15" TFT-LCD MONITOR WITH DVR

USER'S MANUAL



Manual for H.264 Series *CIF 4CH DVR*

Caution

1. Installation Environment

- 1.1 Keep away from heat sources and high-temperature places
- 1.2 Avoid direct sunlight
- 1.3 Keep away from humid places
- 1.4 Be horizontally placed
- 1.5 Avoid violent vibration
- 1.6 Be installed in ventilated environment and do not block the fan

2. Installation Precaution

- 2.1 Confirm the right position of the toggle switch near the power socket according to the input voltage
- 2.2 At the first installation, make sure whether the HDD is installed and right jumped
- 2.3 You must cut off power before changing HDD
- 2.4 High speed HDD 7200 rpm or plus is strongly recommended

3. Accessories

Unwrap the external packaging and check the accessories: *Refer to the particular packinglist*

Items	Quantity	Items	Quantity
Power Cord	1pc	Installation CD	1pc
Switching Power Adapter	1pc Acceptance Certificate		1pc
Installation Fixings	1package	Remote Control	1pc
User Manual	1pc	USB Mouse	1pc

Contents

Chapter 1 Features and Specifications	1
1.1 Specifications	2
1.2 Main Features	3
Chapter 2 Installation	4
2.1 Installation	5
2.2 Front Panel	5
2.3 Table of key functions	6
2.4 Back Panel	7
2.5 Mouse Control	8
2.6 Remote Controller	10
2.7 Connection of alarm input and output devices	10
Chapter 3 System operation	12
3.1. Power on/off	13
3.2. Recording	15
3.3 Playback operation	17
3.4 Record file back up	19
3.5. PTZ and image color control	20
Chapter 4 Advanced operations	22
4.1. Menu operation structure	23
4.2. Menu maneuver	24
4.3 Menu operation	26
Chapter 5 Network Operation	35
5.1. Network connection	
5.2. Log in and log out	36
5.3. Right button menu and its operation	37
5.4 Search	39
5.5 Config	42
5.6. Assistant	44
Chapter 6 Frequently Asked Questions	49

TFT-LCD MonitorWith DVR

1

Chapter **1**

Features and Specifications

- 1.1 Specifications
- 1.2 Main Features

1.1 Specifications

Parameter	Indicator
Operation System	Embedded PSOS operation system
Interface	Friendly graphical user interface, Front panel, USB mouse, remote control and
	network simulator
Video Input	4CH composite video input:(NTSC/PAL) BNC (RCAoptional)(1.0VP- P , 75 Ω)
Audio Input	4CH video Input BNC (RCA optional) (2.828VP- P , 30K Ω)
Audio Output	1CH audio output BNC (RCA optional) (3.25VP- P , 100Ω)
Video Display	Full screen mode or Quad split mode
Display	PAL ₆₂₅ line, 50f/s _{NTSC} 525line, 60f/s
System Resources	Multi-task operation: Multi-channel recording, playback and network operation
	simultaneously
Resolution	Real-time monitor: D1 704×576/704×480
PAL/NTSC	Record playback: CIF 352×288/ 352×240
Motion Detection	192(16x12) area configurable; multi-level detection sensitivities
Video Compression	H.264
Audio Compression	РСМ
Recording Speed	PAL 1f/s to 25f/s per channel and NTSC 1f/s to 30f/s per channel
Image Quality	6 level image quality
Hard Disk	1 built-in IDE port
Hard Disk Consumption	
Alarm Input	4 channel grounding alarm input
Alarm Output	2 channel relay output
Alarm Relay	30VDC 2A , 125VAC 1A (relay output)
USB Port	2 USB2.0 high speed ports
Network Interface	RJ45 10M/100M adaptive Ethernet port
RS485	Pan-tilt control interface, multiple protocols supported
Power Supply	100-240VAC±5% 0Hz-60Hz±2%
Power Consumption	55W(MAX)
Working Temperature	0°C ~40°C
Working Humidity	10℃ ~90℃
Working Atmosphere	86kpa — 106kpa
Size	400mmX400mmX70mm
Weight(Include HDD)	5KG

1.2 Main Features

Note Features may differ due to different models and hardware/software versions.

Real-time Monitor Compression	 · 1/4 multiple windows monitoring · Display of real-time bit rate and hard disk consumption · Local view of system log
Mode	· Video Compression: H.264
Storage	 1 built-in IDE port and supports up to1 capacity HDD Overwrite mode and stop mode selectable when hard disk is full
Backup	 [.]USB port backup, including USB flash memory, USB removable Hard disk and USB CD-RW [.]Download and backup through network
Recording and Playback	 Multi-task operation: real-time recording, single channel playback, remote monitoring, records search and download, etc Multiple recording mode: manual recording, schedule recording, alarm recording, motion detection Record playback through network Fast classified record research function Multiple playback mode: fast-forward, slow-forward, single frame and backward Display of accurate recording time
Network Operation	Remote real-time monitoring via network Record search and playback DVR parameter configuration and software update Embedded TCP/IP protocol enables Web browser control Two-level user management: power configurable for different users and groups
Alarm Relay	 4 channel ground alarm input and motion detection alarm supported; panalarms include smoke detector, thalposis detector, IR detector etc. 2 channel relay output, enables alarm relay and onsite lighting control Protective circuit for both alarm input and alarm output
Communication Interface	 Special interface for alarm input and pan-tilt control One RJ-45 port for network control Two USB2.0 ports to support equipment connection

TFT-LCD MonitorWith DVR

Chapter 2

Installation

- 2.1 Installation
- 2.2 Front Panel
- 2.3 Table of key functions
- 2.4 Back Panel
- 2.5 Mouse Control
- 2.6 Remote Controller
- 2.7 Connection of alarm input

and output devices

2.1 Installation

At the first installation, make sure whether the HDD is installed and is set as master disk. The user can use 10G-infinite HDD, but for better stability, 120G-250G HDD is recommended. Installation Steps:



1.Remove the outer case of the DVR



3. Dismantle the upper HDD bracket



5.Place the HDD bracket back on



2.Install the HDD.



4.Connect the HDD with IDE port through data communication cable



6.Place the outer case back on

2.2 Front Panel



2.3 Table of key functions

No.	Key	Sign	Function	
1.	ENTER	ENTER	Operation confirmation	
			Enter to sub-menu under main menu or up menu	
			Enter login menu when boot-strap or logout	
			Enter main menu under monitoring mode	
			Playback the selected file under search and playback	
			menu	
			Press Enter to assist direction key to set the motion	
			detection area	
2.	Exit	ESC	Cancel menu and control	
			Switch to quad split screen mode from signal screen	
			monitoring	
			Switch to real-time monitoring from playback mode	
3./4.	Up/Down	▲ ▼	Lengthways moving: change set-up information, Pan-tilt	
			control, delete number under the input textbox and	
			playback control	
5./6.	Left/Right	< ▶	Transverse moving: change set-up information, Pan-tilt	
			control, delete number under the input textbox and	
			playback control	
7	Power	POWER	Press this button for 2 seconds, the screen display will be closed	
			and enter into screen saver; Press this button for more than 3	
			seconds, the monitor will be on stand-by status	

2.4 Back Panel

		(m)	0			0		0	0	
		and marked								
Audio in	USB	Net	Vin1	Vin2	Vin3	Vin4	Aout	Vout	DC12V	Alarm in

No.	Description	Function
1	DC power outlet	DC 12V/4A
2	Alarm input, Alarm	4CH alarm signal input 2CH alarm output, RS485 port, see details as below
	output, Rs485	content
3	[®] BNC Audio Input	1st CH video signal input
4	BNC Audio Input	3rd CH video signal input
5	BNC Audio Output	Audio signal output
6	RCA Audio Input	1 st CH audio signal input
7	RCA Audio Input	3 rd CH audio signal input
8	Network Port	RJ4510M/100M adaptive Ethernet port
9	USB Port	Connect with external USB2.0 devices (flash memory, USB removable
		Hard disk, USB CD-RW> and mouse .
10	Power switch	DC power switch
11	BNC Video Input	2nd CH video signal input
12	BNC Video Input	4th CH video signal input
13	RCA Audio Input	2nd CH audio signal input
14	RCA Audio Input	4th CH audio signal input

TFT-LCD MonitorWith DVR

1. Alarm Input 1
2. Alarm Input 2
3.Alarm Input 3
4.Alarm Input 4
5.Ground
6.Ground
7. 8.Controllable +12V output (optional
9. Alarm Output 1-1
10.Alarm Output 1-2
11.N/A
12. Alarm Output 2-1
13. Alarm Output 2-2
14. N/A
15.485A
16.485B



Channel Information:

1	ø	Recording	3	Ø	Video loss
2	٢	Motion detection			

)

2.5 Mouse Control

Note Take right hand operation as an example

Except the front panel and remote controller, USB mouse is supported for DVR operation. Connect USB mouse to the USB port on DVR and start mouse operation.

	'User and Password' dialog pops up if the user has not logged in; Enter main menu under real-time monitoring
Click Left-key of the Mouse	Click menu icon to enter
	Execute operation
	Change status of check-box and motion detection area

Click Left-key of the Mouse	Number input, English input and Chinese input(optional) supported; Click the relative icon to finish input: click X to reset and \checkmark 7 8 9 4 5 6 						
	Pop up drop-down frame						
Double-click	Execute special operation, like double-click the specific record in the record						
left-key of	list to start playback						
the Mouse	Switch between full screen and multi-screen;						
Click right- key of the Mouse Shortcut menu popup under real-time monitoring: Multi-screen (related to the number of channels Supported: single-screen/four- screen for 4CH DVR), pan-tilt control (if protocol correctly image color, record search, manual record, main menu and etc. Pan-tilt control and image color set up under corresponding channel screen.							
	Cancel the setup and exit.						
	Increase and decrease numerical value						
Wheel	Switch between options in combo box						
	Page-up and page-down						
Cursor Moving	Cursor moving						
Cursor	Motion detection area selection						
Dragging	Area covering selection						





2.7 Connection Of Alarm Input and Output Devices

Before connection, please pay attention to the following points:

1. Alarm Input

- a. Firstly confirm if the alarm input is grounding alarm input or voltage alarm input.
- b. Alarm input: grounding signal is needed for voltage alarm input.
- c. The relays are needed when alarm devices are connected with two HDD recordings, or one HDD recording and other devices together.

2. Alarm Output

The alarm output port should not be connected to high power load (up to 1A) directly to avoid heavy current which will destroy the relay, but you can use the contactor to realize the connection between the alarm output port and the load.

3. How to connect PTZ decoder

a. Ensure the decoder has the same grounding with DVR combo, otherwise possible common mode voltage may fail to control the PTZ. Shielded twisted wire is recommended and the shielded layer is used to connect to the grounding.

- b. Avoid the entry of high voltage. Ensure proper wiring and some thunder protection measures.
- c. For too long signal wires, 120 Ω should be parallel connected between A, B lines on the far end to reduce reflection and guarantee the signal guality.
- d. "485 A, B" of DVR combo cannot parallel connect with "485 port" of other device.
- e. The voltage between A, B lines of the decoder should be less than 5V

4. Incorrect grounding connection of alarm device will destroy the chip.

The input type of Alarm device is not restricted. (Both Normal Open and Normal Close type

2.7.1 Instruction about alarm input end :

- •4CH voltage alarm input (Both Normal open and Normal close type).
- Please parallel connect the Ground of the DVR with the ground of the alarm detector (The power of the alarm detector should be provided by outside power) .
- Please parallel connect the Ground of the alarm detector with the ground of the HDD recording The ground between alarm device and HDD recording should be connected when the power of alarm device is provided by outside power.

2.7.2 Instruction about alarm output end :

- 2 ways relay alarm output (normal open contacts). Should provide the power supply to the alarm detector.
- To avoid over loading, please read carefully about the related parameters of the relay. (See below table)

Model: JRC-27F		
Material of the contacts	Sliver	
Rating(resistance load)	Rated switch capacity	
	Maximum switch power	125VA 160W
	Maximum switch voltage	250VAC, 220VDC
	Maximum switch electric currency	1A
Insulation	Between touches with same polarity	1000VAC 1m
*	Between touches with different polarity	1000VAC1m
*	Between touch and loop	1000VAC 1m
Surge voltage	Between touches with same polarity	1500VAC (10 ×160us)
Length of open time	3ms max	
Length of close time	3ms max	
Longevity	Mechanical	50 ×106 MIN (3Hz)
	Electric	200 ×103 MIN (0.5Hz)
Temperature	-40~+70 °C	

2.7.3 Relay's parameter of the alarm output end

TFT-LCD MonitorWith DVR



System operation

Note Please make sure HDD and wires are well connected before power on (See installation chapter for more connection details)

- 3.1. Power on/off
- 3.2. Recording
- 3.3 Playback operation
- 3.4 Record file back up
- 3.5. PTZ and image color control

3.1 Power on/off

3.1.1 Power on

Plug in power cable; press the power button on the back of your DVR; then power indicator light is on and DVR start up. Default video output mode is multi-window. Schedule record will

start on at the time during schedule period. Press this button if your DVR poweautomatically

for 2 seconds, the screen display will turn off, at this time press any button or move the mouse, the screen display will lighten; press this button for more than 3 seconds, the monitor will be on stand by status, press it again, the monitor restart.

3.1.2 Enter system menu

Press Enter(left mouse key) to pop-up login box, enter user name and password.

Operation: User Name;Switch arrow keys ▲ ▼ to choose user name, or dragging by mouse. User Password.Input digital and English mode by mouse. Steps : Mouse select code textbox and turn it into blue. Text input button appears on the right hand of the textbox. Press the button and switch into digital and English modes. Both capital form and small letter are supported, then appears the digital panel and small letter English key board. Input figure or small letter English, use mouse select. Switch into capital form English, mouse select ">" key on the left corn of English key board. Switch back to small letter English by mouse selecting "<key on the left corn of capital form English key board.



3-1

Two levels of Users: Normal Users and Administrator

The default admin password is admin. User with admin power will not be restricted by system. Normal users are allowed to use few functions, when they use some functions like setting/ Advanced, the system will clue on to input macro code.

Main Menu After User Login:

TFT-LCD MonitorWith DVR



3-2

Note: Please change default password in time to ensure security. And create other user names for normal users. See Chapter 4 Mouse, Panel, and Remote Control for more details.

3.1.3 User Logout

Suggest to logout after finishing operation to ensure security; if you need to login again, please re-enter your name and password.

3.1.4 Power off

Note: You must cut off power before changing HDD*

You must stop all recording work before switching off.

3.1.5 Power off recovery

If power is cut off in record/schedule/alarm mode, system will save records and continue previous mode to work when power supply recovers.

3.1.6 Change DVR battery

We recommend you change battery annually with the same type of battery.

Note: Please set system time and record mode again if DVR is not in record mode when you change battery.

3.2 Recording

Select your record mode. There is a record symbol when recording. See 2.4

Recording Control: Press mouse right key.
 Look up channel record mode, recording channels are marked with "

 "

Menu instruction	Steps	Instruction	display
	1. Select "Record"	Switch record on/off, recording channels are marked with " • "; closing channels are marked with " • ".	Record Mode AI 1 2 3 4 Schedule O
	2. Direction Key◀ ►	Shift recording channel.	Manual C CCCC Stop C IIII IIII
	3.Save	Press ok to save setting.	Cancel

3.2.1 Schedule Record Setup

Default setting is 24-hour record.please set in menu>setting>schedule Set record mode (Regular /MD/Alarm/), channel, week day (multiple).

(max 2 periods, range: 00: 00 - 24: 00). Press ok to save all the settings.

In the Recording mode of "MD" and "Alarm", there is 3~5 seconds pre-recording

*		SCH	EDUL	-	_	_	-0
Channel	1			Week de		Thu	
Record Type				Regular	vo	Alarm	
Period 1	00:00	-14	00				
"eriod 3	00 : 00	- 24	00				
Bingular	∎ MD			arro			
1 3	в с		12	15	10	21	- 1
Detect		Sava		Cancel			

3-3

3.2.2 Motion detection record

There is a motion detection symbol when recording. See 2.4 , Please set in **MENU> SETTING> MOTION DETECT**.

- **Channel**: Choose the channel(1,2,3,4,ALL) you want to set.
- Latch: Delay time of recording(10~300 seconds optional) after motion detection.
- Region: Set the area of motion detection, There are tatally 192(16X12) positions, Red area is under M.D status.
- Sensitivity: Choose defection sensitivity(1~6 lavel)
- Alarm Out: "■ " means that in the setting time, when motion detection happens, there is a linkage alarm output.
- Show Message: " means when motion dectection happens, the screan will appear related hint.

3.2.3 Alarm relay and setup

See MENU>ADVANCED>ALARM

And see device connection chapters for more details. Connect correctly alarm output to DVR, this equipment supports low power alarm.

- Alarm: Choose the setting alarm channel(1,2,3,4,ALL)
- Type: According to the type of alarm system to choose "NO" or "NC".
- Latch: Delay time of recording (10~300 seconds) of alarm finished.
- Alarm out: "■ " means that in the setting time the alarm will make linkage output.
- Show message: "
 'means when alarm happens, the screen will appear related hint.

3	_	DETEX	ат —	_	_
Channe		× 1	ype No	ton Desa	
Hecord Diverse	a 🔟 (21,2)				
_eth		392			
Enable Tour					
Two or	 Zoloo 	•)	Semilitie		
Atam Out			Shon Max	ago Ala	in Cu
Period 1	00 23	24.100			
Period 2	00 23	24.00			•
(_Dma	-	Save	Carea		

-04		ALABM		*
Alara in Type Record Chairtei Laich	T Formal (2) T 2 D (i Sec	usa sialarn () Isla Teur ()	aral kgal 👘
Alam Etr Pailed I Pailed ^a	1 2 0 13 100 13 100	94-00 24-00 34-00	hara Meanage 	Auto Qu
Atal		8nc	Quer	

3.3 Playback operation

3.3.1 Search and playback.



TFT-LCD Monitor With DVR

search	Instruction				
Enter SEARCH menu	 Press right-key of the mouse to enter record search menu. enter record search menu in main menu interface. Note: You must login to operate. 				
Playback	Search by type (All, Alarm, Motion detection, All alarm),time and channel. Then ,select file you desired and Press ENTER or double left click to start the playback Note : records types Rrecords Aalarm Mmotion detection				
Control bar	playback(display channel ,date, time, speed and progress),control speed, circle playback and full screen. Control bar is hidden in full screen, click mouse to display.				
Partial zoom- in	Use mouse to select an area and click to zoom-in in full screen mode, click right button to zoom-out.				

3.3.2 Fast/slow paly operation

Steps	Instruction	remark
Fast play: press 🍽	Press to shift fast play modes. Fast play key is the reverse shift key of Slow play key.	Speed according to your DVR version
slow play∶ press ↓ ►	Press to shift slow play modes. Slow play key can be the reverse shift key of Fast play key.	
Play/pause ►II	Shift play/pause	
Play next/previous section	press I∢ and ►I in playback mode.	

3.3.3 forward, rewind, frame by frame playback operation(jog shuttle special functiuon)

Steps	Instruction	remark
Backward ^{II} ◀	Click III to play backward, click again to normal speed playback.	Press to normal speed
frame by frame playback	press play/pause in playback mode, and slowly switch inner ring in clockwise direction. Switch in counterclockwise direction to start I frame playback.	playback.

Note:

- 1, Control bar displays speed , channel time and progress during above operations.
- 2, Some functions, such as backward frame by frame playback and playback speed , depend on DVR versions. Please contact our technical support engineers.

3.4 Record file back up

Our DVR products supports CD-RW. USB storage and network download backup. Take USB storage backup operation as example, you could refer to web server software for network backup operation.

3.4.1 Device detect

Look up backup device capcacity information.

-	2010	771 PS2 78	
1	lantes kta 1454 (j): 14 (.eatripion Jeatripion	ola cesat d- 162
Mi-regerie	н -гра	15A7	
	<u></u>		

3.4.2 Backup fileSlect device, press delete if you want to delete device

 files. Operation:steps
 select device, channel name
 start/stop time
 click add
 to

 search. The results will be shown in list with
 in front of record type. You could set

 search conditions and add again. New results will be added to the list. You can tick off (
)if you

 don't want to backup the file. Click backup to backup files. A processing bar with occupation space

 will be shown during backup. Note
 You can quit backup menu during backup.

TFT-LCD Monitor With DVR

Cancel: You could click cancel to cancel backup during the process if you use USB storage device, and the records before you click cancel will be stored in the device. For example, if you click cancel

on the 5th minute during a 10-minute long record backup, a 5-minute long record will be stored in the device. Recording files will be invalid if you cancel backup with USB CD-RW.

Press Fn to select backup files.

You could look up backup files on your PC, which are named as: Serial number_CH +channel number+time+ymdhms.DAV.



Tips for CD-RW backup:

- 1. Select CBR mode:
- 2. Disconnect network to avoid error
- 3. Please visit our website to check our approved CR-RW brands and types.

3.5 PTZ and image color control

Note Please shift to camera input video to operate

In single monitor mode, press FN to shift "PTZ control" and "image color".

PTZ Control

- · Connect PTZ with decoder, set decoder address.
- Connect decoder A, B lines with DVR.A B lines

correctly.

Settings are in MENU>ADVANCED>PAN\TILT\
ZOOM

Select channel, PTZ decoder protocol, address, bit rate, press ok to save setting and FN to set PTZ control in signle window mode.

-		enne an	DOM	_
Channel	1			
Photocol	NONE			
Address				
Lie untrate	1530			
Even Site	\$			
Sop Bra			N	
Fally	None			
Links	ut 📜 📑	Sevel 1	Cancel	

Steps	instruction	Press Fn
1.Fn	In single monitor mode, press FN to enter menu: "PTZ control"and "image color". Select"PTZ control"	Pan/Tilk/Zoom Color Setting
2. ◀▶▲▼	Set directions (up, down, left, right (mouse or panel button), top-left, top-right, bottom-left, bottom-righ(only mouse))ZOOM ^{(zoom in} (or click ►) /out(or click ►), foucs ("-" or click I +" or click ►I), IRIS ("-" or click I step (ranged from 1-8), when you click "set" and enter sub-menu, to set prearrange points; auto cruise; border pattern	PANTILTIZODM € Speed 6 ○ Zoom ⊕ ○ Focus ⊕ ○ Init: ⊕ Set Set (Fage Solid) Pit Trace
	color setting: you can set or change hue, brightness, contrast, saturation and gain. In specified period. Note: you must select one period of 24 hours.	C.P.I (RE SET - 6/3 > Parted Parte/I • <td< td=""></td<>

 $\mathop{ \, \mathrm{ tr}}\nolimits$ You must save before quitting to previous level menu.

TFT-LCD Monitor With DVR

Chapter 4

Advanced Operations

- 4.1. Menu operation structure
- 4.2 Menumaneuver
- 4.3 Menu operation

22

4.1 Menu operation structure



4.2 Menu maneuver

Main	Menu lev	el 1 Remarks
SEARCH		Records search and playback. You can search the records according to Type (All, Alarm, Motion detection, All alarm), Channel and Time. The matched records will display on the list. Choose a record and start playback.R- record A-alarm M-motion detection
	HDD info	Display the IDE ports' state, the total and free space for all HDDs and every HDD, the record starting and ending time The HDD being used will show as '*' following the HDD serial number. Press Fn to check the recording time of HDDs
Info	Bit rate statistics	Display the current BPS and the estimate for HDD space occupied per hour, and the Waveform displays the visualized BPS
	Log info	Display the important system events' log
		Display the information about operation system version, issue date and so on
		Check online user information
	General	Set system time, recording parameter, the machine No., video format and so on. Set LCD close time and enable.
	Encode	Set image quality, frame rate, coding style and so on
Setting	Schedule	Set schedule for General, Motion Detection, Alarm recording. Be able to set 6 different periods everyday
	Network	Set network IP address and video data transfer protocol
	Display	Set parameters of menu output and monitor tour
	Detect	Detect back-up devices List found devices and display the type and capability

Main menu	Menu leve	I 1 Remarks
Backup		Detect back-up devices, list found devices and display the type and capability. Back up records that were selected through partition, channel, time and type on the USB storage devices.
	HDD management	HDD management, clear HDD data.Restatr to activate.
Advanced	Alarm	Set alarm output and the linked recording channels.
	PTZ control	Set protocol and baudrate
	Record control	Manually start or end recording
	User account	Add, modify and delete user group and user account.
	Default	Restore all default setting except menu color, language, time format and video format
Shutdown		Log out, shutdown system or restart system

TFT-LCD MonitorWith DVR



CAM 3 CAM 4

4.3.1 Record search

Search (by record type, channel or time) and palyback record files. See 3.3 for more details.

4.3.2 System info

Submenus: HDD info,

bit rate statistics

log,info

version info and online user.

26

HDD info

Look up IDE ports status. HDD capacity(total,useable) record time(start,stop) and status. Note: IDE port information:0 normal X error - no HDD installed.If you want to install new HDD, please cut off power and take out broken HDD.



Working HDD will be marked with * and a " ? " will be seen if there is collision. System will turn to HDD info interface when collision is detected after starting up.You could check up and if collision really occurs, please enter setting → general to change system time or format HDD and restart DVR. Note press Fn or click left mouse button to shiftrecord time / HDD type and capacity.

Bit rate statistics

Bit rateKb/s)and HDD space occupation $\mbox{(MB/h)}$. Waveform of Space occupation.

<u>ن</u> ا	_	_	RPG .	Ĭ
Channel	KEG	N311	Warne	
1	8511	1962	E	
3	3511	3991	Ľ.	
3	8511	3562	Ľ.	
1	92.1	3962	E.	

TFT-LCD Monitor With DVR

Log info

Look up user login information.



Version info

Look up hardware/software version and publish date.

	12/3.61	
County.	n .	J
A WID 1		
A with Lar		
Shawn	Version 135	
baid July	8406 // SI	
Byrs were b	require active prophers and the other have an	
started by	strongs - B. S. Filling Representing - Long-	
<u> </u>		

Online user:

Look up online user information.

6	CIUSIO L SONS
LoerName	r I
1.0	10.0131
l'e	1067.22
1.1.4	105517
Hile	100131
L L'A	line 2.21
110	1853.5
- Tille	10.6 (21
line	H167.21
Tue .	10.522
Liïe	10.6 2 51
1	
TAUNA I	<u>- 87.9 Ma</u>

28

4.3.3 Setting

Submenus: GENERAL, ENDOCDE, SCHEDULE, NETWORK, DETECT, DISPLAY. Note For enpowered user only



GENERAL

Set system time , date format (yymmdd/mmddyy/ddmmyy);data seperator(./-); time format (12/24hours); pack duration (default 60minutes); dvr umber (for 1 remote controls multi-DVR condition); auto logout (0-60, login user will automat ically be logged out when out of setting time. Press ok to save settings. LCD close (1~60min), LCD will automatically be loged out when out of setting time.

Note: Avoid any unnecessary changes on system time; otherwise records might be malfunctioned.

	93	54EMA_ *
System free	2007 - 07 - 28	16 - 38 - 19
Cate Forma	FYIN VIM DO	
Late Separator	. I•	
Line Format	84 FOCH -	
Langunge	-raars+ ·	
HD0 Fail	Cremente -	
Pack Duration	50	men.
EVRNe.	5	
Video Standard	°4	
≥una liegoun	.0	min
LCD Close	.0	101
Twiz-1	Sam -	l and

ENDOCDE

Select channel, coding mode(H.264), resolution (CIF); bit rate control(CVR/VBR); frame rate1f/s-25f/s(6 levels); Image quality (6 levels); mark audio encode to activate audio and video synchronization.

TFT-LCD MonitorWith DVR

8	_	ENCODE ·
Channel		
Compression	H 354	
Resolution	21-	
Bit Hale	02-4	
Gardey.		
Frame Page	25 F PS	
Enshie Audio		
Delas		ave Cancel

SCHEDULE

Time period setting for schedule, motion detection and alarm relay. see 3.2.1 for more details.

NETWORK

Set IP address , subnet mask , gateway , service port (default 37777), protocol HTTP port and Max connection number(0-4).

LAN Connection

Step 1, Set DVR

Set IP address, subnet mask, gateway, service port (default 37777), protocol, HTTP port and Max connection number (0-4).

Step 2, Testing

Use PC to ping DVR IP to check condition. If reply TTL is less than 255, it is well connected.

			10.00	CALD-TILLEVE		
F Accinic		168		. 122		
SuprenNeck	25	325	. 255			
Galeway	'W	182	1	1		
Service Post	\$7703		۰.	ti të Po		×.
Protocol	TOP			/ne Com	natione	
Enable COLS						
∎Erste DDLS Six Name	hostra	m2				
E Frasia COLS Sig Marie DONS Seveni 7	hostro D	100 100 5] 601	2070
■Ernste Coks Six Name DONS Seveni? ■Ernste PR-s	hosm D	5 S			 Per	9976

D	Service port	IP address	Protocol	start.
1	80	192.168.0.20	ALL -	V
2	37777	192.168.0.20	ALL -	V

Step 3, Visit DVR from LAN

Open PC input DVR IP address on IE browser address bar to visit DVR via LAN.

WAN Connection.

Step 1, Set DVR

Set IP address, subnet mask, gateway, service port (default 37777), protocol, HTTP port (for example 80) and Max connection number (0-10).

Step 2, Set Router

Input two same service port of DVR to router. And point this two service port to DVR IP address (for example DVR IP is 192.168.0.20).

Step 3, Visit DVR from WAN

If using static IP, open PC input registered Static IP address on IE browser address bar to visit DVR via WAN.

If using dynamic IP, find dynamic IP from router and input it on IE browser address bar to visit DVR via WAN. Or visit DDNS website to download DDNS software, apply DDNS account and Dynamic domain name. Use local PC to run DDNS software to point Dynamic domain name to the dynamic IP. When the PC and DDNS software are running, you can input the Dynamic domain name on IE browser address bar to visit DVR via WAN.

DISPLAY

Click transparency to set transparency (128-255) Mark ■ to display time title. Mark ■ to select tour mode, time, time interval (5-120s) and video windows (1, 4,) in Monitor tour .

157		D SPLAY	_	8
5.1 Transportency Time Display Overlay Into Manuer Trans	2.00	Channe Name Channe Display	Web	Ð
Ensble Tour Viso 1 Viso 4	_ 9990 9	l tra va		895.
_ 24104		a (a	24	

Channel name: Press modify button to rename channel.

You should open channel name menu on web or client end to upgrade channel names if you revise them on DVR.

	Che	innel Name	
CAM 1	CAM 1	CAM 2	CAM 2
CAM 3	CAM 3	CAM 4	CAM 4
Del	ault 🗌 🖂	Save	Cancel

DETECT: See 3.2.2 for more details.

TFT-LCD Monitor With DVR

4.3.4 Advanced

Menu is shown on the right, including HDD MANAGEMENT, MANUL RECORD, ACCOUNT, ALARM, PAN/TILT/ZOOM, DEFAULT.



Manul Record

See 3.2

HDD Management

HDD shows HDD number, default turn is up to down, left to right (No.1 IDE port is near power outlet).If you choose HDD No.1, type, capacity, status and record time shows its attribute. Press change setting to change HDD attribute, ok to confirm and save. You must restart system to activate setting.

ALARM: see 3.2.3 for more details.

PAN TILT/ZOOM: see system operation for more details.

DEFAULT

Set to default settings (you could choose options you want to default .

Note: menus color, language, time format, video format, IP address and user account will not be affected.





TFT-LCD Monitor With DVR

Account

user account management

Note: Max 8 digits for user/group name, the first/last digit mustn't use blank.

Default 2-level groups are: USER\ADMIN.There are no limits for user/group numbers. users in the same group shares the same power limit.

1		π	- 8	
1	Low	Group	Saya	
1	653,938	00001	Log n Local	
	655300	US #1	Normal	
	achter -	ectrin 1	Non al	
	detaut:		Derivati User	
	Add Loer	Wodry Daw	Madity Persons	72

Modify password

Select user name, input new password (1-8 digits) and confirm, click save to save setup. The first/last digit mustn't use blank. User with user account control power can change other user's password.

Security measure: System will lock if you input wrong password 5 times in half an hour.

122	Wed 'y Pa	0/.96	×
Name Nav Pastocre Confirm			
	(Sev)	Cancel]	

Add User

Add user and select group, including Admin, user Admin occupies all rights and user occupies part rights



Modify User Modify User attribute. Modify user modify user name, group, authority, and memo Enter menu, input user name and password, select group. Your user power is restricted to your group power. We sugget you set higher power for admin group users.

	Modity User	
Cont Name Name Morito	SCORES * SCORES Multiple admin(SEB) 's (COOUT)	
Group	Lutnin ⊢	
	Swe Delet	

4.3.6 Shut down

Logout menu user: quit menu enter password to login again shut down: quit system, shut down power supply

Restart: Quit system, restart DVR.

Restart application: exit application, and then restart it

Press power off button for 3 seconds to turn off DVR power.

You must input password to shut down DVR if your user ID doesn't have the power.



34

Chapter 5

Network opration

- 5.1. Network connection
- 5.2. Log in and out
- 5.3. Right button menu and its operation
- 5.4 Search
- 5.5 Config
- 5.6. Assistant

5.1 Network Connection

- Please make sure your DVR and network are well connected, You could turn to device connection chapters for reference.
- Set IP address, subnet mask and gateway for your host and DVR, If there is no router in the network, please assign IP addresses within the same network segment. Otherwise set the relevant gateway and subnet mask. Please turn to System setup>network setup for more details.
- Use ping ***.***.*** DVR IP to check condition if reply TTL is less than 255.
- Open IE browser input DVR IP on address bar.
- WEB server will download and upgrade automatically. Delete the old version WEB before upgrading new version.
- Operation: [Start]-> [Run], Input 'regsvr32 -u WebRec.ocx' and delete the old version.

5.2 Log in and out

36

Take DVR IP address 192.168.0.76 as example. Just input http:// 192.168.0.76 on address bar, The system will pop up a warning dialogue box to ask you whether you accept DVR web control software

webrec.cab on the first time you visit your DVR via web. Please select Yes and the system will install this software automatically.

Upgrade to new version: [Start]-> [Run], Input 'regsvr32 -u WebRec.ocx' and delete the old version.



5-1

If the following dialog box pops-up(picture 5-2) please check your password and input the correct password.



Log out: Click Log out , and choose 'Yes' on the pop-up box.

5.3 Right Button Menu and Its Operation

Logout, video, search, config and assistant buttons are activated after login. Click right button to see the following Interface :



Take 4 channels DVR BL1700T4 as example:

Monitor menu includes the following submenus 'Real Time Monitor , Playback Control Bar, Set Volume, Net Data Flux, Full Screen, Resize Video, Video Windows'

Video: The same functions are as the right key menu.

Real Time monitor: You can select the channel you want to see among the displaying channels. If you want to change channel name, please set in **Assistant->Channel Name**. Click the right button in monitor mode and you will find 2 more options in the menu: **Prearrange Set** and **Pan Tilt Control.**

Note: You must have the control power to set these 2 menu options. And you can't set these 2 menu options if your PTZ doesn't have these protocols.

Right button menu in monitor mode:



Playback control bar: See record playback for more details.

PTZ control: Control PTZ direction, move, zoom, focal length and iris range, see picture 6-8. **Note:** 1. Please make sure that you have set PTZ control protocol.

2. If the dictate is not support, the screen shows gray.

Select PTZ control, box 5-5 pops up. This box supports move and IRIS control. 8 directions, up, down, left, right, up left, up right, bottom left, bottom right.

Prearrange set: Set prearrange points. Tick Cruise to make your camera cruise these prearrange points automatically. If it is set many points, camera cruise between this points automatically.



5-5

Fast orientation :

SIT button is the fast orientation button. It is available when the PTZ has this function. And it can only be controlled by mouse. Press it to enter the fast orientation window. Press one point on the window, the PTZ will point to this point automatically and this point goes to the center of the screen. It also supports zoom function. Use the mouse to drag. Drag down to zoom in. Drag up to zoom out. It supports 4~16 times zoom.

Volume set: Set your PC (not your DVR) volume. Tick mute to turn off sound.

Adjust Volume	×
Volume —	Mute

Net data flux: Network transmission data flux statistics. Shows 0 when no network transmission



data flux.

5-7

Full screen: In 1 video mode, double click mouse left button on preview window or click mouse right button to select full screen.

In multi video mode, double click mouse left button of one of the channels to full screen. Or click mouse right button to select this channel to full screen.

In full screen mode, double click mouse left button or click mouse right button to select resize video to return to preview mode.

Resize Video: User can select different proportion. Video window size changes according to the proportion. In 1 video mode, when selected real time monitor, video window changes according to proportion. In multi video mode, even when not selected real time monitor, video window changes according to proportion.

Video Windows: Can select 1 video window and 4 video windows.

5.4 Search

Click search to pop up record search box:

ACOI 1 S	earch		
	-Parameter		
Farwi	Permit 2007- 1-16	x 0.00:00	Sneeh Gaueri
FLMT.	To: 2001- 1-08	× 18 % %	Jarlasi Jugdas
Petice.	thereol 1	-	
Ded.			
wile -			
oult	Start Cine	Stop Sime	Give ET) Type 4
oole	Start Cime 2007-0-11 12.01 09	51.00 Time 2001-02-11 02.01.42	Size III) Ispe 🔺 ICI Retter di
colt	Start Time 2009-3-11 12.81 09 2009-1-15 23:80 0	51	Sire III) Ispe + III Return fo II:0662 Fermi re
eels-	Start Time 2007-0-11 12.61 39 2007-0-15 23:80 0 2007-1-16 21:0-1	5100 5100 2004-50411 52.81.42 2004-516 (1001 2007-516 (1001	Give III) Type + 101 Retroy in 104667 Reveal re 21000 Reveal re
eedla 6. 15 1 16 2 16 2 16 2 16 4	Start Time 2009-0-11 02.61 09 2009-0-15 20:80 0 2007-1-16 F.0-1 2007-1-16 F.0-1	Sing Sime 2004-2010 52.61.42 2007-2-16 0.001 2007-2-16 0.001 2007-2-16 0.001	Sire (17) Tage 4 101 Retroy du 109667 Remail no 20000 Remail no 100701 Remail no
ecolo	Start Time 2007-0-13 12.87 39 2007-0-15 22:80 0 2007-1-16 1:001 2007-1-16 1:000	Sing Dim 2007-02-01 02.81.52 2007-016 0.001 2007-016 0.001 2007-016 0.000 2007-016 0.000	Size III) Jaye 4 ICJ Retries do 100667 Fermi an 20060 Fermi an 100761 Fermi a 200917 Fermi as
coult	Start Time 2007-1-11 12.81 39 2007-1-15 23:30 0 2007-1-16 2:301 2007-1-16 2:001 2007-1-16 1:001 2007-1-16 1:001	5 Jup Time 2007-01-01 00:61-62 2007-01-06 0 00: 2007-01-06 0 00: 2007-01-06 0 00:0 2007-01-06 0 00:0 2007-01-06 0 00:1	Size III) Japa 10 Febrer, fr 19662 Bernd av 19062 Fornd av 19062 Fornd av 20062 Fornd av 20062 Fornd av
(sul) :	Start Cime 2007-015 22.57 39 2007-015 23:80 0 2007-016 20:80 0 2007-016 20:00 2007-016 20:00 2007-016 20:00 2007-016 20:01	Sing Time 2007-02-11 02.07.42 2007-02-10 02.07.42 2007-016 0.001 2007-016 0.001 2007-016 0.001 2007-016 0.001 2007-016 0.001	Give [11] Japa 10] Petro, fo 10:0662 Fermil re 10:0767 Fermil re 5/09157 Fermil re 5/09157 Fermil re 5/09157 Fermil re 10:0905 Fermil re
(vi) k. k. k. k. k. k. k. k. k. k. k. k. k.	\$1.001 Time 2007-0-11 12.001 99 2007-0-15 22.00 0 2007-0-16 21.001 2007-0-16 21.001 2007-0-16 21.001 2007-0-16 21.001 2007-0-16 21.001 2007-0-16 21.001	Sing Time 2007-08-13 00.81 62 2007-16 0.00 2007-16 0.00 2007-16 0.00 2007-16 0.00 2007-16 0.00 2007-16 0.00 2007-16 0.00	Sire III) Japa III Febrer, fr 19062 Sernal re 19062 Sernal re 29062 Sernal re 29062 Sernal re 29062 Sernal re 19365 Sernal re 19365 Sernal re

Input "recording date/time, channel number and search type (**Record ,Alarm or Motion** ", and the results will be shown in the dialogue box(16 results per page). Click page up or page down button to

turn over. Double click record file to palyback and backup simultaneously. System will automatically save record files in your Download file. and you could select file to save destination as you like. Note Use your mouse to choose record time when setup parameters.



You could use tool bar to **save record, stop saving file, image capture, full screen shift** ,and look up channel name. Time and network data flux information.

Download: Select record files and click download

Save As				?×
Save in: 🛅 D	lownLoad		▼ ← €) 🗗 🗂 -
File name:				Save
Save as type:	Record File (*. np.c	*.np4;*. dav	;*.mpe 🔻	Cancel
	*.dav	5-10		

Input selected file name and click save to start downloading, there will be a download progress bar hown on screen:

TFT-LCD MonitorWith DVR



5-11

Default file name format file name: user name +date+time+channel No., extension name: "dav or MP4"(Take Gate-0120060907144228 [4]. Dav as example: Gate-01means channel 01 in the gate 20060907 means 7th Sept. 2006, 144228means 14:42:28).Support multi-task download.

TFT-LCD MonitorWith DVR

5.5 Config

Click to set general, record schedule, image, alarm, motion detecting, network and video parameter and such as submenu options.

Note: The gray-colored menus could only be set on your DVR

General : Including record length set. Select channel, PTZ decoder protocol and address in Control to control PTZ. (5-12)

Q A B	Netica References	El Video Zurmation 🔡	@ C	🚳 litting fatesting	Bill Middle Taxon
9 Courst	💥 Scheduled Scar	States	St Gament	🚊 Schattled Ste	4 St 116
ser PED to Poll 2 diferen - 1993 -	R318 [rest.	F	Tendo () Tendo	two threat t	ni F⊅n Alum F
Cannà Canais I	Part Houties 4	s prosts			
et Settigentius In	net Lettigenesia Xar	e Bare	Inpert Coaff protion	Sepert Configuration	Sers (and

5-12

5-13

Record Schedule: Including 3 modes: record, motion detection and alarm. You can set different time periods in different date and channels. (5-13)

Image: Set channel coding mode, image quality and network transmission protocol, click save when finishing 1 channel setup. And do save again when you finish all the setup. Frame rate (PAL): 1f/s, 2f/s, 3f/s, 6f/s,12f/s,25f/s. Coding mode LIMIT(CBR) AUTO(VBR). Level 6 enjoys the best image quality, at the cost of high bit rate. Video lost alarm: frame rate 1-25f/s. You can look up network transmission, monitor and playback protocols here.(5-14)



5-14 5-15

Alarm: Select alarm port and channels (multiple choices). Click save when finishing 1 port setup, and save again when you finish all the setup.(5-15)

Motion detection: Please make sure your motion detection time period and recording period are different, because recording mode has priority.

You could select purple area as motion detection area. Set channel motion detection time lag and sensitivity.

Click **full screen** or right mouse button to make motion detection area full screen. In multi-video mode, it means recording will be shown on the window you have set motion detection .Please turn off schedule recording if you want to make certain channel totally in motion detection recording mode. The purple area is the selectable motion detection area. User can move the cursor to choose the area and can also set the sensitivity of the area due to the need. Click **Full screen** or press right key on the area to display the motion detection area at full screen. After setting up the area, the user can **Save channel** or **Clear** the area.

TFT-LCD MonitorWith DVR

Alarm output: Set alarm output when motion detection works.

Recording channels: Tick to record when motion detection works.

Save: Save your setups on the channel.

Clear: Clear up your choice.

Please click Save again when all setups are finished.



5-16 5-17

Video Parameter: Set video parameters: Hue, Contrast, Brightness, Saturation, channel and enable audio. Click Reset to default.(5-17)

5.6 Assistant

The following functions are included in this menu: User Manage, Record Control, Log Information Datetime, System Information, Alarm Information, Channel Name, Upgrade Bios, Reboot and About





User manage: Set DVR user group and user information.

Group operation

Initial interface is as follows:





Record control :Manual record control: Presses confirm to save setup.

ecord Contr	ol			2
Record				
CAMD1	C Stop	C Stert	@ Juto	OK
CM02	C Stop	C Start	🗭 kuto	Cancel
CAND3	C Stip	C Stort	🕞 kuto	
CAND4	C Step	C Start	le kuto	

5-20

Log information: Record all system operations.

- System Lop	×
07-05-21 17:27:01 (infeal() Just Lagis)	
07-05-21 17:27:01 System mast down! 07-05-21 17:26:20	
07-05-21 17:27:01 System reboott&coreal shattless	
07-05-21 17:30:27 (admin) Unar Login!	
07-05-21 18:02:19 (admin) Unar Logout!	
07-05-22 02:00:47 GinEndl O Unar Logis!	
07-05-22 02:00:47 System mint down! 07-05-22 02:00:09	
07-05-22 02:00:47 System enboottScacemal shotbes	
07-05-22 08:49:34 (admin) Unar Login!	
07-05-22 09:07:48 (admin2 User Lagrat)	
07-05-22 09:11:44 Girfard O Jage Lagin!	
07-05-22 09:11:44 System mist down! 07-05-22 09:08:56	
07-05-22 09:11:44 System reboot(Hormal ShuOova	
07-05-22 09:12:32 GaEval C Dear Lygrat!	
07-05-22 09:12:32 (888888) User Lygin!	
07-05-22 10:02:36 Gafeed C Dear Logis!	
07-05-22 10:02:37 System mixt down! 07-05-22 09:14:57	
07-05-22 10:02:37 System reboot(Hormal SauCova	
07-05-22 10:03:39 (admin) Unar Login!	
-	



Equipment date and time: Entitled user can edit the date and time if they are in the box as follaws.



5-22

System info: Check the basic system information. In this menu, you could shut down audio if you don't need it and choose extract frame(non-real time) or real time network video transmission modes according to your bandwidth; choose PAL or NTSC mode; set preview image quality; open auto cycling to shift all channels and set time intervals. Network data flux Show data flux statistics in real-time monitor mode.

stem Informat	itan	
III Islandi		1 02
ke stant :	1	
Tatal Capacit	y. 239924 M	
7the Information	in	
Start Time:	2007-01-11 01:22:00	
End Tree	200(-01-2) 08.82.10	
75249		
F Bailtins	C Enancy	
Jacobs Antis-		
Æ Uses	C Con	
Selin-		
6 Dam	C Case	
Siles Type —		
# 151	C 1533	
Vites Tearanis	nim feda	
ff Frahtier	E Felcard I From	
Proview Drags		
Juin	z Şaali iş 🛛 🗹	
Sets Training I	larithe for	
C fpra	Ann G.Cheve	
Interval	2 seams	
Teer Internal	1. <u>70</u> 340364	
Setemate Date 1	Ties:	
Into Finc:	l Inga	



Channel name: You can rename channel names displayed on screen, and the channel names will be Channel No.1 to Channel No.8 if you click default button. You can open channel name menu on web or client end to upgrade channel names if you revise them on DVR.



48

Upgrade BIOS: You can upgrade BIOS WEB version simply via WEB. Click open file button to open the program file you want to upgrade and you can get upgrade programs from our technical support department or download from our website ,and click send button. System will reboot automatically after successful upgrading. You could also upgrade via client end software.

Upgrade BIOS Open file					
Current Prog	ress	(
Send Bios	Send Neb	Send Boot	Boot	and bics	Cancel

5-25

About :Here is for you to view basic system information.

Chapter 6

Frequently Asked Questions

1.What factors should be considered if my operation system is WINDOWS 98

DIRECTX 7.0 or version above for graphic speed-up should be installed in advance, while this tool is included in WINDOWS 2000 or XP package.

2. Why no HHD is detected?

Firstly, please check whether HDD is in good condition. Check whether HDD jumper wire, IDE wire and power cable are well connected, HDD must be set as master disk when only 1 HDD is connected with 1 IDE port.

3. Why recording time is not controllable?

The recording time unit is 1 day. Besides schedule recording, there are other recording modes such as motion detection, manual and alarm. Please confirm the setups are correct and time period should be set within 1 day. Please refer to manual for more details.

4. About heat dispersion

Our DVR products use low power dissipation chips and smart HDD management. If there is no operation in 1 minute, non-working HDD will automatically be in standby mode, thus reducing heat volumes and prolong HDD life.

5. Why is there 1 channel without video signal?

Please check whether the video wire is well connected. Or put the camera's video wire into the monitor directly to see if there is any video signal. If no signal, please contact your equipment supplier; if not, there are some problems with the camera or video wire. Not Digital Video Recorder

6. Why doesn't remote control work?

If the ACT light on the front panel is on, it might be caused by low battery energy, just change for new ones, If not, please press ADD button on the remote controller toward the DVR, and there will be a remote control address menu on screen. Just input the correct address (default address is 008) ACT light is on and remote control is useable again.

7. Why couldn't I control PTZ or speed dome?

Please confirm the wire connection is in good condition. Please check the setups via path: System Setup ">PTZ control" . Please check if the address setups are matched? Please check protocol is matched. Please contact your equipment supplier.

8. Why does my DVR fail to connect the network?

If 'fail to connect to IP address' dialog box pops up, please check IP setup on your computer and DVR, and make sure network wire is well connected. Check ping via path cmd >run(input 'ping <DVR ip> t' login again if it is connected. If the 'This user has logged in' or 'User name or password error' dialog box pops up, please check whether this user has logged in or your user name/password matches.

9. After login the DVR via client end, why is not the image quality good and sometimes there is drag marks at the beginning?

It is normal if the image can recover within 5 seconds.

10. Why doesn't schedule recoding work?

Incorrect time setup. Time period must be in 1 day Or time period status has not been changed.

11. What could be kind of external equipment connected to the DVR?

Our DVR products can work together with special keyboard, various matrix units, various control decoders, alarm input and output devices, access control and so on.

Note:

**This user guide is only for reference.

**The product will upgrade any time without notice.

**All rights are reserved.

**Please contact with our technical service for downloading any upgraded program or supplemental software.

**This user guide is applicable for series of products, and the operation for each product is not specified separately. Please contact with technical service for any questions.

**This user guide is applicable for 4CH hardware version V1.02 and software version V1.00.05 and above.

**All basic features listed in this guide is suitable for the model as above. The features will be changed if any update accordingly.