sensor alarm	Alarm type: Setup the type of background alarm
	Madifid	Alarm output type:	(Video Loss/Sensor/Motion)
Add lina	[MOONY] Modify a server list	✓Audio alarm	Alarm output type: Setup prompt type of backgound
Modify Delete ress: democracy.meibu.com:6037	[Delete] Delete a server list	✓Vibrate alarm	Alarm (sound alarm/ bibrate alarm)

6. Information view

SuperCam	Device ID: the current connection device ID
Device: Device name: EDVR Device ID: 0 Software version: 3.1.2.P	Software version: the current connection device software version Build date: the current connection device build date
Build date: 19740305	Software version: the software version of mobile
Phone:	phone in use
Software version: 2.1.0 Build date: 2010.08.16	Software build date: the software build date of mobile phone in use

10 **FAQ** Q8.

2. Connect the DVR to internet directly.

Step 1: Enter into the DVR's Main Menu→Setup→Network interface to enable PPPoE and then input user name and password received from your ISP. Next, click 'Apply'. The DVR will connect to the server and would give a confirmation message.

Step 2: When accessing the remote interface of DVR, user can input WAN IP to access directly (user can enter into Main menu→Information→Network interface to check IP address). The browser will download Active X control Step 3: The following setting steps are as the same as Step4, Step 5 and Step 6 in Point 1.



Fig 7-1 View with IE browser

7.7 Remote Surveillance through Apple PC

Note: Because the current plug-in version of client end just only supports 32-bit mode, so the safari browser shall start 32-bit mode. If the browser is the earlier MACOS version, the default setting is 32-bit mode and the setting can be skipped. The Setting steps are as follows:

First: Right click safari icon [™] and select "Show in Finder". Second: Select Applications→Right click "Safari. App"→Select "Get Info".



Third: Select "open in 32- bit mode".



7.7.1 On LAN

Step 1: After starting Apple computer, click icon. The following window will pop up. Please select "System Preferences"→"Internet &Wireless"→click "Network"

Mac OS X Software	
System Preference	5
Dock	•
Recent Items	•
Force Quit Finder	乙烯石乙
Sleep Restart Shut Down	℃第▲
Log Out coodoo	企業Q

Internet & Wireless								
MobileMe	Network	Bluetooth	(Normalized Sharing					

Step 2: Enter into Network interface and then click "Ethernet Connected" to check the internet connection of Apple PC.

	Location	Automatic	\$
Ethernet Connected	1000	Status:	Connected
e Bluetooth DUN			Ethernet is currently active and has the IP address XXX. XXX. XXX. XXX
Not Connected		Configure IPv4:	Manually \$
Firewire Not Connected	2°	IP Address:	XXX. XXX. XXX. XXX
AirPort Off	?	Subnet Mask:	XXX. XXX. XXX. XXX
		Router:	XXX. XXX. XXX. XXX
		DNS Server:	XXX. XXX. XXX. XXX
		Search Domains:	
+ - 0.	_		Advanced

Step 3: After acquiring the IP address, Subnet Mask and so on, please enter into the DVR's Main Menu→Setup→Network interface to manually input IP address, Subnet Mask and Gateway according to the configuration of PC. The network segment should be the same as the PC. If using DHCP, please enable DHCP in the DVR and router.

Step 4: After finishing the above information, users can enter LAN IP and http port in the Safari browser. For example: input http://192.168.1.100:81(here 192.168.1.100 is LAN IP of DVR, 81 is the http port of DVR). Click " © "button, the browser will download Active X control as shown below:

00	W	leb Client		
 Image: A state of the state of	. 168. 1. 100:81		C Q. Google	U H O
□ ■ Apple untitled folder ▼				
	please click icon to load a WebkitPlugin:	and install		
	effect after install!	nsure wedkitPlugin ca	птаке	

Step 5: Click rightarrow icon and then select the Active X control, the welcome interface will be shown. Click "Continue"→"Install" button, the following window will pop up :

😑 🔿 🔿 😓 Install WebClientPlugin-64	Downloads		
Welcome to the WebClientPlugin-64 Installer	in-64.pkg	Type your password to a	allow Installer to make
Introduction Destination Selec InstallationCrypt	8 Downloads	Name: coodoo	
Installation Summat Go Back Continue		Password:	Cancel OK

Input the name and password of Apple PC and then click "OK" to install this Active X control.

Step 6: After finishing installing the Active X control, please quit from the Safari browser. Right click icon on the desktop and then select "Quit" button to quit the browser. Then restart Safari browser. Input the IP address and http port to enter into the login interface of DVR.

7.7.2 On WAN

There are also two ways for DVR to connect to Internet.

1. Connect the DVR to internet through router or virtual server

Step 1: The network setups are the same as step one to step four of point 1 on WAN of IE remote surveillance.

Step 2: Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.

2. Connect the DVR to internet directly.

Step 1: The network setups are the same as step one of point 2 on WAN of IE remote surveillance.

Step 2: Enter WAN IP and http port in the Safari browser to install the Active control. The concrete steps are the same as step 5 and 6 of Chapter 7.2.1.



7.8 The remote live preview interface



Fig 7-2 Remote live preview interface

Symbol and function Definitions:

1	Channel indicator	2	Screen display mode	3	Volume
4	Snapping picture	5	Start manual record	6	Start IE record
\bigcirc	Bidirectional talk	8	Playback	9	Color
(10)	PTZ control	(1)	Master/sub stream status		

Note: click 💼 button to record manual and the record file will be saved in user's PC.

Screen display mode:

Click the ricon beside the screen display mode, channel select dialog will appear as below: Take 8-channel DVR for example: user can tick off channels form 1-ch to 16-ch at random to display the

live pictures, 8 channels can be selected at most. Then click OK button to confirm the setting.

~	🗹 01	2 02	V 03	0 4
V	20 🗹	2 06	0 7	V 08
	09	🗌 10	11	12
	13	14	15	16

Fig 7-3 Channel select dialog

Snap pictures

Click "Snap" icon, the system will automatically capture pictures and save those pictures in the computer. User should set up the save path for those picture in the Remote Preview interface \rightarrow Configuration \rightarrow Local configuration.

Color adjustment:

Drag the slide bar to adjust Brightness, Contrast, Hue, and Saturation. Click Default to reset them to original value.

Buttons	Description					
<u>نې</u> 0	Drag the scroll bar to adjust the brightness of					
	Charmen					
🙆 ()	Drag the scroll bar to adjust the contrast of channel					
••• 0	 Drag the scroll bar to adjust the saturation of channe 					
• 0	Drag the scroll bar to adjust the hue of channel					
0	Click this button to recover the default value of brightness, contrast, saturation and hue.					
	Save the adjustment					

PTZ control

Please connect speed dome to the device via RS485 firstly, make sure the protocol of the speed dome is supported by the device and set the relative parameters manually. User can control the dome up, down, right, left or stop rotating on Control Center, adjust rotation speed, Iris and zoom, focus on the dome, and set the presets, etc.

Buttons definition:	
Buttons	Description
	 means the dome rotate up. The ans the dome rotate up left. The ans the dome rotate up right the dome rotate down. The means the dome rotate left down. means the dome rotate right down. The ans the dome rotate left. The ans the dome rotate right. The ans the dome stop rotating.
	Drag the scroll bar to adjust rotating speed of the dome.
- • +	'Iris' button. Click +button near 'Iris' button to increase light of the dome. Click button near 'Iris' button to decrease light of the dome.
- • +	'Zoom' button. Click 🛨 button near 'Zoom' button to zoom in the locale picture of this
	camera. Click button near 'Zoom' button to zoom out the locale picture of this camera.
- • +	'Focus' button. Click + button near 'Focus' button to have long focus. Click button near 'Focus' button to have short focus.
↗.	Go to the Preset
	Select and do auto cruise
	Track
\bigcirc	Auto scan
	Wiper button
	Light button

Click the right mouse on the live interface, a pull-down menu will appear as below

	Master Stream
۲	Sub-stream
	All to Master Stream
	All to Sub-stream
	Enable Audio
	Full Screen
	zoom in 🔹

Fig 7-4 right key sub menu

Stream: this DVR supports master stream and sub stream. Master stream has higher frame rate, max 25FPS (PAL) /30 FPS

(NTSC) for every channel, but it needs higher network bandwidth simultaneously; second stream has low frame rate, max 6FPS

(PAL)/7FPS(NTSC) for every channel, it requires low network bandwidth. Therefore, users can select the stream according to their bandwidth.

All to master/sub stream: set all channel to master stream or sub stream.

Enable audio: enable or disenable audio

Full screen: In full screen status, the live preview picture will display with full screen and the tool bar will be hided; double click left mouse or click right mouse to return

Zoom in: Single channel large screen electronic amplification

7.9 Remote playback & backup

7.9.1 Remote playback

Click button to enter into record playback interface, refer to Fig 7-5:

Select the record date and channels and double-click the file name in the record file list box. Then user can play that file and preview the picture.



Fig 7-5 Play record file interface

This DVR supports remote time search, event search and file management.

By Time Search:

Step1: Enter into Search→time search; refer to Fig 7-6:



Fig 7-6 time search interface

Step2: click "Search" button. The record data will be displayed in the data information list box; the highlight date in the area2

means have record data, click those data; select the record channels in area3

Step3: User can set the data playing time and display mode in the area① as required

Step4: Select certain item from the data information list box. Click "play" button to playback

Step5: Click the relevant buttons in the interface and then user can do some operations such as: FF, pause, change channel mode,



Fig 7-7 Time search playback

By Event Search:

Step1: Enter into Search→event search; refer to Fig 7-8:

		be		End time	e	Start tin	CH
		ion		2010-01-09 00:02:16	:01:07	2010-01-09 0	1
		ual		2010-01-09 01:24:11	:03:28	2010-01-09 0	1
-		ion		2010-01-09 00:09:31	:08:36	2010-01-09 0	1
Search		ion	1 3	2010-01-09 00:10:58	:10:10	2010-01-09 0	1
2000	8 () ·	ion		2010-01-09 00:12:15	:11:30	2010-01-09 0	1
M Jan	10	ion 20:		2010-01-09 00:15:43	:14:48	2010-01-09 0	1
Tue Wed Thu Fri S	n Mon	ion		2010-01-09 00:17:09	:15:45	2010-01-09 0	1
5 6 7 8	4	ual 3		2010-01-09 02:46:11	:24:11	2010-01-09 0	1
12 13 14 15) 11	ual 10		2010-01-09 03:19:45	:46:11	2010-01-09 0	1
19 20 21 22	18	ual 17		2010-01-09 17:57:12	:39:52	2010-01-09 1	1
26 27 28 29	25	ion 24		2010-01-09 00:01:53	:01:07	2010-01-09 0	2
		ion	1 3	2010-01-09 00:03:01	:02:18	2010-01-09 0	2
	V 1	ion		2010-01-09 00:04:12	:03:01	2010-01-09 0	2
		ual 🖂		2010-01-09 00:54:27	:03:32	2010-01-09 0	2
		ion		2010-01-09 00:15:03	:14:22	2010-01-09 0	2
		ion		2010-01-09 00:22:35	:21:54	2010-01-09 0	2
3 🗹 14 🔽 15 🔽 1	13	ion	1	2010-01-09 00:24:33	:23:51	2010-01-09 0	2
		ion		2010-01-09 00:25:54	:25:12	2010-01-09 0	2
Mation		ion		2010-01-09 00:28:43	:26:57	2010-01-09 0	2
Concert		ion	3	2010-01-09 00:32:30	:31:48	2010-01-09 0	2

Fig 7-8 event search interface

Step2: click the highlight date and select record channels and then tick off the event type: motion and sensor. Then click "search" button

Step3: the events will be display in the event list box and then double-click certain item to playback

File Management

Step1: Enter into Search→file management; refer to Fig 7-9:

File list					
Check	Channel	Start time	End time	Status	
	1	2010-01-09 00:01:07	2010-01-09 00:02:16	motion	
	1	2010-01-09 00:03:28	2010-01-09 01:24:11	manual	
	1	2010-01-09 00:08:36	2010-01-09 00:09:31	motion	
1	1	2010-01-09 00:10:10	2010-01-09 00:10:58	motion	Search
	1	2010-01-09 00:11:30	2010-01-09 00:12:15	motion	
	1	2010-01-09 00:14:48	2010-01-09 00:15:43	motion	2010 Y Jan
 Image: A start of the start of	1	2010-01-09 00:15:45	2010-01-09 00:17:09	motion	Sun Mon Tue Wed Thu Fri Sat
	1	2010-01-09 01:24:11	2010-01-09 02:46:11	manual	3 4 5 6 7 8 9
	1	2010-01-09 02:46:11	2010-01-09 03:19:45	manual	10 11 12 13 14 15 16
	1	2010-01-09 17:39:52	2010-01-09 17:57:12	manual	17 18 19 20 21 22 23
	2	2010-01-09 00:01:07	2010-01-09 00:01:53	motion	24 25 26 27 28 29 30
	2	2010-01-09 00:02:18	2010-01-09 00:03:01	motion	31
	2	2010-01-09 00:03:01	2010-01-09 00:04:12	motion	
	2	2010-01-09 00:03:32	2010-01-09 00:54:27	manual	
1	2	2010-01-09 00:14:22	2010-01-09 00:15:03	motion	
	2	2010-01-09 00:21:54	2010-01-09 00:22:35	motion	
	2	2010-01-09 00:23:51	2010-01-09 00:24:33	motion	
	2	2010-01-09 00:25:12	2010-01-09 00:25:54	motion	
	2	2010-01-09 00:26:57	2010-01-09 00:28:43	motion	
	2	2010-01-09 00:31:48	2010-01-09 00:32:30	motion	
A11	None	Inverse 0/0			
			Lock Unloc	ck Delete	

Fig 7-9 file management interface

Lock: select certain file item in the file list box and then click "Lock" button to lock this file that ca not be deleted or overlaid Unlock: select a locked file and then click "unlock" button to unlock this file

Delete: select an unlock file and then click "delete" button to delete this file from file list

7.9.2 Remote backup

Click Backup button to enter into backup interface, refers to Fig 7-10:

File list									
	СН	Start time	End time	Status			-	-	
	1	2010-01-09 00:01:07	2010-01-09 00:02:16				0)	
	1	2010-01-09 00:03:28	2010-01-09 01:24:11				9	<	
	1	2010-01-09 01:24:11	2010-01-09 02:46:11						
	1	2010-01-09 02:46:11	2010-01-09 03:19:45				21830 T		J
	1	2010-01-09 17:39:52	2010-01-09 17:57:12				Sear	ch	
	2	2010-01-09 00:01:07	2010-01-09 00:01:53						
	2	2010-01-09 00:02:18	2010-01-09 00:03:01		6	Start ti	me		
	2	2010-01-09 00:03:01	2010-01-09 00:54:27		Γ	2010-	01-12	25	
	2	2010-01-09 00:54:27	2010-01-09 01:47:11		Ī	00 : 0	0 : 00)	
	2	2010-01-09 01:47:12	2010-01-09 03:09:10						
	2	2010-01-09 03:09:10	2010-01-09 03:19:45			2010	01 10		
2	2	2010-01-09 15:11:08	2010-01-09 15:11:54			2010-	9 - 50	25	
	2	2010-01-09 15:16:17	2010-01-09 15:17:03		L	20.0	0.00		
	2	2010-01-09 15:19:30	2010-01-09 15:20:17						
100	2	2010-01-09 15:21:54	2010-01-09 15:22:41						
	2	2010-01-09 15:23:20	2010-01-09 15:24:04						
	2	2010-01-09 15:28:09	2010-01-09 15:28:53						
	2	2010-01-09 15:37:23	2010-01-09 15:38:09			1	2	3	☑ 4
	2	2010-01-09 15:46:09	2010-01-09 15:46:52			5	6	7	8
	2	2010-01-09 15:53:33	2010-01-09 15:54:19						
A11	ull Inve	rt							
File path			Brow	se Backkup					

Fig 7-10 remote backup interface

Step1: select channels, set the start and end time and then click "search' button to display the file information in the file list box Step2: select backup files and click "browse" button to set the save path. Then click "backup" button to start backup. The backup files will be saved on user's PC.

7.10 Remote System configuration

User can remote setup the parameters of the device. Functions of remote configurations include: basic configuration, live configuration, record configuration, schedule configuration, alarm configuration, network configuration, PTZ configuration and user configuration. User should firstly select an item in the menu list on the left, and then setup the relative parameters. When one user setup parameters of a certain item, others cannot setup this one. Click Config to enter into the below interface refer to Fig 7-11:

								Apply	Defaul
ζΩ.	Local Cor	nfig							
Basic	Local Vi	ew							
	Snap Pat	th		E:\				1	Browse
Live	Snap Am	nount		4					
Record	Remote	Playback							
	Snap Pat	th		C:\Users\kevir	\Documents				Browse
5 Schedule	Snap Am	nount		10					
Alarm	Local Re	ecord							
	Save Pat	th		F:\15					Browse
Network	Save Pat Record C	th Channel		F:\15					Browse
Network	Save Pat	ch Channel	2	F:\15	₹4	☑ 5	▼ 6	7	Browse ⊠ 8
Network	Save Pat Record C	th Channel I 1 I 9	₹ 2 ₹ 10	F:\15	₹ 4 ₹ 12	₹ 5	 ✓ 6 ✓ 14 	✓ 7✓ 15	Image: Strowse Image: Strowse Image: Strowse Image: Strowse Image: Strowse Image: Strowse
Network P.T.Z Users	Save Pat Record C	channel	✓ 2✓ 10	F:\15	✓ 4✓ 12	▼ 5 ▼ 13	 ✓ 6 ✓ 14 	✓ 7✓ 15	Ørowse

Fig 7-11 remote menu setup

The sub menu lists and the options in every item are similar with those on the DVR. Please refer to Chapter 3 Main Menu Setup Guide for more details.

Click "Apply" button to save above settings; click "default" button will recover the original settings.

7.11 Remote Management

Remote Information Search

The system will automatically record the working condition and operation process during the period of work. User can view information, such as username, IP address and so on. Enter into INFO \rightarrow Log. User can set the start time to view the log record as follows:

	LIVE	SEARCH	BACKUP	CONFIG	TOOLS	INFO
System						
- Oystelli	Log List					
	Туре	User Name	Time	IP Address		
Event	Backup Finished	admin	2010-08-09 11:09:42	127.0.0.1		
~	Logon	admin	2010-08-09 11:07:58	172.16.31.232		
3 • • • • • •	Logoff	admin	2010-08-09 11:07:53	172.16.31.232		
Log	Logon	admin	2010-08-09 11:07:25	172.16.31.232		
	Logon	admin	2010-08-09 11:07:23	172.16.31.232	Start Time	
Network	Logoff	admin	2010-08-09 11:07:13	172.16.31.201	2010-08-09	25
	Logoff	admin	2010-08-09 11:07:13	172.16.31.201	00 : 00 : 0	0
	Modify Settings To Handle Vid	admin	2010-08-09 10:39:48	172.16.31.201	End Time	
	Change Settings To Handle Se	admin	2010-08-09 10:39:16	172.16.31.201	2010-08-09	25
	Change Settings To Handle Se	admin	2010-08-09 10:39:16	172.16.31.201	23 : 59 : 5	9
	Change Settings To Handle Se	admin	2010-08-09 10:39:16	172.16.31.201		
	Change Settings To Handle M	admin	2010-08-09 10:38:51	172.16.31.201		
	Change Settings To Handle M	admin	2010-08-09 10:38:51	172.16.31.201	System Contro	l.
	Modify Area For Motion Detect	admin	2010-08-09 10:38:51	172.16.31.201	Config	
	Change Settings Of Inbox	admin	2010-08-09 10:37:24	172.16.31.201	Dbuback	
	Change Settings Of Outbox	admin	2010-08-09 10:37:24	172.16.31.201	Playback	
	Logon	admin	2010-08-09 10:34:26	172.16.31.201	Backup	
	Add User	admin	2010-08-09 10:33:40	172.16.31.201	Media Search	
	Add User	admin	2010-08-09 10:33:35	172.16.31.201	View Informat	ion
	Add User	admin	2010-08-09 10:33:29	172.16.31.201	Frror	
	1/5 Export Path					
			Browse	Export		

Fig 7-12 Remote information search

Note: There may be subtle differences with respect to functions of remote surveillance between through IE and through Apple PC. Here we only take IE remote access for example.

8 Mobile Surveillance

This DVR supports mobile surveillance by Iphone, Gphone , blackberry or smart phones with Windows mobile and symbian OS. At the same time, it supports 3G network. We tested Dopod D600 (WM5) and Dopod S1 (WM6), which work fine with the DVR. It wants to make mobile surveillance, need first enable network service on the DVR, and refer to Chapter 4.6 Network configuration. The below is the use instructions on mobile client end for two OS.

8.1 By Phones with Windows mobile

Step1: Firstly activate the network access on mobile phone and then run "Internet Explorer". Input the server's address and the connection is built up shown as below picture in the left:

Step2 : Click on the software name. A dialog box pops up as below picture in the middle:

Step3 : Click "Yes" to start downloading and installing:

Step4 : PCam will be opened automatically after installed. Refer picture in the right:



Step5 : Input the server's address, ID and password respectively in the columns of "Server", "User" and "Password", and click "Go" to log on the server. It will show the picture if access successfully. Refer below picture in the left:

Step6 : Camera 1 is the default channel after login. Change the channel in rolling-down menu of "Channel": refer below picture in the right:



8.2 By Phones with Symbian

Please use the smart phones with symbian version supported by this unit. The detail information is as follows:

Symbian S40	support
Symbian UIQ	support
Symbian S80	support
Symbian S60	support
Symbian S60 3 rd Edition-Symbian OS v9.1	support
Symbian S60 3 rd Edition with FP 1-Symbian OS v9.2	support
Symbian S60 3 rd Edition with FP2-Symbian OS v9.3	support
Symbian S60 5 th Edition-Symbian OS v9.4	support
Symbian S60 5.1 Edition-Symbian OS v9.5	support

Step1 : Firstly enable the network access on mobile phone. Then run Web browser.

Step2 : Input the DVR server's IP address in a new-built bookmark. Click this bookmark to connect to the DVR. Refer picture in the left:

Step3 : A welcome window will pop up and requires a package. Click the software name to download. Refer picture in the right:

Bookmarks	♥ WebCam WELCOME
Web feeds Saved pages Auto. bookmarks	The mobile phone was detected based on Symbian S60 3rd. We recommend that you download this <u>SCam S3 080919.sis</u> to install.
Shttp://210.21.229.142:111:	SuperDVR components
Go to Cancel	Options Close

- Step4 : A security windows will pop up after downloading and ask if install the package. Click YES to install.
- Step5 : A Scam shortcut icon appears on the system menu after finished.
- Step6 : Run Scam program. It will enter a function interface. Refer picture in the left:
- Step7 : Click System setting--->Login Setting to enter login interface. Refer picture in the right:

Live view: to do mobile live view. Image view: to check the pictures Snapped in live view. System setting: Login setting ... And Alarm setting. Help: function indication and help

		o in alo light.
6	Pocket Camera	K Login Setting
۳ 📰	۵	* 57 \
80	Live View	HttpPort:
-		1110
<u> </u>	Image View	Username:
S.L	Custom Catting	Admin
*	System Setting	Password:
?	Help	*****
,		AccessPoint:
		Winsock
ок	Cancel	Options B

Back

Step8 : Input the server's address, ID and password respectively. Then save.

🖞 **Notice**: About Access point, there may be different access points in different countries or from service providers.

Step9 : Enter Live View, it will connect the server and display pictures. Refer picture in the left:

Notice: User name and password here are the same with that used on the DVR. The default is admin and 123456. **Step10** : In Live View, users can do snapshot, change channels and control PTZ. Refer picture in the right:



8.3 The Software installation for iPhone mobile clients

1. Install through iphone.

Step 1. Open App Store function of iphone.

Step 2. Enable "search" SuperCam".



Step 3: Click SuperCam, enter into "introduce" interface and then click "FREE", it will change into "INSTALL"

📲 China Unicom 🗢 🛛 11:01 am 🖇 🕸 💳	🞿IChina Unicom 🗢 11:01 am 🛛 🛞 🚍
Search Info	Search Info
SuperCam_Pro TVT Digital Technology Co	SuperCam_Pro TVT Digital Technology
SuperCam is a professional mobile phone client software for digital video recorders and IP cameras in CCTV surveillance (compatible models only).	SuperCam is a professional mobile phone client software for digital video recorders and IP cameras in CCTV surveillance (compatible models only).
Support single Multi-channel monitor switching. Simport PT2 control Support channel video capture,record and record Jayback Support channel audio Support channel audio Support audio, shake alarm. Support audio, shake alarm. Support audio server information query. Support electronic zoom (fullscreen mode) Support electronic zoom (fullscreen mode) Support electronic zoom (fullscreen mode) Putper event files to Ablum on IPhone, then you can transport these files to PC Py Trunes.	Support single Multi-channel monitor switching. Ssupport channel video capture,record and record playback Support channel video capture,record and record playback Ssupport server list. No limit on the number of Ssupport audio, shake alarm. Ssupport audio, shake alarm. Ssupport backup record files to Ablum on Phone, then you can transport these files to PC by frumes.
Featured Categories Top 25 Search Updates	Featured Categories Top 25 Search Updates

Step 4: Input iTunes Store password and then click "OK", the software will be installed automatically.



Note: if it was the first time for user to operate, please enter user ID; if there is no Store account, user needs to apply one. 2. Install through PC.



Step 1: Install iTunes store in PC and then login



Step 2: Connect iPhone and PC



Step 5: Tick off "synchronously apply program" and "SuperCam", and then click "apply" button

Operation Instruction for SuperCam (iphone)

9. Login interface

SuperCam				
Server:	user.meibu.com:5008			
Username:	admin			
Password:	*****			
	Remember server			
Log	gin Cancel			

Enter server's IP address (or domain name), user name and password Click "Remember server" to save the setting; click 🔍 button can quick input saved server address, user name and password.

10. Main Interface



[Playback]	playback record file	[Image]	image view		
[Log]	log record	[Server List]	device list		
[Live]	live view	[Settings]	software setting		
[Information]	device information view	【Help】	software help center		
[Logoff]	logoff and return to login interface				

11. Live View Interface

	LiveView	Percur Pizz Control UPDPUS UN 01 UPDPUS UN 01 UPDPUS UN 01 UPDPUS UN 01 </th <th>Peter Peter Peter Peter Peter Peter Peter</th>	Peter Peter Peter Peter Peter Peter Peter	
Mark 1	Current viewing channel	Mark 2	Channel status	
	Switch channels	ē	PTZ, click to switch to Fig 2 interface	
Ô	Snap picture	REC	Record	
	Close the video of the current channel	4 »	Live audio	
	Switch to the single image		Switch to four images	
	Upward rotates the PTZ		Downward rotates the PTZ	
	Leftward rotates the PTZ		Rightward rotates the PTZ	
	Stop rotating the PTZ	÷	Zoom In/Focus In/Iris Add	
Θ	Zoom Out/Focus Out/Iris Sub	Preset	elect the preset point	
Group	Set the cruise line	Speed	Rotate speed of the PTZ	
H-Reverse	Horizontal- Reverse	V-Reverse	Vertical- Reverse	
- 12. Image view interface, refer below picture in the left:
- 13. Record Playback interface, refer below picture in the right:





Click the record file to playback.

- 14. Server list Interface, refer to below picture in the left:
- 15. Config interface, refer to below picture in the right:

Return Favorites		Return Settings Storage:
Server20100407092804 Address: demo.tvt.net.cn:5204		Record file clip size:
Server20100407155052		2MB 4MB 6MB 8MB 10MB 12M
		Reservered disk space: 1 M Display:
		Display mode:
		One Four
	🗛 Add a server list	Remember display order:
	Modify a server list	Alarm:
Add Modify Delete	Delete a server list	Shake alarm: OFF

Main parameters for mobile phone video config

Record file clip size: Single video size. When the video size is greater than setup value, change another video files **Reserved disk space**: Reserved SD Card disk space, when the disk space is less than setup value, the video will be stopped **Display** config :

Display mode: User can select one live picture display or four live picture displays

Remember display order: User can choose whether to remember display order or not.

Alarm config : Select Audio Alarm. When Video Loss/Sensor/Motion happens , trigger sound alarm. Select shake Alarm. When Video Loss/Sensor/Motion happens , trigger vibrate alarm.

16. Information View Interface

SuperCam	Device name: the current device name
Device:	Device ID: the current connection device ID
Device Name: DVS	Software version: the current connection device
Device ID [.] 0	software version
Software version: 2070100	Build date: the current connection device build date
Build date:20100401	Software version: the software version of mobile
Phone:	phone in use
Software version: 2.1.2	Software build date: the software build date of mobile
Software build date:2010.05.15	phone in use

8.4 The installation & operation methods for Android mobile clients Software Installation



Digital	Video	Recor	der L	lser N	lanı	ıal
December 17, 2009	4:51 PM		Ŷ		36 m C	G 16:58
Clear noti	fications			6		
Ongoing					(#)	0
B USB connected Select to copy files to/from your com	outer.		Apk	APN		Email
Notifications			_		-	~
La SuperCam Finish install	4:51 PM		Gmail	Google Maps	Google Talk	Calculator
Add E-mail	4:00 PM		1	2	1	z
E* 10655111			Contacts	Browser	Market	Gallery
5 unread messages. 20	09-12-14				_	
			Alarm Clock	Calendar	SIM	SuperCam

Step 5: user can view the download and install process in notifications; finished download, the software will install automatically.

Login



Enter into server's IP address (or domain name), user's ID and password. Click "Remember server" to save the setting; click 🔍 button can quick input saved server address, user name and password. Main menu



[Playback]	playback record file	[Image]	image view
[Log]	log record	[Server List]	device list
[Live]	live view	[Settings]	software setting
[Information]	device information view	【Help】	software help center
[Logoff]	logoff and return to login in	terface	

Live view





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Digital Video Recorder User Manual

Mark 1	Current viewing channel	Mark 2	Channel status
	Switch channels	Ī	PTZ, click to switch to Fig 2 interface
ō	Snap	REC	record
æ)	talk	€	Live audio
\simeq	Full screen	\$	Return
	Upward rotates the PTZ		Downward rotates the PTZ
<	Leftward rotates the PTZ		Rightward rotates the PTZ
	Stop rotates the PTZ	Ð	Zoom In/Focus In/Iris Add
Θ	Zoom Out/Focus Out/Iris Sub	Preset	Select the preset point
Group	Set the cruise line		

Image view



4 1	Previous	1)	Next
Q	Zoom out	Î	Delete
Ð	Zoom in	×	Return to main menu

Record playback



Π	Play/pause
\times	Full screen
	stop
*	Return to record file interface (Fig 3)

(Fig 3) (Fig 4) Click the record file (Fig 3) to playback (Fig 4)

Server list



Config interface



Digital Video	Recorder	User Manual	
---------------	----------	-------------	--

Alarm setting	Tick off Sound Alarm , when Video				
	Loss/Sensor/Motion happen , trigger sound alarm;				
	Tick off Vibrate Alarm, when Video				
	Loss/Sensor/Motion happen , trigger vibrate alarm				
Storage setting	User can setup the relevant parameters of mobile video. This function can be valid only insert SD card.				
Path	Save path for mobile video files, the default catalog is				
	/SDCard/. Click 🚞 button to change path.				
Reserved disk space	reserved SDCard disk space, when the disk space is				
	less than setup value, the video will be stopped				
Video clip size	Single video size. When the video size is greater than				
	setup value, change another video files				
Remove all recorder	delete all current video files				
files before					

Information view

Device:

SuperCam

Device ID:

Software version: 2070100 Build date:20100401

Phone:

Software version: 2.1.2 Software build date:2010.05.15 Device ID: the current connection device ID

Software version: the current connection device software version

Build date: the current connection device build date

Software version: the software version of mobile phone in use

Software build date: the software build date of mobile phone in use

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8.5 Installation and operation Methods for BlackBerry Mobile phone Client

- 8.5.1 Installation instruction for BlackBerry Mobile phone Client
- 1. Open the browser of BlackBerry phone and enter sever address
- 2. Click "SuperCam" to link





4. Finished downloading, the software will be installed automatically.

		1	
Download S	Supe	rCam ිස් 3	g TII
Name:		Supe	rCam
Versi	<u>.</u>		2.0
Vendor	:	The application was	own>
Size:		successfully installed.	5.3KB
		OK Run	

В

Note: If the software fails to download, please check in accordance with the following steps:

- 4. Check whether the network of mobile phone is normal or not
- 5. Check whether DVR server connect network normally or not
- 6. Modify the option of Browser Configuration.
- (1) Enter into Menu->Option->Browser Configuration; configure referring to the following figure in the left.
- (2) Enter into Menu->Option->Cache Operations, clear up browser cache. Refer below picture in the right:

Browser Configuration		Cache Operations	
Browser:	Browser		Clear History
 Support JavaScript Allow JavaScript popups Terminate slow running scripts Use Background Images 		Content Cache	Size: 2.7K Clear
Support Embedded Media Show Images: On WML & HT Browser Identification: B Start Page: S	ML Pages lackBerry tart Page	Pushed Content Cookie Cache	Size: 0.0K Size: 0 cookies
Home Page Address: about:start			

Note : When user used the SuperCam software in mobile phone with touch screen, there will be compatible problem. Solution: Enter into Options Menu->Advance options->Applications->SuperCam and click "Disable Compatibility" button. This problem will be solved.

8.5.2 Operation method for Blackberry mobile phone client

7. Login

SuperCam		
Address:	user.meibu.com:60	¥
Username:	admin	
Password:	*****	
	🛩 Remember server	
Log	jin Exit	

Enter server's IP address (or domain name), user's ID and password.

Click "Remember server" to save the setting; click 🔍 button can quick input saved server address, user name and password.

8. Main interface



Playback	playback record file	Image	image view
Log	log record	Server List	device list
Information	device information	Help	software help
	view		center
Logoff	logoff and return to	Settings	software setting
	login interface		
Live	live view		

9. Live view





Note: User can click

Return button on the Blackberry phone to return the previous interface.

Mark 1	Current viewing channel	Mark 2	Channel status	
	Switch channels		PTZ, click to switch to Fig 2 interface	
Ō	Snap	×	Full screen	
M	Background alarm		Stop rotating the PTZ	
	Upward rotates the PTZ	-	Downward rotates the PTZ	
	Leftward rotates the PTZ		Rightward rotates the PTZ	
\oplus	Zoom In/Focus In/Iris Add	Θ	Zoom Out/Focus Out/Iris Sub	
Preset	Select the preset point	Group	Set the cruise line	

10. Server list

11. Software configuration

6		SuperCam	
		Alarm type:	
address: wanjunjie.meibu.com:6058		🖉 Video loss	
🕎 Street	and a start start and a start	🥪 Motion alarm	
address: 192.168.3.142:1111	[Add] Add a server list	✓ Sensor alarm	Alarm type: Setup the type of background alarm
	11 a dif d	Alarm output type:	(Video Loss/Sensor/Motion)
Add ina	[MOONY] Modify a server list	🖉 Audio alarm	Alarm output type: Setup prompt type of backgound
Modify Delete ress: democracy.meibu.com:6037	[Delete] Delete a server list	✓Vibrate alarm	Alarm (sound alarm/ hibrate alarm)

12. Information view

SuperCam Device: Device name: EDVR Device ID: 0 Software version: 3.1.2.P Build date: 19740305 Phone: Software version: 2.1.0 Build date: 2010.08.16

Device ID: the current connection device ID

Software version: the current connection device software version

Build date: the current connection device build date

Software version: the software version of mobile phone in use

Software build date: the software build date of mobile phone in use

Appendix A FAQ

Q1. Why the DVR cannot start after connected to the power?

a. The adapter has been damaged. Please change an adapter

- b. The power of the adapter is not enough. Please remove the HDD to check
- c. Hardware problem

Q2. There is not menu output or only has live image display

a. Check up whether other devices can display menu or long press ESC key to wait for login dialog box to appear.

Q3. The indicator of the DVR lights, but no output. Why?

- a. The power of the adapter is not enough. Please remove the HDD or change an adapter to try.
- b. The video format of the DVR is different from that of the monitor.
- c. Connection problem. Please check the cable and the ports of monitor and DVR.

Q4. Why are no images displayed on parts or all of the channels of the DVR?

- a. Connection problem. Please check the cable and the ports of camera and DVR.
- b. Camera problem. Please check the cameras.
- c. The video format of the DVR is different from that of the cameras. Please change DVR system format.

Q5. Cannot find HDD

- a. The power of the adapter is not enough. Please change an adapter to try.
- b. Connection problem. Please check the power and data cables.
- c. The HDD is damaged. Change a new one.

Q6. Cannot record

- a. Don't format HDD. Please format it manually first.
- b. Don't enable record function or incorrect setup. Please refer to Chapter 5 Record search & playback and backup.
- c. HDD is full and not enables recycle function. Please refer to 4.3 Record configuration. Chang a new HDD or enable recycle.
- d. The HDD is damaged. Change a new one.

Q7. Cannot use mouse.

- a. wait 1-2 minutes after mouse connected.
- b. Not detected. Plug/unplug several times.
- c. The mouse is incompatible. Please change a mouse.

Q8. Cannot download ActiveX control.

- a. IE browser blocks activeX. Please do setup following below.
- ① Open IE browser. Click Tools-----Internet Options....

🕘 abou	🗿 about:blank - Microsoft Internet Explorer					
File Ed	lit	View	Favorites	Tools	Help	
🕞 Back 👻 🌍 👻 💌				Mail and News Synchronize Windows Update		
				Shov	w Related Links	
				Inte	rnet Options	

② select Security-----Custom Level····.Refer to Fig 8-1

- ③ Enable all the sub options under "ActiveX controls and plug-ins" refer to Fig 8-2
- ④ Then click ok to finish setup.
- b. Other plug-ins or anti-virus block activeX. Please uninstall or close them.

Internet Options	Security Settings
General Security Privacy Content Connections Programs Advanced	Settings:
Select a Web content zone to specify its security settings.	💿 Enable 🔼 🔥
	Download signed ActiveX controls
	Disable
Internet Local intranet Trusted sites Restricted	💽 Enable
sites	_ O Prompt
Internet	Download unsigned ActiveX controls
This zone contains all Web sites you	Disable
haven't placed in other zones	
	OPrompt
Security level for this zone	Initialize and script ActiveX controls not marked as safe
Custom	
Custom settings	Breach
To change the settings, click Custom Level.	
 To use the recommended settings, click Default Level. 	<
	- Recet curter cettings
	Reset custom settings
Custom Level Default Level	Reset to: Medium 🗸 Reset
OK Cancel Apply	OK Cancel
Fig8-1	rig8-∠

Q9: How to deal with when DVR starts, it displays "please wait..." all the time First possible reason: hard-disk cable and data cable are not well connected.

Solution: Please check the connection of hard-disk cable and data cable and make sure they are well connected; If still not working, please unplug them and then try re-plugging again;

Second possible reason: It is forced to stop because hard disk has disabled track which causes the system checking hard disk cannot skip

Solution: Change another new hard disk or reformat the broken one

Q10: How to input password and digital numbers

The method to input password and digital numbers is to click the box behind *password* or *items* needing to input by numbers, and then the small keyboard will appear. Please select number or letter to input (the initial password is 123456), or you can use the digital keys in the front panel, or the digital keys on the remote controller.

Q11: Why is the hard disk used in a DVR identified a new hard disk if directly used to another same type DVR? And why must we format it again?

When DVR only uses one hard disk, the hard disk removed from one to another same type DVR can work normally without format. However, when a DVR adds to a new hard disk, it will identify the hard disk as a new one and inquire whether to format no matter whether this hard disk used or not in another same type DVR before. In this condition, it can be used normally after formatted according to the guide; if two or more hard disks used in different DVRs, when used in another DVR with the same type, they will be identified to be two or more new hard disks, and all of them need to format. In general, please do not try using more disks removed from different DVRs into another one in case the data lose.

Q12: What are the minimum configurations of PC for clients connecting?

PC Module	Parameters
CPU	Intel Celeron 2.4G
Motherboard	Intel 845
HDD	80G

RAM	512M
VGA	NVIDIA GeForce MX440/FX5200
	ATIRADEON 7500/X300
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) /VISTA
DirectX	9.0

Q13: What are the PC configurations for 16-ch real time product with fully open channel mainstream?

PC Module	Parameters
CPU	Intel Core(TM)2 Duo CPU E4600
Motherboard	G31/P31 chip
HDD	80G
RAM	1GB
VGA	GMA3100/NVIDIA GeForce 8400/
	ATI RADEON HD3450
OS	Windows 2000(SP4 above) /Windows XP(SP2 above) VISTA
DirectX	9.0

Q14: How to handle the situation when codec Control is blocked to install in the VISTA or Win7 system?

If user gets this problem, may have two ways to fix it:

a. Enter Control Panel→User Account and Family Safety → User Account Control(refer to below picture); click Turn User Account on or off. Cancel Use User Account Control (UAC) to help protect your computer.



b. Right click IE browser (refer to Fig 14-2), select Run as administrator to run browser.

	Open	
	Open file location	
۲	Run as administrator	
	Restore previous version	s
	Send To	•
	Cut	
	Сору	
	Create Shortcut	
	Delete	
	Rename	
	Properties	

Appendix B Calculate Recording Capacity

Users can calculate the size of hard disk according to the saving time and DVR recording settings. The DVR uses fixed video bit rate. The below are the details at different settings.

Video Format	Resolution	Frame Rate Totally(FPS)	Video Quality	Bit Rate (kbps)	Used Space(MB/h)
		30	Highest	1M	465
			Higher	768k	297
NTSC	CIE		Medium	512k	230
NISC	CIF		Low	384k	173
			Lower	256k	115
			Lowest	128k	56
PAL	CIF	CIF 25	Highest	1M	466
			Higher	768k	295
			Medium	512k	235
			Low	384k	175
			Lower	256k	112
			Lowest	128k	56.4

The calculation format is: Total Recording capacity =Used space per hour (MB/h) (coverage rate of hard disk) × recording time (hour) × channel numbers

For instance, one customer uses PAL cameras, set resolution to CIF, video quality to Lowest, frame rate to 25 fps for enabling total 16 channels. He wants the unit to record continuously in a month. Below is the calculation:

Total Recoding capacity =56.4 (mb/h) X 24(hours/day) X30(days) X16(channels)= 649728(MB)≈650(GB) Therefore, customers just install two SATA HDDs with 320GB, it can almost record for one month. Appendix C Compatible Devices

1. Compatible USB drive after test.

Brand	Capacity
SSK	512MB, 1G, 2GB
Netac	4GB
Kingston	2GB
Aigo	2GB
Smatter vider	1GB
SanDisk	4GB

2. Compatible SATA CD/DVD writers after test

Brand	Model
TECLAST	GH22NP20/TL-22XD
BENQ	DW220S-0K4
LITEON	DH—20A6S01C
LITEON	DH-20A4P02C
SAMSUNG	TS-H653B

3. Compatible HDD list

Brand	Capacity
Seagate Barracuda LP ST3200542AS	2TB
Seagate Barracuda 7200.11 ST31500341AS	1.5T
Seagate SV35.3 ST31000340SV	1T
Seagate Pipeline HD.2	500G
Seagate Barracuda 7200.10	320G
Seagate Barracuda 7200.10 ST3250310AS	250G
Seagate Barracuda 7200.11 ST3160813AS	160G
Seagate Barracuda 7200.10 ST380815AS	80G
Maxtor Diamondmax 21 STM3160215AS	160G
HITACHI Deskstar HDS721616PLA380	160G
HITACHI Deskstar	80G
WD WD1600JS	160G
Samsung HD161HJ	160G

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Appendix D

4-CH Specifications

Compression format	H.264 Main Profile
Video output	Composite:1.0V p-p/75Ω BNC×2,VGAX1
Video input	Composite:1.0V p-p/75Ω BNC×4
VGA Resolution	1280*1024 /1024*768/ 800*600
Record Resolution	352*288/704*576 (PAL), 352*240/704*480(NTSC)
Display Frame Rate	100FPS (PAL), 120FPS (NTSC)
Record Frame Rate	100/25FPS (PAL), 12030FPS (NTSC)
Audio input	RCA X4
Audio output	RCA X1
Alarm input	NO or NC 4CH
Alarm output:	1CH
Record Mode	Manual / Sensor /Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	YES
Communication interface	RS485, USB2.0 x 2(one for backup, another for USB mouse)
Disk info	SATA x 1+DVD-RW x 1 or SATA x 2
Remote controller	YES
Power supply	12V4A
Temperature	0°C-50°C
Humidity	10%-90%
Average Operating Power (Excluding HDD)	≤30W

Appendix E	8-CH Specifications
Compression format	H.264 Main Profile
Video output	Composite : 1.0V p-p/75Ω BNC×2 , VGAX1
Video input	Composite : 1.0V p-p/75Ω BNC×8
VGA Resolution	1280*1024 /1024*768/ 800*600
Record Resolution	352*288/704*576 (PAL), 352*240/704*480(NTSC)
Display Frame Rate	200FPS (PAL), 240FPS (NTSC)
Record Frame Rate	200/50FPS (PAL), 240/60FPS (NTSC)
Audio input	RCA X4
Audio output	RCA X1
Alarm input	NO or NC 8CH
Alarm output:	1CH
Record Mode	Manual / Sensor /Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	YES
Communication interface	RS485, USB2.0 x 2(one for backup, another for USB mouse)
Disk info	SATA x 1+DVD-RW x 1 or SATA x 2
Remote controller	YES
Power supply	12V4A
Temperature	0°C-50°C
Humidity	10%-90%
Average Operating Power (Excluding HDD) ≤30W

Appendix F	16-CH Specifications
Compression format	H.264 Main Profile
Video output	Composite : 1.0V p-p/75Ω BNC×2, VGAX1
Video Input	Composite : 1.0V p-p/75Ω BNC×16
VGA Resolution	1280*1024 /1024*768/ 800*600
Record Resolution	352*288/704*576 (PAL), 352*240/704*480(NTSC)
Display Frame Rate	400FPS (PAL), 480FPS (NTSC)
Record Frame Rate	400/100FPS (PAL), 480/120FPS (NTSC)
Audio Input	RCA X4
Audio output	RCA X1
Alarm Input	NO or NC 16CH
Alarm output:	1CH
Record Mode	Manual / Sensor /Timer / Motion detection
Simplex/Duplex/Triplex	Pentaplex
Network Interface	RJ45 (LAN, INTERNET)
PTZ control	YES
Communication interface	RS485, USB2.0 x 2(one for backup, another for USB mouse)
Disk info	SATA x 1+DVD-RW x 1 or SATA x 2
Remote controller	YES
Power Supply	12V4A
Temperature	0℃-50℃
Humidity	10%-90%
Average Operating Power (Excluding HDD)	≤30W