



# **USER'S MANUAL**

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## SAFETY INSTRUCTION

Please carefully read the following safety instruction so as to avoid personal injuries and prevent the equipment and other connection devices from being damaged.

1. Power sources (note: please use the power supply attached or specified by the manufacturer)

Never operate the equipment by using unspecified power supply.

#### 2. Never push objects of any kind through openings of DVR

Never push objects of any kind through openings of DVR so as to avoid electric shock or other accidents.

3. Do not put the equipment in the dusty field

Do not put the equipment in the dusty field.

4. Do not place the equipment under rain or humid environment

Do not place the equipment under humid environment like basement. If the equipment is accidentally in contact with water, please unplug the power cable and immediately contact your local dealer.

5. Keep the surface of the equipment clean and dry

Use soft damp cloth to clean the outer case of DVR (do not use liquid aerosol cleaners) 6. Do not operate if any problems are found

6. Do not operate if any problems are found

If there are any strange smell or sound from DVR, unplug the power cable and contact the authorized dealer or service center.

#### 7. Do not try to remove the upper cover

Warning: Do not remove the cap of DVR so as to avoid electric shock.

#### 8. Handle with care

If DVR does not work normally because of hitting on the hard object, please contact the authorized dealer for repair or replacement.

# 9. Use standard lithium battery (Note: Use the batteries attached or specified by the manufacturer)

After cutting off the power supply, if the system clock cannot continue to work, please replace the standard 3V lithium battery on the main board.

**Warning:** Turn off DVR before replacing the batteries, or you may be suffered from serious electric shock. Please properly dispose of the used batteries.

#### 10. Put the equipment in a place with good ventilation

The DVR system includes HDD, which produces large amount of heat during operation. As a result, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) for cooling the system during operation. Install or put the equipment in the place with good ventilation.

11. The attached power adapter can only be used for 1 set of DVR. Do not connect more equipment, or DVR may be restarted repeatedly because of insufficient power 12. Prevent the equipment from water dropping or splashing. Do not place objects containing water, such as flower vase, on the equipment

# Chapter 1 Functional Descriptions and Features

Function	Brief Description
Real time monitoring	Support output by monitor, VGA and HDMI, support real-time monitoring by web application manager and mobile phone, and support electronic amplifier, multi-screen sequence and PIP display.
Recording	Support video compression standard of H.264. The video quality, resolution of each channel and video frame rate are adjustable. Support many recording modes, such as start-up recording, timing recording, manual recording, alarm recording, motion detection recording, remote recording, etc.
Record	Support high capacity HDD with SATA port. The records can be stored
storage	immediately in HDD.
Record	Support single-channel or multi-channel search and playback by DVR or
playback	network.
Record	Backup records from DVR to U flash disk, mobile HDD and disk burner; or from
backup	network to HDD.
Alarm	Support alarm management of HDD and video input and the signal input from
setting	external alarm apparatus.
Network	
operation	Support authorized accessing of remote client to ensure the system security.
Mouse	Support USB mouse operation to set system parameters conveniently and
operation	efficiently.
	Support PTZ decoder communicated through RS485. It can expand two kinds
PTZ control	of decoding protocol to realize PTZ and dome camera control. Support PTZ
	preset auto cruise function.

Table 1-1

Features:

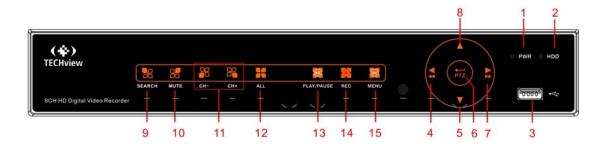
- H.264 video compression format, support 960H display resolution;
- G.711 audio compression format;
- Windows style graphic user interface and embedded real-time Linux 2.6 operation system;
- Warm menu prompt;
- Full real-time six functions (preview, recording, playback, backup, network monitoring, and mobile phone monitoring);
  - Support dual-stream network transmission;
  - Support smart phone video monitoring;
  - Support electronic amplifying and channel sequence display;
  - Video packaging time is adjustable;
  - multiple alarm modes;
  - USB2.0 port, support backup, burning, software upgrading, mouse operation, etc;
  - Support infra-red remote control;
  - Support multi-language;
  - Support automatic system maintenance;

# **Chapter 2 Overview of DVR**

## 2.1 Front Panel

**P.S**: DVR is short for Digital Video Recorder Equipment.

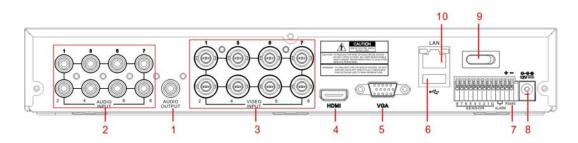
# 2.1.1 Front panel of DVR with 8 channels and 1U case (For reference only, goods in kind prevail)



SN	Identification	Functions			
1	PWR	If the "Green" indicator is on, DVR is getting power normally.			
2	HDD	If the "Red" indicator flashes, the hard drive is being read or written to.			
3	<del>در</del> ې	USB port			
4	4 / 44	Move left; Fast backward at various speed			
5	•	Move down			
6	PTZ	Enter into PTZ menu; Confirm operation; Edit			
7	▶ / ▶	Move right; Fast forward at various speed			
8	•	Move up			
9	SEARCH	Record search			
10	MUTE	Mute			
11	CH- / CH+	Single channel selection			
12	ALL	Display all channel together, multi mode			
13	►II	Playback the video or pause the video			
14	•	Start manual recording			
15	MENU/ESC	Enter into the main menu/Return			

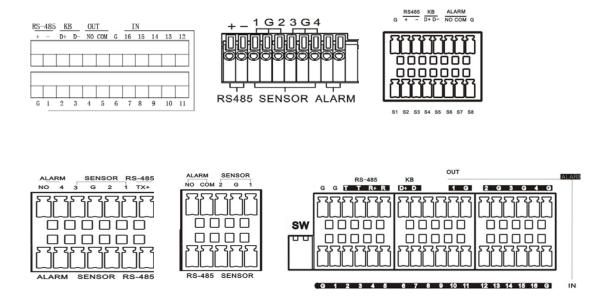
## 2.2 Rear Panel

# 2.2.1 Rear panel for DVR with 8 channel and 1U case (For reference only, goods in kind prevail)



SN	Physical Interface	Connection			
1	Audio output	Audio signal output, RCA port			
2	Video input	Connect with CH1-8 (analog) video input device, standard BNC port			
3	Audio input	Connect with CH1-8 audio input signals, RCA port			
4	HDMI port	HDMI high definition port			
5	VGA port	Connect with VGA display devices, such as PC monitor			
6	USB port	Connect with U flash disk, disk burner, and other USB storage devices			
7	RS-485/Sensor/Alarm	RS485/Sensor/Alarm port. Connect by referring to the interface definiti below			
8	Power port	Connect with the power supply DC12V 3A, attached with the machine			
9	Power switch	Turn on /off power supply			
10	LAN: Network port	Connect with LAN, Ethernet and RJ45 port.			

# The following diagrams shows the interface definition of sensor input / alarm output /RS485:



**Alarm input:** Check your purchased alarm device and connect a G (GND) foot to the port marked with "-" and connect the alarm channel to the port marked with "+".

Alarm output: Two ports marked with OUT.

PTZ port: Check your purchased PTZ and connect to the two ports (+ -) marked with RS 485.

## 2.3 Remote Controller (For reference only, goods in kind prevail)

Table 2-3 Operation of remote controller

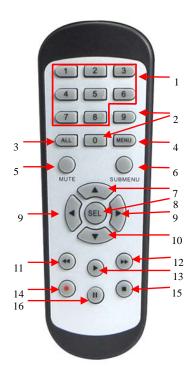


Table 2-3

Item	Kov titlo	Key function			
	Key title				
1	1-8	Channel select 1-8; Numeric key			
2	9、0	Numeric key			
3	ALL	Multiple display mode			
4	Menu	Enter into Main menu/Exit			
5	Mute	Mute On/off			
6	Submen	Go to submenu			
	u				
7		Up arrow key, volume increase			
8	SEL	Select key/Edit key			
9		Left/Right key; Decrease/increase parameter			
	◀/▶	value of control bar.			
10	▼	Down arrow key, Volume decrease			
11	••	Rewind key			
12	••	Forward key			
13	•	Enter into record search menu / Play key			
14	•	Record key			
15		Stop manual record; stop playing			
16		Pause/Sequence key			

# **Chapter 3 DVR Connection**

## 3.1 HDD Installation

Caution: Please do not take out hard drive when DVR is running! HDD Installation:

(1) Cut power firstly, and then remove screws on both sides and rear panel and open DVR upper cover.(2) Connect HDD data line and power line to the main board. Install the HDD to fix it on the bracket and then connect the HDD power line and data line.

(3) Put the upper cover back carefully

Note: If user requires higher performance HDD, it is strongly recommended to use special hard drive for security and protection.

## **3.2 IP Camera and Monitor Connection**

DVR video output signals are transmitted to VGA monitor or HDMI monitor by VGA or HDMI cable and DVR video can be monitored (Refer to section 1.2 Rear Panel). Refer to Chapter 6 System Connection Diagram.

## **3.3 Power Supply Connection**

Please use attached power adapter to connect DVR. Before power on, make sure the cables on the audio and video I/O ports and network port are well connected. For audio ports, please use microphone and other audio devices together with BNC connecting line to input or output audio signals.

## Chapter 4 DVR Boot up

## 4.1 System Initialization

After connecting the power cable of DVR to wall outlet and pressing the power button, you will

enter into the DVR system initializing screen shown as Picture 4-1.



**Note:** The illustration in the user manual may not be the same as the menu interface in your monitor. All the illustrations are only for users'

Picture 4-1

## 4.2 Startup Wizzard

After DVR startup is completed, the startup wizard will be displayed. If you do not want to make any setting, you may click "Don't show this window next time" to cancel, as shown in Picture 4-2.

Wizard setting menu includes: Homepage, Network setup, Record Schedule and HDD.

1. Homepage and network setup. In network setup page, user may set the network environment of DVR, as shown in Picture 4-3

	Startup Wizard		Net	work Configuration		
		PPPoE	DHCP	• Static		
		Client Port	09995	HTTP Port 099	96	
Welcome		IP Address	192.168.001.232			
Welcome		Subnet Mask	255.255.255.000			
Treiconie		Gateway	192.168.001.001			
Welcome to use the wizard of		DNS1	192.168.001.001			
	Welcome to use the wizard of setup	DNS2	000.000.000.000			
		UPNP	Enable 🔻			
Don't show this window next tim	ie. ★ Cancel → Next	Do Not show	w this window next time.	🗙 Cancel	← Previous	→ Next









Picture 4-4

3. HDD Management (Picture 4-5). It supports HDD format and overwrite type.



Picture 4-5

### 4.3 Main Interface

A-CH1	A-CH2	12/08/2015 15:08:28	A-CH4	A-CH5
A-CH6	A-CH7	A-CH8	A-CH9	A-CH10
A-CH11	A-CH12	A-CH13	A-CH14	A-CH15
A-CH16	IP CH1	IP CH2	IP CH3	IP CH4
IP CH5	IP CH6	IP CH7	IP CH8	



**Note:** When internal HDD is not connected to DVR, the character "H" will appear on the lower part of the main interface and accompany buzzer alarm. If you want to disable the buzzer alarm, please enter into [Event->Alarm] to disable HDD loss alarm, HDD space insufficiency alarm and set alarm output to "off".

## **Chapter 5 DVR Menu**

## Popup Menu

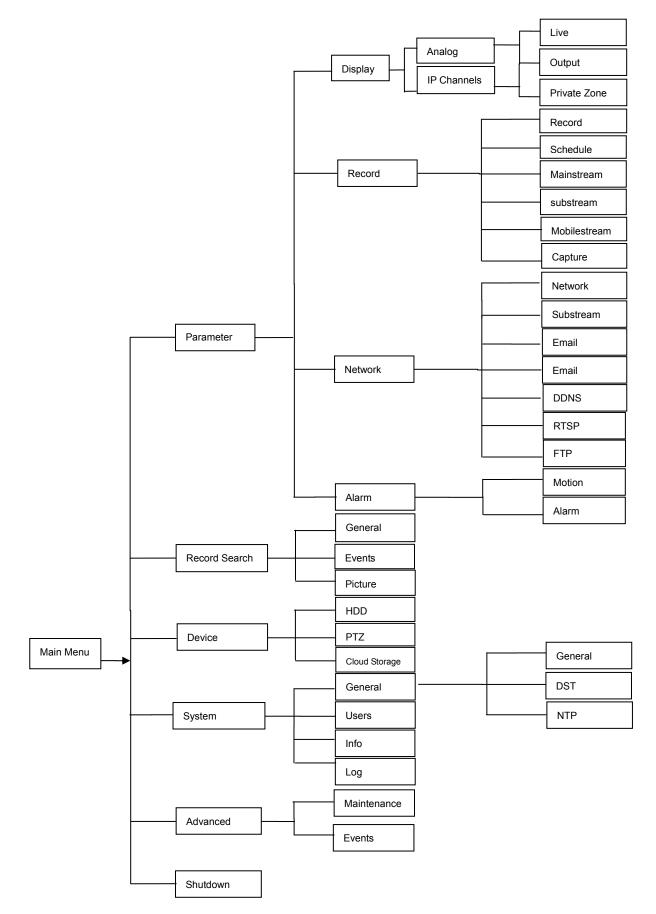
After finishing system initialization, click right key of mouse on preview interface or slide the mouse to the bottom of screen to enter into Pop-up Menu. Now you could perform parameter setting and operate on Main Menu, Multi-screen, Auto Cruise, Record Search, Sequence, Volume setting and Brightness setting, shown as Picture 5-1.

The options in the pop-up menu may be varied slightly according to different parameter settings and application environment. The options in the menu will be explained in detail in the following chapters.

A-CH1	A-CH2	12/08/2015 15:09:15	A-CH4	A-CH5
A-CH6	A-CH7	A-CH8	A-CH9	A-CH10
A-CH11	A-CH12	A-CH13	A-CH14	A-CH15
A-CH16	IP CH1	IP CH2	IP CH3	IP CH4
IP CH5		IP CH7 NO HDD	IP CH8	

Picture 5-1

## 5.1 Main Menu Guide



## 5.2 Main Menu

		_	-0	-		•
Parameter	Record Search	Device	System	Advance		utdown
E Display	Channel	Cha	innel Name		State	î
Analog Channels	CH1		CH1		Enable	
IP Channels	CH2		CH2		Enable	
Live	CH3		CH3		Enable	
Output	Malog Channels	CH1	CH2	🗹 СНЗ	CH4	
		CH5	🗹 CH6	CH7	CH8	
Image Control		CH9	CH10	CH11	CH12	
Privacy Zone		CH13	🛃 CH14	CH15	🗹 CH16	
E Record						
Capture						
- Network						
Alarm						

Picture 5-2

On LIVE mode, click the mouse button, or [Menu] button on the remote controller, or

click [

main menu screen, as shown in Picture 5-2

If system interface is locked, refer to section 5.3 to unlock by inputting password.

In Main Menu mode, you can make settings for Parameter, Record Search, Device, System, Advanced and Shutdown.

## 5.2.1 Parameter

#### 1. Analog Channels

Go to "Main Menu" → "Parameter" → "Analog Channel" 。 As shown in picture 5-3 Can be increase/decrease the number of analog channel, System will need to reboot to correct configuration parameters.





#### 2. IP Channels

Parameter	Record Search			Device		System	Advanced	Shutdown
🛒 Display	Channel		Edit	State		IP Address/Domain	Subnet Mask	Port
Analog Channels	IP CH1					192.168.2.15	255.255.255.0	9988
P Chaenels	IP CH2					192.168.2.9	255.255.255.0	9988
	IP CH3					192.168.2.14	255,255,255.0	9988
Live	IP CH4					192.168.2.191	255,255,255.0	9988
Output	IP CH5					192.168.2.195	255,255,255.0	9988
	IP CH6					192.168.2.13	255,255,255.0	9988
Image Control	IP CH7					192.168.2.196	255.255.255.0	9988
Privacy Zone	IP CH8					192.168.2.10	255.255.255.0	9988
Record	IP CH9							
	IP CH10							
Capture	1						-	
Network	Auto Assign	IP 1	o Cam	era(s)	C	hannel Delete	Add All Use	r-defined Add

Picture 5-4

Channel	СН1				
Position	Left-Top				
IP Address/Domain	192.168.1.19				
Subnet Mask	255.255.255.000				
	15902				
	Onvif				
User Name	admin				
Password					

Picture 5-5

- > Channel: IPC camera channel
- Edit: Modify the name and location of channels, change other IPC or protocols, etc, as shown in Picture 5-5
- State: Display IPC on-line state
- > **IP address:** Modify IP address of IPC camera.
- > **IP Address/Domain:** IP address of the IPC connected of the channel
- > Subnet Mask: IPC camera subnet mask
- > **Port:** Connection port number of the currently set IPC.
- > Manufacturer: Manufacturer for different IPC
- > **Device type:** Add IPC with different protocols.
- > Protocol: The selected access protocol for IPC to connect to NVR
- > MAC Address: Physical address for device
- **Software:** Display current version of IPC.

#### 3. Live

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Display"  $\rightarrow$  "Live" to enter into the interface shown as Picture 5-6.

 $\geq$ 

 $\triangleright$ 

		1			•
- <b>*</b>		-			۲
Parameter	Record Search	Device	System	Advanced	Shutdown
🔜 Display	Channel	СН1			
Analog Channels	Channel Name	CH1			
IP Channels	Show Name	Enable			
Live	Record Time	Enable			
Output	OSD Position	Setup			
	Color	Setup			
Image Control	Covert	Disable			
Privacy Zone	AHD EQ	Disable			
Record	Show Time	Enable			
Capture					
Network	Copy CH1	To All	Сору		
🕮 Alarm				Default S	ave Cancel



Show Name: Showing Channel name
 Record Time: Enable or disable displaying

drop-down list.

Adjust the brightness,

system time in recording.
 OSD Position: Adjustment the position of channel nanme and time display

Channel: Select the channel in the

**Channel Name:** Channel name, support up to 8 characters or 4 Chinese characters.

- Color: Click "Setup" to enter into the color setting page (Picture 5-7)
- > Covert: Enable/Disable Video hiding
- AHD EQ: Switch of AHD signal equalizer
- Show Time: Enable or disable the system time display in the live interface.
- Copy: Copy the parameters in the channel to any other channel or all channels.

saturation of the image in selected channel in "Live"

**Note:** To modify the parameter value in sub-menu and make it effective, click "**Save**" after modification and a dialog box with message "parameters have been successfully saved" will pop up. Click "OK" in the interface and click "**Exit**" to exit the menu. If you want

hue, contrast and

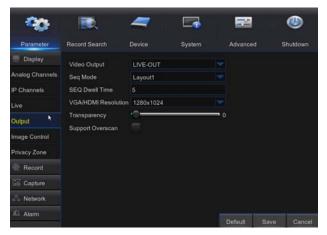
	Color	
Channel	CH1 V	
HUE		31
BRIGHT		28
CONTRAST		24
SATURATION	0	31
Defau	it Save Cancel	



#### 4. Output

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Display"  $\rightarrow$  "Output" to enter into the interface shown as Picture 5-8.

interface.



Video Output: Live Output

to cancel the modification, click "Cancel" to exit.

- Sequence Mode: Set sequence mode
- SEQ Time: Sequence time is set 5 seconds by default. User may set it as required
- VGA/HDMI Resolution: For VGA output or HDMI output, the optional resolution include 1024×768, 1280×1024, 1440×900, 1280 ×720, 1920×1080
- Transparency: Adjust menu transparency in the range of 0--128.
- Support Overscan:Support HDMI overscan

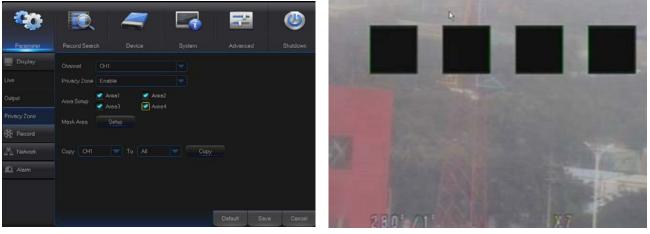
Picture 5-8

#### 5. Private Zone

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Display"  $\rightarrow$  "Private Zone" to enter into the interface shown as in Picture 5-9.

Privacy Zone is for setting some invisible parts in the selected channel, as shown in Picture 5-6 and Picture 5-10.

- 1. Select the number of the zone to be set (maximum 4 zones can be set for single channel)
- 2. Click "Setup" to adjust the position of the zone.
- 3. After finish setting, right click the mouse to return to the "**Privacy Zone**" page.
- 4. Click "Save" to save the setting.



### 6. Record Picture 5-9

Picture 5-10

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Record"  $\rightarrow$  "Record" to enter into the interface shown as Picture 5-11.

				Company and	
Parameter	Record Search	Device	System	Advanced	Shutdown
Display	Channel	CH1			
Record	Record Switch	Enable			
Record	Stream Mode	Mainstream			
Record Schedule	PreRecord	Enable			
Mainstream	Redudance Record	Enable			
Substream					
Mobilestream					
	Copy CH1	To All		 ору	

Picture 5-11

- Channel: Set the desired channel in the drop-down menu
- > **Record Switch:** Enable/disable record
- Pre Record: Enable to pre-record motion detection or I/O trigger record.

#### 7. Record Schedule

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Record"  $\rightarrow$  "Record Schedule" to enter into the Record Schedule interface to make record schedule for DVR, as shown in Picture 5-12.



Picture 5-12

Select the channel and the date to be set. One week's schedule can be set.

The record schedule of the current channel can be copied to any other channel or all channels.

Note:

- 1. In the Record menu and Record Search menu, No Color stands for no record;
- 2. "Green" stands for normal record and "yellow" stands for motion record
- 3. "Red" stands for alarm record,

#### 8. Mainstream

Go to "Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Record"  $\rightarrow$  "Mainstream" to enter into the menu interface, as shown in Picture 5-13.

Parameter     Record Search     Device     System     Advanced     Shutde       Display     Channel     CH1     CH1<	>
Channel     CH1       Record     Resolution       Record     FPS       Bitrate Control     CBR       Bitrate Mode     Predefined       Bitrate Mode     Predefined       Bitrate     4096       Kbps       Audio	own
Record     FPS     15       Record Schedule     Bitrate Control     CBR       Mainstream     Bitrate Mode     Predefined       Substream     Audio     Kbps       Mobilestream     Free Capture     Free Capture	
Record Schedule     Bitrate Control     CBR       Mainstream     Bitrate Mode     Predefined       Substream     Audio       Mobilestream       Scapture	
National Schedule     Bitrate Mode     Predefined       Mainstream     Bitrate     4096     Kbps       Substream     Audio     Audio       Mobilestream     Capture	
Mainstream Bitrate 4096 Kbps Substream Audio	
Substream Audio Mobilestream Capture	
E Capture	
and Network	
Alarm Copy CH1 To All Copy	
Default Save Cr	ancel

Picture 5-13

"Main Menu"  $\rightarrow$  "Record"  $\rightarrow$  "Mainstream"

- Channel: Support Analog and IPC. Select a resolution, save and exit main menu. Then the system will automatically restart to take effect.
- Resolution :464\*240/928\*240/928\*480/1280 \*720/1920\*1080
- Note: In AHD series, the supported record resolution includes 960H/720P/1080P;
- > FPS: PAL: 1—25FPS NTSC:1-30FPS
- Bitrate Control: Select either constant (CBR)
   / variable (VBR) bit rate
- Bitrate Mode: Select default/custom bit rate
- Bitrate: Bit rate setting
- Audio: Enable audio recording

#### 9. Substream

Go to "Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Record"  $\rightarrow$  "Substream"

" to enter into the menu interface, as shown in Picture 5-14

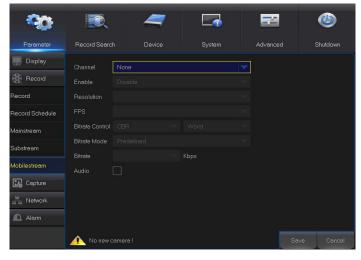
Parameter	Record Search	Device	Sy	stem	Advanced	s	hutdown
💻 Display	Channel	СН1					
Record	Resolution	352 x 240					
Record	FPS						
Record Schedule	Bitrate Control	CBR					
Mainstream	Bitrate Mode	Predefined					
Substream	Bitrate Audio	96	Kbps				
Mobilestream							
26 Capture							
≓≟ Network							
Alarm	Copy CH1	🔽 To	All		Сору		

Picture 5-14

- Channel: Select recording channel
- Resolution: Select recording resolution
- FPS:Select recording frame rate
- Bitrate Control: Select either constant (CBR) / variable (VBR) bit rate
- Bitrate Mode: Select default/custom bit rate
- Bitrate:Bit rate setting
- Audio: Enable audio recording

#### 10.Mobile stream

#### Go to "Main Menu"->"Parameter"->Mobile stream。 As shown in picture 5-15



Picture 5-15

- Channel: Support IPC Channel
- Enable:Enable/Disable IPC mobile
   stream
- FPS:Select recording frame rate
- Resolution: Select recording resolution
- Bitrate Control: Select either constant (CBR) / variable (VBR) bit rate
- Bitrate Mode:Select default/custom bit rate
- Bitrate:Bit rate setting
- Audio: Enable audio recording

#### 11.Capture

Go to "Main Menu"->"Parameter"->Capture。 As shown in picture 5-16



Picture 5-16

- Channel: Select capture channel
- > Auto Capture: Enable/Disable auto capture
- Stream Mode: Select capture resolution
- Normal Interval:Select interval time of Normal capture
- Alarm Interval:Select interval time of alarm capture
- Manual Capture:Enable/Disable manual

Note: Manual capture can use the mouse to click on the icon [1999] in the live window to complete this function at a time.

#### 12. Capture Schedule



Go to "Main Menu"->"Parameter"->Capture Schedule。 As shown in picture 5-17

- > Normal: Conventional capture setting
- Motion: Motion detect capture setting
- > Alarm: Alarm capture setting

picture 5-17

#### 13. Network

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Network"  $\rightarrow$  "Network" to enter the interface shown as Picture 5-18.

Select a kind of network connection (PPPOE, DHCP, Static) and set Port, and user may remotely control the monitoring, recording, playback or backup of DVR through network

Take DHCP as an example. In this mode, the router automatically assigns IP address for DVR. After restarting DVR or DHCP server, the IP address obtained by DVR may be different. As a result, user shall check IP address and port number for each remote access of DVR. The operation procedure is as follows:

- 1. Select DHCP, click Save and refresh DVR. Input Client Port and HTTP Port (the two values must not be the same).
- 2. Set obtained IP address of DVR and the mapping port. Refer to section 4.2.4.2.
- 3. Remotely visit DVR by IP address:

http://Public network IP: Web port number (such as 00080)

http:// Intranet IP: Web port number (such as 00080) (Only available in the same LAN)

		7	<b>-</b>	-	٨
Parameter	Record Searc	h Device	System	Advanced	Shutdown
📃 Display		DHCP	C Static	3 💭	G
Record	Client Port 39	999	HTTP Port	38888	
Capture					
- Network	IP Address Subnet Mask	192.168.002.110 255.255.255.000			
Network	Gateway				
Email	DNS1				
Email Schedule	DNS2	008.008.008.008			
DDNS					
RTSP					
FTP	UPNP Enabl	e			
🕰 Alam	LIND		*	Default Sa	ve Cancel

Picture 5-18

For PPPoe, Static and DHCP, after setting IP address of DVR, the extranet port shall be mapped on the router before visiting DVR through public network.

Note: Save after setting to make effective. If there are multiple DVRs in a LAN, make sure their MAC addresses are different (Refer to System).

#### 14. E-mail

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Network"  $\rightarrow$  "Email" to enter into the menu interface.

Receive or Send DVR alarm Email and set parameters like Email address, SSL, Email Enable, Interval and Email Schedule. The related parameter setting should be consistent with DVR local setting. Refer to Picture 5-19.

-	100	_		<b>1</b> 22	
-0					<b>~</b>
Parameter	Record Search	Device	System	Advanced	Shutdown
💻 Display	Email	Disable			
Record	SSL 🛓				
26 Capture	SMTP Port	00025			
ేద Network	SMTP Server Sender				
Network	Sender Sender Password				
Email	Receiver				
Email Schedule	Interval			TestEmail	
DDNS					
RTSP					
FTP					
🕮 Alarm				Default Sa	ave Cancel

Picture 5-19

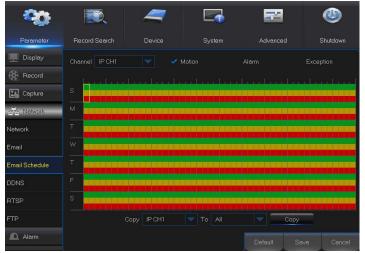
#### 15. E-mail Schedule

Select the channel and the date to be set. One week's schedule can be set.

The record schedule of the current channel can be copied to any other channel or all channels.

Note:

- 1. Green stands for Motion: Email will be sent in case of object motion;
- 2. Yellow stands for Alarm: Email will be sent in case of IO alarm;
- 3. Red stands for Exception: Email will be sent in case of exception, e.g. HDD full, HDD damage, Video loss, etc.



Picture 5-20

#### 16. DDNS

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Network"  $\rightarrow$  "DDNS" to enter into the menu interface. User may set DDNS in any one of the above 3 network connection types after applying dynamic domain service. User may remotely access DVR through domain by using browser in the form of http://applied domain: mapped Web port number. When using DDNS domain name to access DVR, user shall confirm that the port can be normally connected to current IP on the public network and the settings for server address/host name/user/password/setting should be consistent with DVR local setting. See Picture 5-21.

- 00		811	4				٩
Parameter	Record Se	arch	Device	System	Advance		Shutsown
E Display	DONS	Disable					
Record	Server						
Capture	Domain						
Z. Network	User						
Network	Password	ł					
Emai							
Email Schedule							
DONS							
RTSP							
ETP							
					Default	Save	Cancel

Picture 5-21

#### 17. RTSP

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Network"  $\rightarrow$  "RTSP"

Set User Name and Password to view video by PC software VLC (See Picture 5-22)

<b>~</b>	<b>I</b>	4			٢
Parameter	Record Search	Device	System	Advanced	Shutdown
Display Display Record Capture Capture Network Email Email Schedule	RTSP Enable Verify RTSP Port RTSP UserName RTSP Password Instruction:rtsp://IP: Analog Channel: rtsp://I An00(ch1).01(ch2) B:0(main stream).1	Port/chA/B isp://IP:Port/chA/B P:Port/ipA/B			
DDNS RTSP FTP Alarm					

Picture 5-22

? 🛛 📥 Open Media File 💿 Disc 👫 Network 📑 Capture Device Playlist 📄 Play Network Protocol ∎<sup>B</sup> Med Please enter a network URL: My Con ~ rtsp://172.18.6.11:554/live/03\_01\_01 H My http://www.example.com/stream.avi rtp://@i1234 mms://mms.examples.com/stream.asx rtp://server.ample.org/0800/est.sdp http://www.yourtube.com/watch?v=gg64x 51 My 💌 My Devices 🥑 Dise R Show more options VLC media --;--Play - Cancel player

Follow the instruction to input IP and port to preview video (See Picture 5-23)

Picture 5-23

#### 18. FTP

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Network"  $\rightarrow$  "FTP"

Set IP, User Name and Password to view the captured pictures in the server (See Picture 5-24). Enter into <u>ftp://relay.anw.ru/</u>and input User Name and Password to view the captured pictures (See Picture 5-25)

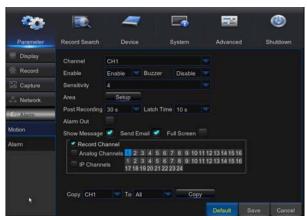
<b>60</b>	<b>I</b>	_		łł.	۷	
Parameter	Record Search			Advanced	Shutdown	
Record	FTP Enable	Disable				
Network	Server IP					Internet Explorer
Network	Port					
Substream	Name					To log on to this FTP server, type a user name and password.
Email	Password					FTP server: relay.anw.ru
Email Schedule	Directory Name					User name:
DDNS						Password:
RTSP						After you log on, you can add this server to your Favorites and return to it easily.
FTP	×					Log on anonymously
Alarm				Default	Save Cancel	Log On Cancel
	v.	Dioturo E (	0.4			Disture 5 25

Picture 5-24

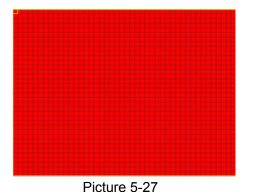
Picture 5-25

#### 19. Motion

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Alarm"  $\rightarrow$  "Motion" to enter into the interface shown as picture 5-26







- > Channel: Enable or disable Motion function.
- Sensitivity: Support 1-8 level, 8 is the highest level.
- Buzzer: When detecting object moving, buzzer makes alarms (disable, 10 seconds, 20 seconds, 40 seconds and 60 seconds).
- Alarm Out: Connect to the alarm switch of the alarm apparatus.
- Show Message: Messages will be displayed on the screen when moving object is detected and alarms are made.
- Send Email: When moving object is detected, send Email to the specified Email address.
- Full Screen: When moving object is detected, messages will be displayed in full screen.
- Latch Time: When moving object is detected, the alarm time can be set as 10 seconds, 20 seconds, 40 seconds and 60 seconds.
- Post Recording: After the alarm finishes, the duration time of the alarm recording can be set as 30 seconds, 1 minute, 2 minutes and 5 minutes.
- Area: Click it to enter into the interface shown as Picture 5-27 to set the motion detection area to be monitored intensively.

A single channel is divided into 15×12 (PAL) or 15×10 (NTSC) configurable grids. The red grids indicate that the motion detection in the area is enabled, white semitransparent ones indicates that the motion detection in the area is disabled. After setting is completed, right click the mouse button to return and click Save to make the parameter setting effective.

**Record Channel:** When object motion is detected, the record channel setting will be activated.

#### 20. Alarm

Go to "Main Menu"  $\rightarrow$  "Alarm"  $\rightarrow$  "Alarm" to enter into the interface shown as Picture 5-28.

	Record Search Alarm In Alarm Type	Device	System	Advanced	Shutdown
Record					
	Alarm Type				
Capture		Normally-Open			
	Latch Time	10 s			
a Network	Buzzer	OFF			
🕰 Alarm	Post Recording Alarm Out	30 s			
Motion	Show Mess	age 📝 Send Emai	I 🦳 Full Screen		
Alam	Record Cha Analog Cha IP Channel	nnels 2 3 4 5	678910111	2 13 14 15 16 2 13 14 15 16	
	Copy IO-1	🔽 To All		Сору	

Picture 5-28

It is the alarm management and setting of the machine. User may set alarms under different status in the interface. Please refer to Table 2-4.

- Alarm In: User may set four groups of alarm input.
- Alarm Type: There are three kinds of status, i.e. Always ON, Always OFF, and OFF. Always ON: When the trigger is on, I/O alarm appears; Always OFF: When the trigger is off, I/O alarm appears; OFF: Do not receive I/O alarm from trigger.
- Buzzer Time: You can set how long the buzzer will sound when motion is detected (off, 10s, 20s, 40s, 60s)
- > Alarm out: Connect the external alarm switch.

> ow Message: Display the alarm messages on the screen when motion alarm is detected.

- > Send Email: Set to send email to specified email when motion alarm is detected.
- Full Screen Alarm: When the motion is detected, the corresponding channel will be switched to the full screen mode.
- Latch time: you can set how long the buzzer will sound when object move is detected by external sensor (10s, 20s, 40s, 60s)
- Post Recording: You can set how long alarm record will last when alarm ends (30s, 1minutes, 2minutes, 5minutes).
- **Record Channel:** The record channel will be activated when the object move is detected.
- Copy: Allow you copy current channel parameters to any other channel (setting of record channel cannot be copied).

Alarm Type	Functions & Descriptions
Video Loss	When DVR fails to receive video signals due to some problems (camera damage, line dropout or damage, power failure), the alarm will appear.
Motion Detection	When IP camera detects object moving, alarm will be activated. Sensitivity is subject to the actual application environment test. <b>Sensitivity</b> is adjusted according to the sensitivity of moving object detection and parameters are modified by combining the <b>area setting</b> .
I/O Status	Communicate with alarm device through I/O port. Alarm signals sent by IR sensor or other devices will be transformed to the system recognized signal and activate relevant channel to record or control the device output.
HDD Status	Alarm will appear when HDD does not work due to damage, power failure, HDD auto-overwrite off and insufficient space.

Table 2-1

### 5.2.2 Record Search

#### 1. General

Go to "Main Menu"  $\rightarrow$  "Record Search"  $\rightarrow$  "Record Search" to enter into the interface shown as Picture 5-29.







Picture 5-30

- Channel: Select the channel you want to search.
- Type: Select the type the playback record. There are two options, i.e. Normal and Alarm.
- Start Time/End Time: Select the specific period of time. The default setting is from 0:00 to 24:00.
- Playback Channel: Click a date and select corresponding channel in Playback Channel. The selected channels shall not be more than 16, as shown in Picture 5-30.
- Playback: Select the desired year and month and click "Search". If there are any records, a yellow corner mark which shows the recording at specific date will appear at the down-right corner of the date sheet. Select the date checkbox and select playback channel and click Playback to enter into the interface.
- Playback interface: You can use the Playback Control bar to operate the Fast Forward (X2, X4, X8 and X16), Rewind (X2, X4, X8 and X16), Slow play (1/2, 1/4 and 1/8 speed), Play, Pause/Frame. You can click or drag the volume control bar to adjust volume. When playback ends, DVR will remain in the playback interface, as shown in Picture 5-25.

#### Time Axis setup, file clip and zoom in/out

1) The DVR supports the processing control bar function when playing back record files (See Picture 5-31 and 5-32)



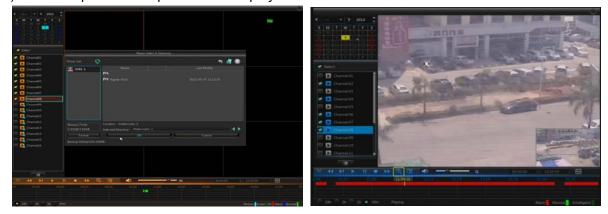
Picture 5-31

Picture 5-32

Time Axis zoom: Default value is 24hours. Allow user to select 2 hours, 1 hour, 30 minutes or user-defined.

#### ۶ **Detailed Operation:**

Fixed time axis: If you select [ 2h ] option, that means the processing control bar cover two-hour video content. The time range refers to 1 hour before and after the middle point. 2) Record clip and backup function and playback zoom in/out function.





Picture 5-34

- **Clip and backup:** When it is under single channel playback, the [ 100 will appear in ] icon will appear in  $\triangleright$ the Play Control bar shown as Picture 5-28. Click the icon to start video clip function, click the icon again to end the function and pop up the dialog shown as Picture 5-34. Now, you may save the clipped video file.
- **Zoom out:** When it is under single channel playback, the 💽 icon will appear in the Play  $\triangleright$ Control bar. Click the icon to zoom in certain area of the playback screen and right click mouse to return the Playback page (See Picture 5-34)

#### 2. Events

Go to "Main Menu"  $\rightarrow$  "Record Search"  $\rightarrow$  "Events" to enter into the interface shown as Picture 5-35.

In this page, user may search details by date, time, channel and record type. The relevant operations are as follows:

Parameter	Record Se	earch		Dev	rice		Syste	m	Advar	nced	Shutdown
🖗 General	Date	12/0	8/2015	5 30	Time	00:0	00:00	2	3:59:59	All	
Events	Channel				Туре			Qu	ick Backup	Search	
Picture	Cha	nnel	Туре		Date		Start Tin	ne	End Time	Size	Playba
	CH	113	N	12/	08/201	15	00:00:0	0	00:01:44	79MB	
	CH	114	Ν	12/	08/201	5	00:00:0	0	00:00:29	20MB	
	CH	115	N	12/	08/201		00:00:0	0	00:03:50	172MB	
	CH	116	N	12/	08/201		00:00:0	0	00:01:16	57MB	
	IP (	CH1	N	12/	08/201	15	00:00:0	0	00:02:14	67MB	
	IP (	CH2	N	12/	08/201		00:00:0	0	00:02:52	65MB	
	IP (	снз	N	12/	08/201		00:00:0	0	00:07:45	175MB	
	IP (	CH4	N	12/	08/201		00:00:0	0	00:02:27	55MB	
	, <u> </u>	-115	м	40/	00/000	15	00-00-0	<u>^</u>	00-02-50	67MD	



i Previous page; Click the button to go to previous page when viewing events (except the first page). When viewing the first page, click this button to display the event list in the first page.

: Next page; Click the button to go to next page when viewing events (except the last page). When viewing the last page, click this button to display the event list in the last page.

: Jump; Input the desired record event page in the input box and click arrow button to jump to the input page.

Two types of backup: Quick Backup and Backup

If you want to back up a record in the detailed file list, you may tick the checkbox at the left of the

record (" $\sqrt{}$ "means it has been selected) and click "Backup" to enter into "Select backup type"

(Make sure U disk or other portable storage device are connected), as shown in Picture 5-36.

Parameter	Record Search		Device	System	Advar	iced	Shutdown
General	Date 12/0	8/201	5 📷 Time 00	.00:00	23:59:59	All	
Events	Channel A		Backup	туре	up	Search	
Picture	Chanr		H264	AVI	me	Size	Playba
	CH1		1204	- AVI	44	79MB	
	CH1-				29	20MB	
	CH1	Siz	e: 99.5MB		50	172MB	
					16	57MB	
	IP CH					67MB	
	IP CH		Save	Cancel	52	65MB	
	IP CH3	Ň	12/08/2015	00:00:00	00:07:45	175MB	
	IP CH4		12/08/2015	00:00:00	00:02:27	55MB	
	in cut		10000010	00.00.00	00:02-60	07140	

Picture 5-36

If you want to back up with USB/ESATA, select USB/ESATA and click OK to start processing and you may see the backup progress shown as Picture 5-36. After backup finishes, message Backup Finishes will appear at down-right corner, as shown in

Picture 5-37.

**Note:** Before backup, connect devices for backup (U flash disk or other mobile storage devices with USB interface)

	Please S	elect A Direct	tory
Driver List: 📀			to 🗗 🖏
USB1-1			Last Modify
	<b>(</b> ] .		
	fbgrab-3531		
	ch01-20150507-10492	10.84MB	
	ch04-20150507-10492	9.37MB	
	ch05-20150507-10492	10.84MB	
Remain:/Total:	Location: /hidev/usb1-1		
7.43GB/7.43GB	Selected Directory: /hidev/usb	1-1	▲ ►
Format	OK		Cancel
Backup Successful !			
		×	<< 1/2 0
			Backup Cancel
			backup cancer

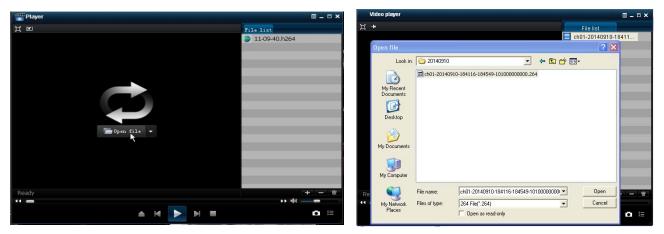
Picture 5-37

#### 3. Play Backup Files

1.Copy backup files to the computer.

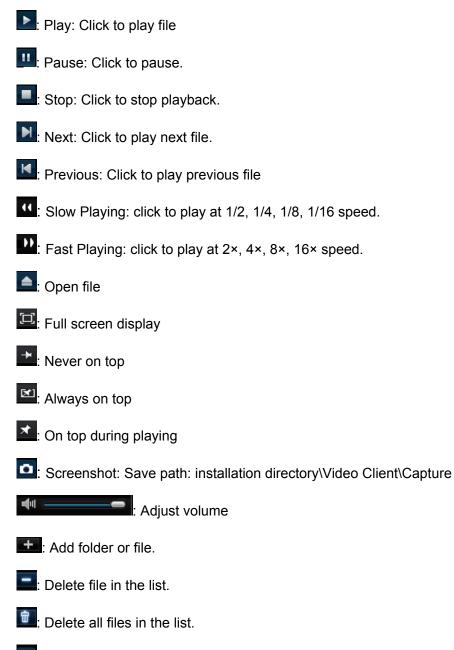
2.Open playback player and click "+" or " " " " " " ". For example, if you want to choose

\*.264, add backup file and select a file to play, as shown in Picture 5-38 and 5-39.









Expand/pack up the list.

Advanced configuration: Set the save path for the captured pictures and set the display language of player, as shown in picture 5-40.

Video player		■ _ □ ×
Advance config		
Capture path		
Save path	C:\Documents and Settings\123\VideoPlayer Picture	Select
	🔽 Enable Watermark	
Language set		
	English	
Language	Crigiisii.	
Version : 1.2.15		
	OK Cancel	

Picture 5-40

#### 4. Picture

Go to "Main Menu"  $\rightarrow$  "Parameter"  $\rightarrow$  "Picture 5-41"

Support search picture for 5000pcs each time. If the picture number greater than this value, please adjust the date (time) of the current search and search again.

<del>.</del>		ð,	4	7		8		٢
Parameter	Record S	Search	Devic	e	System	Advan	ced	Shutdown
쯒 General	Date			Warnir	ng!			_
Events	Chann						Search	
E Picture		The Curr	ent Picture Need To S	Number Is Shorten TI	s Greater Than 5 ne Date Search.	000, You	Size 274KB 310KB 322KB 295KB	Playback
		5	CH5	N	2015/12/08	09:11:28	166KB	
		6	CH6	Ν	2015/12/08	09:11:28	154KB	
		7	CH7	Ν	2015/12/08	09:11:28	175KB	
		8	CH8	Ν	2015/12/08	09:11:28	177KB	
		9	CH9	Ν	2015/12/08	09:11:28	176KB	
						<<	1/167 1 Backup	>> Cancel

Picture 5-41

Go to "Main Menu"  $\rightarrow$  "Record Search"  $\rightarrow$  "picture" to enter into the interface shown as Picture5-42.

In this page, user may search details by date, time, channel and record type. The relevant operations are as follows:

: Previous page; Click the button to go to previous page when viewing events (except the first page). When viewing the first page, click this button to display the event list in the first page.

: Next page; Click the button to go to next page when viewing events (except the last page). When viewing the last page, click this button to display the event list in the last page.

: Jump; Input the desired record event page in the input box and click arrow button to jump to the input page.

Two types of backup: Quick Backup and Backup



Picture 5-42



**EXAMPLE** : Single, Quarter, Nine window display.

## 5.2.3 Device

#### 1. HDD

HDD			1140194300	1	
	No	State	Free/Total	Free Time	Select
			500G/500G	168Hour	

Picture 5-43

	No	State	Free/Total	Free Time	Select
PTZ		ОК	1850G/1863G	43Hour	0
Cloud	2		Notice		0
			OK		

Picture 5-44

When HDD is connected, the system will automatically detect if HDD is normal or not; If HDD need to be formatted, status will be shown as "Not formatted". Select the HDD and format the HDD. If the system detects HDD is normal state, the HDD status will be shown as "Normal". See Picture 5-44

- **No.:** Number of HDD connected to system.
- Status: It shows the current status of HDD. It will be available only when HDD is "Normal".
- Free/Total Space: Remaining or total space of HDD
- Free Time: Remaining time for HDD recording according to currently set "Resolution", "Encoding Rate" and "Frame Rate" of image.
- Auto-overwrite: When set to ENABLE, the NVR will overwrite the oldest files on the hard drive if hard drive space is full. When set to DISABLE, the DVR will stop recording if hard drive space is full. Overwrite time: 1 day, 3 days, 7 days, 14 days, 30 days and 90 days. It means the longest storage time of records in HDD. If the time is over, the records will be deleted. For example, if the time is set as 3 hours and the data in HDD include 12, 13, 14, 15, 16, 17, 18, 19 and 20 o'clock, then data 18, 19 and 20 will be saved and data 12, 13, 14, 15, 16 and 17 will be deleted.
  - Format HDD: Format HDD for the first use.

**Note:** Recording can only be performed when HDD is in "Normal" state.

Go to "Main Menu"  $\rightarrow$  "Device"  $\rightarrow$  "HDD" to enter into the interface shown as Picture 5-43.

Select a PTZ channel and set PTZ protocol (Pelco-D, Pelco-P), Baudrate (1200,

Parameter setting for above channels must be the same as that of PTZ so that PTZ can be controlled. The protocol, baudrate and

2400, 4800, 9600), DataBit(8, 7, 6, 5), StopBit

(1, 2), Parity (None, Odd, Even Mark Space),

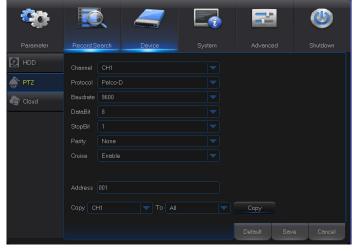
Address and Cruise.

PTZ address must be set.

## 5.2.4 PTZ and Cloud Storage

#### 1. PTZ

Go to "Main Menu"  $\rightarrow$  "Device"  $\rightarrow$  "PTZ" to enter into the interface shown as Picture 5-45.



Picture 5-45

#### 2. Cloud Storage

Cloud: Cloud Space (Network HDD). It can upload the DVR periodically captured pictures

and motion detection captured pictures to Dropbox

- 1) Register in Dropbox website, Address: <u>https://www.dropbox.com/</u>
- 2) Configure network to ensure the normal operation of DVR network.
- 3) Configure Cloud: Enable Cloud and set the channel and interval for DVR periodically captured pictures; Enable Motion Detection to get captured pictures for motion detection.
- DriName refers to the name created in the folder of Dropbox and the name can be defined by the user, e.g. CloudDVR000. The folder is to store the DVR periodically captured pictures) (See Picture 5-46).
- 5) Click [Advanced E-mail Setup] to set the Email box. User shall input his Email. (See Picture 5-47)



Picture 5-46

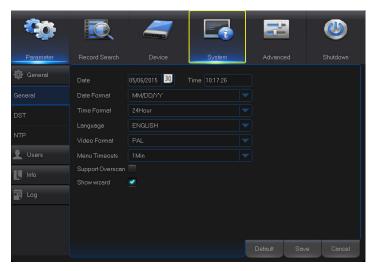
Picture 5-47

- Click [Active Cloud] to activate Cloud and Email will receive the URL related to Cloud User input the registered user name to visit the above website and the following interface will be popped up.
- 7) Click the icon at the upper-left to view the folder (CloudDVR000) made in the 4<sup>th</sup> step.
- 8) Enter the folder to view the DVR captured pictures.

### 5.2.5 System

#### 1. General

Go to "Main Menu"  $\rightarrow$  "System"  $\rightarrow$  "General"  $\rightarrow$  "General" to enter into the interface shown as Picture 5-48

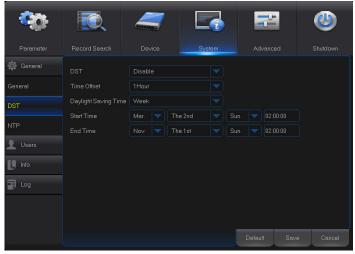


User may set Date, Time, Date Format, Time Format, Language, Video Format, Menu Timeouts and Show

Picture 5-48

#### 2. DST

Go to "Main Menu"  $\rightarrow$  "System"  $\rightarrow$  "General"  $\rightarrow$  "DST" to enter into the interface shown as Picture 5-49



Enter into the interface shown as Picture 5-49 to set DST, Time Offset, Start Time and End Time.

Picture 5-49

time.nist.gov,

#### 3. NTP

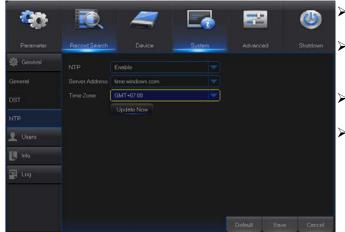
Go to "Main Menu"  $\rightarrow$  "System"  $\rightarrow$  "General"  $\rightarrow$  "NTP" to enter into the interface shown as Picture 5-50.

function.

(time.windows.com,

pool.ntp.org).

every start-up.



Picture 5-50

4. Users

Go to "Main Menu"  $\rightarrow$  "System"  $\rightarrow$  "Users" to enter into the User interface shown as Picture 5-51.

Parameter		Device	System	
	No.	User Name	Level	Enable
Users		admin	ADMIN	Eneble
		user1	USER1	Disable
mio				

User Permission User Name user1 Log Search Parameter Maintain Manual Record 💙 Disk Manage Remote Login SEQ Control Manual Capture Backup Analog Channels IP Channels Live 🗹 Analog Channels 🚺 IP Channels Playback Analog Channels IP Channels 🔮 PTZ Analog Channels IP Channels Save Clear

Picture 5-52

It supports up to seven users, including one administrator and six users. Click [Edit] button to enter into the [User Edit] interface to input user name and password, as shown in Picture 5-46

NTP service: Enable/Disable NTP

Server Address: Select NTP server

**Time Zone:** Corresponding time zones

**Update Time:** Enable NTP function and

save parameters and click Update Time

**Note:** When NTP function is set to "Enable", system will calibrate the system time at every 00:07:50 and

for various nations or regions.

to calibrate the system time.

User Name consists of 8 characters and password is composed by number 0-9 with max length of 8 numbers

Set user password. Administer is authorized to set user common user's authority, as shown in Picture 5-52

- Log Search: allow you check all the system logs.
- Parameter: allow you set all the parameters.
- Maintain: allow you update version, recover ex-factory value, device reboot and shut down.
- Disk Management: allow you manage and control the HDD and USB drive.
- Remote Login: allow you remotely login DVR.
- SEQ Control: allow you sequence live screens for all the channels.
- Manual Record: allow you manually start/stop record.
- **Backup:** Tick-select the ENABLE " $\sqrt{}$ " option and select channel for backup, the user is allowed to backup the record in the selected channel.
- > Live: Tick-select the ENABLE " $\sqrt{}$ " option and select a channel and the user is allowed to view all the live images in the selected channel.
- Playback: Tick-select the ENABLE "√" option of Playback and the common user is allowed to playback the selected record in the channel.

#### 5. User Edit

User may enable or disable the function or set password (See Picture 5-53)

<b>60</b>	💽 🚄 🗖	2 🕑	
Parameter	Record Search Device System Adva	anced Shutdow	
🧔 General	User Edit	Enable	ב
L Users	User Name user1	Enable	
📙 Info	User Enable Disable	Disable	
🛃 Log	User Name user1	Disable	
	Password Enable Disable	Disable	
	Password	Disable	
	Default Save Cancel	Disable	
			Ļ
	Permission	n Edit Canc	

Picture 5-53

#### 6. Info

Go to "Main Menu"  $\rightarrow$  "System"  $\rightarrow$  "Info" to enter into the interface shown as Picture 5-54.

Parameter	Record Search	Device	System	Advanced	Shutdown
<ul> <li>General</li> <li>Users</li> <li>Info</li> <li>Log</li> </ul>	Device ID Device Name Device Type Hardware Version Software Version IE Client Version IP Address MAC Address HDD Volume Video Format				
				Sa	ve Cancel

Picture 5-54

#### 7. Log

Parameter	Record Sear				Syster	n	Advan		
	Start Date	05/07/20	015 📅	Start Time	00:00:00				
	End Date	05/07/20	15 30	End Time	23:59:59				
Info	Log Type	All			56	arch			
	Channel	TYPE		TIME		CON.		RECORD	Playback
	CH4	Alarm	2015/0	5/07 00:13	54	Motion Sta	art -	Yes	
		Alarm		5/07 00:14		Motion Er	id.	Yes	
		Alarm	2015/0	5/07 02:45		Motion Sta	art		
		Alarm		5/07 02:45		Motion Sta	art.		
		Alarm	2015/0	5/07 02:45		Motion Sta	art	Yes	
		Alarm	2015/0	5/07 02:45		Motion St	ert.		
		Alarm	2015/0			Motion Sta	ırt		

Go to "Main Menu"  $\rightarrow$  "System"  $\rightarrow$  "Log", as shown in Picture 5-55

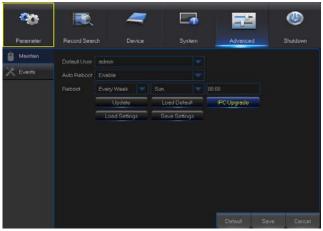
Picture 5-55

User may search log information in different period of time. Click "Backup" to save all the log information, as shown in Picture 5-55.

### 5.2.6 Advanced

#### 1. Maintain

Go to "Main Menu"  $\rightarrow$  "Advanced"  $\rightarrow$  "Maintain" to enter into the interface shown as Picture 5-56.



Auto Reboot: Enable the auto maintenance function to reboot system regularly at every day/week/month. When Auto Reboot is enabled, DVR should be in the main interface and no user operation.

Update: Click Update to enter the Device interface and select the updating file in USB to execute.

Picture 5-56

- Load Default: If [Load Default] is selected, you can initialize the system to the ex-factory default. Click "Load Default" and select items to be restored
- > **IPC Upgrade:** Support upgrade connected IPC.
- **Load Settings:** Load parameters in the removable storage device to DVR.
- Save Settings: Save the set parameters of user's DVR to the removable storage device.

**Note**: Do not take out the USB memory or cut off the power during upgrading. When the update is done, system will be automatically restarted. After about 5 minutes, the upgrading will be finished. It is recommended to **load ex-factory default** after upgrading. The auto maintain

function can be effective only when DVR returns back to Preview mode with no any operation within the set auto maintain time.

#### 2. Events

Go to "Main Menu"  $\rightarrow$  "Advance"  $\rightarrow$  "Events" to enter into the interface shown as Picture 5-57.

			anala	_		
<b>~</b> ??		7			-	٨
Perameter	Record Search			Advan	cod	Shutdown
Maintain						
🗶 Events						
					Save	Cancel

Picture 5-57

- Event Type: Support three abnormal types: Disk Full, Disk Error and Video Loss.
- Enable: Active alarms for abnormal situations.
- > Alarm Out: Enable or disable alarms
- Latch Time: How long the buzzer will sound when external sensor alarm is detected (10s, 20s, 40s, 60s).
- Show Message: You can set show message on the screen when sensor alarm is detected.
- Buzzer: How long the buzzer will sound (10s, 20s, 40s, 60s).
- Send Email: Select to send Email to specified Email address when abnormal events appear.

### 5.2.7 Shutdown

- Parameter
   Record Search
   Device
   System
   Advanced
   Shudown

   Maintain
   Event Type
   Disk Full
   Image: Constraint of the system
   Shudown

   Maintain
   Event Type
   Disk Full
   Image: Constraint of the system
   Shudown

   Send E
   User Name
   Advanced
   Shudown
   Send E
   User Name

   Alarn C
   Pessword
   Image: Concol
   Send E
   User Name
   Image: Concol

   Dutaut
   E
   Shudown
   Reboot
   Cencol
   Cencol
- So to "Main Menu"  $\rightarrow$  "Shutdown" to enter into the interface shown as Picture 5-58.

Picture 5-58

## 5.3 Menu Lock

In consideration of system safety, user may click the icon in the toolbar when he leaves away from DVR and the system interface will be locked. User has to input Device ID, User Name and Password on the login interface to unlock (**Default: User Name: admin, Password: blank**). The login interface is as shown in Picture 5-59.

		Login		
Device ID	000000		I	( 000000 )
User				
Password				
	Login		Cancel	



**Note:** Administrator has all authorization of menu operation and users have limitations for authorization and have to get authorization from administrator.

## 5.4 Split Mode

There are many display modes in video channel, including single channel display, SEQ display and split mode.

## 5.5 Record Search

Click contained on the toolbar to enter into the Record Search interface to search and playback. Refer to former section for specific operating method.

## 5.6 Mute

Click icon on the toolbar or Mute button on the panel or remote controller to control the mute of NVR.

## 5.7 Start Sequence

After set channel sequence time, click Start Sequence icon and the toolbar to start sequence.

# **Chapter 6 Web Application Manager**

## 6.1 ActiveX control download and installation

Open your web browser and input the IP address and Web port number of DVR, such as: <u>http://172.18.6.202:8080/</u>. If your computer is connected to internet, it will download and install "ActiveX" plug-in automatically. If you use Windows Vista or Windows 7 and unable to backup or record during remote operation, please check the user authorization.

WIN7:

Edit Wew Tools Help Control Panel Home	Make changes to your user account		0	User Accou	ant Control	be notified about changes to your computer helps prevent potentially harmful programs from making changes to your computer. er Account Control settings
Manage your credentials Create a password reset disk Link online Dis Manage your file encryption conflicates Configure advanced user profile properties Configure advanced reservation profile properties Configure advanced reservations and the second second second second profile properties Configure advanced second second profile properties Configure advanced second	Create a parsiveril for your account Change your picture Change your account nume Change your account type. Manage another account Change Use Account Control settings	admin Administrator		-	-	Never notify me when: • Programs try to install software or make changes to my computer • I make changes to Windows settings • I make changes to Windows settings • Not recommended. Choose this only if you need to use programs that are not certified for Windows 7 because they do not support Use Account Control.
See also Parental Controls				Parental Controls		Sox Cancel

WIN7-1

WIN7-2

**Note:** If the ActiveX control is not downloaded successfully, please check if your browser's safety level or firewall setting is set too high. Please open IE browser  $\rightarrow$  [Menu Bar]Tools  $\rightarrow$  Internet options  $\rightarrow$  Security  $\rightarrow$  Internet  $\rightarrow$  Custom Level  $\rightarrow$  Enable the options (Refer to the Picture 6-1-1 and Picture 6-1-2).

If the web application runs for the first time, please wait for about one minute to finish downloading.

If you want to use the undated ActiveX control at a computer which you have already logged in before, please delete the original control and click [Start  $\rightarrow$  Run] and then input the command characters: "regsvr32/u HiDvrOcx.ocx". Press OK. When you log in at the next time, new ActiveX control will be automatically downloaded. Please wait.

Security Settings - Internet Zone		Security Settings - Internet Zone	
Settings	Reset	Settings	at does not use

Picture 6-1-1



## 6.2 Web Application Manager Login

After ActiveX controls installation, please input user name and password, select Main Stream or Sub Stream (In general, select main stream for intranet and sub stream for outer net), and input web port number and select language in the interface (See picture 6-2). There is an option for opening all channel preview, select it to open all live pictures. Press Login to log in client and remotely visit DVR. The default password is blank and administer is authorized to modify the password. Set password as per introductions of user management in system setting.

	User login	
User Name	admin	
Password		
Client Port	14788	
Bitrate	Sub stream	
Language	English	
Remember Pwd	Open All Channels Preview	
Login	Reset	

Picture 6-2

After successfully log in, it will enter the real-time monitoring interface and connect video automatically, as shown in Picture 6-2.

## 6.3 Live Interface

Log in and enter into the live interface, as shown in Picture 6-3.

Live		Playback	Remote Setting	Local Setti	ngs	Logout			
СН04 🕨 📩	6 15 15 15 15 15	0401 0407 0413 0413	0402 0400 0414	0403 0409 0415	OHO4 OHI3 OHI5	0405 0411 0411 0411 0411	CH05		200M + FOCUS +
CH09 > K업 CH10 > K업 CH11 > K업 CH12 > K업	10 10 10 10	P 043	P CH04	Poss		P 0407		1000	IRIS     +       +     -       +     -       +     -       -     -       156     87
CH13 > 8년 CH14 > 8년 CH15 > 8년 CH16 > 8년	et et	No Video No Video	No Video	No Video	No Video No Video	No Video No Video	No Video	•	
IP CH01 🕨 1년3 IP CH02 🕨 1년3 IP CH03 🕨 1년3	10 v				₩₩25,36	<b>≢</b> 0) Q,			efault 🦽

Picture 6-3

### 6.3.1 Menu Bar

Menu Bar: Live, Replay, Configuration, Local Setting and Logout.

#### 1. Live Display

Log in the Web Application Manager, system will be defaulted to enter into <Live> interface shown as Picture 6-3. You can click [Play] button to Open/close live images, on-spot record, capture, and many live display modes.

Buttons on a single live interface:



Volume switch

Record switch: the remote record switch of client. Record will be automatically saved to a specified position on PC after the function is enabled.

Snapshot: Capture the selected live image and save it to a specified position on PC. The image is saved as \*.bmp format.



: Open or close the images on Live window.

Or **click the right key of mouse on each <Live> window** to pop up channel operation menu as shown in Picture 6-4

Show bit rate Picture 6-4

Show bit rate: Tick Show Bit rate to show IPC bit rate in current window.



Switch display mode in channel window



Open all the Live channels.



Close all the Live channels



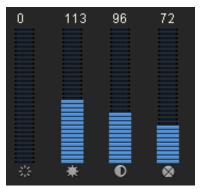
Display previous group of channels



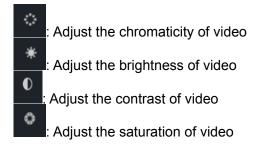
Display next group of channels

Click to maximize the current window to full screen. Right click to popup menu option and select Exit Full Screen.

#### 2. Video Control



Picture 6-5



## 6.3.2 Playback

Playback to enter into Playback interface to remotely view the records in DVR Click

Playback Remote Setting Local Settings Live Logout 12 2015 hade Winde ~ Type All CH01 IP CH05 ~ CH02 IP CH06 Playback Window03 Playback Wind 200:00:00 00:00:00 CH03 CH04 IP CH08 IP CH09 CH06 IP CH10 CH07 IP CH11 IP CH14 IP CH15 IP CH18 CH15 IP CH19 CH16 IP CH20 a

HDD, as shown in Picture 6-6.

Picture 6-6

It supports 1 to 4 channel record playback.

#### 1. Record Search

#### Record playback procedure

Firstly, select the date you want to check and tick 1 to 4 channels. Any record files in current channel at current date will be displayed in the status bar of the interface. (See Picture 6-7)



Picture 6-7

Secondly, select record type (Normal record, Alarm record and All) and channels, and then click

"Search", and time axis panel will display specific time quantum, as shown in Picture 6-8. On the time axis, red part stands for alarm record, yellow stands for normal record and original part stands for no record during this period.



Picture 6-8

Before playback, choose to enable playback 4 channels synchronously. If you tick-select "Synchronous playback", that means the selected channel will playback synchronously; otherwise, you could separately control the channels playback.

Thirdly, start playback

Click click click click to start record playback. When mouse curse is moving on the time axis, the time point of current position will be displayed on the time axis screen. Click to locate the record. Click the

icon or to zoom in/out the time bar display ratio, as shown in Picture 6-8.

#### 2. Playback Control

Playback control bar, as shown in picture 6-9.

Detailed brief description is shown as below list

Key	Description	Кеу	Description
	Play		Enable the volume switch
=	Pause		Volume adjustment bar
	Stop	1/8x 1/4x 1/2x 1 2x 4x 8x	Slow playing 1/2,1/4, 1/8, Fast playing 1/2/4/8
	By frame	$\boxtimes$	Stop playing all the files
Ê	Record Clip		Single channel mode
C	Snap		Quad mode
<b>±</b>	Download	Ш	Full Screen
	Open all the playback channels		Stop playing all the playback



#### **Record file clip**

After opening playback, click icon to clip the selected file; and click again to stop the clip function. Then playback clip is successfully done. Record clip file will be saved as \*.264 format.

#### **Snapshot function**

Move the mouse curse to the channel you want to capture, and click [

live images remotely. After capturing the images successfully, a path prompt box will be popped up, as shown in Picture 6-10.

Path to Save ScreenShots	×
D:\\Device\\Capture\\Record\\2015 \\221.4.221.197\\CH1\\221.4.221.197 20151216-103246.bmp	
Folder Preview	

Picture 6-10

The captured file will be saved as .bmp format.

#### **Record file download**

Click download icon "

search conditions of channels, as shown in picture 6-11.

	Index	Start time	End time	State	F
	1	2014-07-09 10:59:55	2014-07-09 11:01:05	Not download	1
	2	2014-07-09 11:02:02	2014-07-09 11:17:40	Not download	2
	3	2014-07-09 11:17:40	2014-07-09 11:25:16	Not download	1
	4	2014-07-09 11:26:18	2014-07-09 11:30:38	Not download	6
	5	2014-07-09 11:31:40	2014-07-09 11:32:36	Not download	1
<					>



Tick-select the record file you want to download and click [Start download] .System will download the record file in sequence and save to local PC. The downloading file will be displayed in percentage form. After downloading finishes, "Complete" will be displayed on the status bar.

### 6.3.3 Remote Setting

Click Remote Setting to enter into the interface shown as Picture 6-12, including Display, Record,

Network, Alarm, Device, System and Advance.

Live	Playback	Rei	note Setting	Local Se	ttings	Logo
Display	Analog	Channels	Refresh	Save		
Analog Channels	Channel	Channel Nam	e State			
, maiog enamicio	СН1	CH1	Disable			~
IP Camera	CH2	CH2	Disable			
Live	СНЗ	СНЗ	Disable			
	СН4	CH4	Disable			
Image Control	СН5	CH5	Disable			
Privacy Zone	СН6	CH6	Disable			
0	СН7	CH7	Disable			
Record	СН8	CH8	Disable			~
Capture	<					>
<b></b>	Analog Ch	nannels CH	CH2	CH3	CH4	
Network		CH	5 <b>□</b> CH6	CH7	CH8	
			CH10	CH11	CH12	
Alarm		CH.	I3 ■CH14	CH15	CH16	
Tevice						
System						
Advanced						

Picture 6-12

#### 1. Display

1) Analog Channels: Analog channel setting

14	Display	Analog	Channel	e	Refresh	Save		
-		Channel	Channel N		State	oure		
,	Analog Channels	СН1	CH1		Disable			^
i	P Camera	CH2	CH2		Disable			
	live	СНЗ	СНЗ		Disable			
		CH4	CH4		Disable			
ļ	mage Control	CH5	CH5		Disable			
F	Privacy Zone	CH6	CH6		Disable			
Record	Record	CH7	CH7		Disable			
82	Record	CH8	CH8		Disable			<u> </u>
	Capture	<						>
-194		Analog Cl	hannels 🔲	CH1	CH2	CH3	CH4	
i de	Network			CH5	CH6	CH7	CH8	
-				CH9	CH10	CH11	CH12	
8	Alarm			CH13	CH14	CH15	CH16	
	Device							
	System							

Picture 6-13

#### 2) IP Channels: Digital (IP) channel setting

1	Live	Play	back			Remote	Setting	Local Se	ttings	L	ogout
	Display	Ca	mera	Set							
			Delete	¢	Quick	Add	Refresh	Manage Protoc	col		
	Analog Channels		Channel	10		State	IP Adderss	Subnet Mask	Port	Manufacturer	Device '
	IP Camera		IP CH1	前	1	03	192.168.2.15	255.255.255.0	9968		CH293H
			IP CH2	ŵ.	1	12	192.168.2.9	255.255.255.0	9968		IP CAM
	Live		IP CH3	亩	1	12	192.168.2.14	255.255.255.0	9968	j.	CH293H
			IP CH4	童	1		192.168.2.191	255.255.255.0	9968		IP CAM
	Image Control		IP CH5	亩	1	13	192.168.2.195	255.255.255.0	9968		IP CAM
			IP CH6	Ť.	1	12	192.168.2.13	255.255.255.0	9968	2	IP CAM
	Privacy Zone		IP CH7	莆	1	12	192.168.2.196	255.255.255.0	9968		IP CAN
~			IP CH8	÷.	1		192.168.2.10	255.255.255.0	9968		IP CAN
<b>9</b> 0	Record		IP CH9	0							
			IP CH10	•							
	Capture		IP CH11	0					1		
- 491			IP CH12	0					[]		
-			IP CH13	0							
	Network		IP CH14	0							
-			IP CH15	0							
	AJarm		IP CH16	0							· ,
4	Device										
-	System										
-	Advanced										

Picture 6-14

#### 3) Live:

Live	Playback	Remote Setting Local Sett	ings	Logout
Display	Live	Refresh Save		
Analog Channels	Channel	(IP CH9		
Analog Chalinets	Show Name	Enable		
IP Camera	Show Time	Enable		
Live	Channel Name	Camera		
	Record Time	Enable		
Image Control	Covert	Disable		
Privacy Zone	Date Format	(YY-MM-DD		
	Time Format	(12Hour		
Record	Refresh Rate	(60Hz	✓	
Capture	1 Autora	<b>Salauzz (5. Ilud 1991)9:18 m</b>		
Network				
Jarm	No. of Concession, No.		- M	
Device				
System				
Advanced	backet to			

Picture 6-14-1

Channel: Select analog channel or digital channel.

**Channel Name:** Define a camera name for the camera.

Show Name: Enable or Disable display camera name.

Record Time: When enable, the time will be recorded on your video.

Date Format: Set IPC date format.

**Time Format:** Set IPC time format.

Refresh Rate: Set IPC refresh rate.

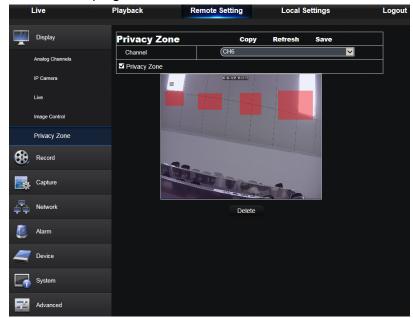
OSD Position: Set IPC date and time display position.

**Color:** Set channel color.

**Covert:** Enable or Disable video covert.

Show Time: Enable or Disable time display.

4) Privacy Zone: Each channel can set 4 privacy zones, as shown in Picture 6-14. The relevant parameters should be consistent with DVR local setting. Select zones to be deleted and click "Delete" and click "Save" at up-right corner.



Picture 6-14-2

#### 2. Record

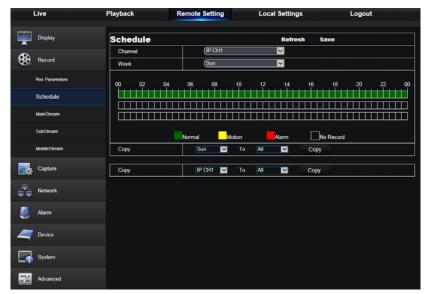
- Click <Record> option to unfold its sub-options: Record parameter and Schedule.
- 1) Record Parameters. The parameters should be consistent with DVR local setting, as shown in Picture 6-15.

Live	Playback Rer	note Setting	Local S	ettings	Logout
Display	<b>Rec Parameters</b>	Сору	Refresh	Save	
-	Channel	IP CH1			
Record	Record	Enable			
Rec Parameters	Stream Mode	MainStream			
Schedule	PreRecord	Enable			
MainStream					
SubStream					
MobileStream					
Capture					
Network					
🧾 Alarm					
Cevice					
System					
Advanced					

Picture 6-15

2) Record Schedule. The parameters should be consistent with DVR local setting, as shown in

Picture 6-16.



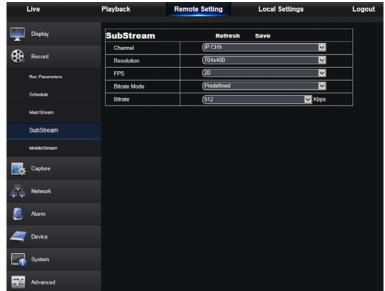
Picture 6-16

Green stands for Normal record; Yellow stands for Motion detection; Red stands for I/O trigger record. 3) Mainstream: User may set Mainstream, as shown in Picture 6-17. The relevant parameters should be consistent with DVR local setting.

	Live	Playback	Remote Setting	Local Settings	Logout
Ţ	Display	MainStream	Refresh	Save	
		Channel	(IP CH9	✓	
	Record	Resolution	(1920x1080	×	
	Rec Parameters	FPS	(30	~	
		Bitrate Mode	Predefined	✓	]
	Schedule	Bitrate	(3072	🗸 Kbps	
	MainStream				
	SubStream				
	MobileStream				
	Capture				
÷.	Network				
	Alarm				
4	Device				
	System				
	Advanced				

Picture 6-17

#### 2) Substream:



Picture 6-17-1

- > Channel: Select analog channel or digital channel.
- > **Resolution:** Select recording resolution.
- **FPS:** Select recording frame rate.
- **Bitrate Mode:** Select default or custom bit rate.
- **Bitrate:** Select recording bit rate.
- 3) Mobilestream:

Live	Playback	Remote Setting	Local Settings	Logou
Display	MobileStream	Refresh	Save	
<b>A</b>	Channel	(IP CH9	✓	
Record	🗹 Enable			
Rec Parameters	Resolution	(320x240	×	
	FPS	(10	✓	
Schedule	Bitrate Mode	Predefined	<b>⊻</b>	
MainStream	Bitrate	(256	🔽 Kbps	
MobileStream				
Network				
🧾 Alarm				
Device				
System				
Advanced				

Picture 6-17-2

- > Channel: Select analog channel or digital channel.
- > **Resolution:** Select recording resolution.
- **FPS:** Select recording frame rate.
- > Bitrate Mode: Select default or custom bit rate.
- **Bitrate:** Select recording bit rate.

#### 4) Capture:

Live	Playback	Remote Setting	Local S	Settings	Logout
Display	Capture	Сору	Refresh	Save	
	Channel	(IP CH1		~	
Record	Auto Capture	Enable		✓	
Carture	Stream Mode	Main stream		✓	
Capture	Normal Interval	55		✓	
Capture	Alarm Interval	55		×	
Capture Schedule	Manual Capture	Disable		~	
Network					
Jarm					
Device					
System					
Advanced					

Picture 6-17-3

- > Channel: Select analog channel or digital channel.
- > Auto Capture: Enable/Disable auto capture
- Stream Mode: Select main stream or sub stream of capture.
- > Alarm Interval: Select interval time of alarm capture
- Manual Capture: Enable/Disable manual capture
- 5) Capture Schedule:



Picture 6-17-4

- > Channel: Select analog channel or digital channel
- > Normal: Conventional capture setting
- > Motion: Motion detect capture setting
- > Alarm: Alarm capture setting

### 6.3.4 Network

Unfold <Network> to show its sub-options: Network, Email, and DDNS configuration, as shown in Picture 6-18.

#### 1. LAN setting

DVR supports Static/DHCP/PPPOE modes. System default network type is <Static>. User can set parameters as required. After the network parameters are modified successfully, DVR will automatically restart to make the setting effective.

Live	Playback	Remote Setting	Local Settings	Logout
Display	Network	Refresh	Save	
•	Туре	(DHCP	<b>⊻</b>	
Record	Client Port	(39999		
Capture	HTTP Port	38888		
Cature .	IP Address	192.168.2.104		
Network	Subnet Mask	255.255.255.0		
•	Gateway	192.168.2.1		
Network	DNS 1	221.5.88.88		
Email	DNS 2	8.8.8.8		
DDNS	UPNP	Enable	×	
rtsp FTP				
🧾 Alarm				
Tevice				
System				
Advanced				

Picture 6-18

#### 2. Email

Email: Set DVR alarm Email configuration parameters, including Email address, SSL, Email Enable, Interval and Email Schedule, etc. Detailed parameters should be consistent with DVR local setting. Refer to Picture 6-20.

Live	Playback	Remote Setting	Local Setting	Logout
🛞 Displa	y Ema	il Ref	fresh Save	
Record	d Ema		Schedul	•
Setwo	rk	TP Port 25 TP Server		
Network				
SubStree	am Sen	der Password		
Email	Rec	eiver 3Min		~
DDNS				
RTSP	Test	Email		
FTP				
🕵 Alarm				
Device				
System System	m			
Advan	ced			

Picture 6-20

#### 4. DDNS

DDNS: After user applies for DDNS service, you could enable <DDNS> function under any one network type mode (Static, DHCP and PPPoE). And you may remotely visit the NVR through domain name (http://domain name: Web port No.). When visiting DVR by using DDNS, user should make sure port and current IP can be normally connected in public network. Details settings, including server address, host, user, and password, should be consistent with NVR local setting. Please refer to Picture 6-21.

L	ive	Playback	Remote Setting	Local Setting	Logout
-	Display	DDNS	Refresi	h Save	
	Record	DDNS Server IP	Enable NO-IP		<ul> <li>✓</li> </ul>
۲	Network	Host Name User Name			
	Network	Password			
	SubStream				
	Email	DDNS Test			
	DDNS				
	RTSP				
	FTP				
<u>99</u>	Alarm				
	Device				
-	System				
	Advanced				

#### 5. RTSP

Picture 6-21

Refer to Picture 6-22. The relevant parameters should be consistent with DVR local setting.

Live	Playback	Remote Setting	Local Setting	Logout
Display	RTSP	Refres	h Save	
Record	RTSPEnable RTSP Port	Enable 554		
Network	Verify User Name	Enable		✓
Network	Password	admin		
SubStream				
Email		nstruction : rtsp://IP:Port	/live/chA B C	
DDNS		A : 00(ch1), 01(ch2		
RTSP		B : 00(main stream	n), 01(sub stream)	
FTP		C : 00(mix stream)	, 01(video), 02(audio)	
Alarm				
Device				
System				
Advanced				

#### 6. FTP

Refer to Picture 6-23. The relevant parameters should be consistent with DVR local setting.

Picture 6-22

Live	Playback	Remote Setting	Local Setting	Logout
Display	FTP	Refres	h Save	
Record	FTP Enable Server IP	Enable		<b>~</b>
Network	Mobile Port User Name	21		
Network	Password			
SubStream	Max File Length	10		
Email	DirName			
DDNS	FTP Test			
7707				

Picture 6-23

#### 6.3.5 Alarm

Alarm setting includes Motion Detection and I/O Alarm Parameters.

#### 1. Motion Detection

Configure Sensitivity, Alarm out, Alarm Record and Alarm Capture, etc. Detailed setting should be consistent with DVR local setting (See Picture 6-24).



Picture 6-24

#### 2. I/O Alarm

Set parameters for I/O Alarm, Alarm Out, Alarm Record, Send Email, etc. Detailed setting should be consistent with DVR local setting (See Picture 6-25).

Live	Playback	Remote Setting Lo	cal Settings Logout
Display	Alarm	Copy Refre	esh Save
•	Alarm In	(IO-1	
Record	Alarm Type	Normally-Open	
Capture	Buzzer	OFF	
Capture	Latch Time	(105	
Network	Show Message 🗹 Se	nd Email 🗖 Full Screen	
**	Alarm Out		
🦲 Alarm	Enable Record		
	Post Recording	(305	
Motion	Record Channel	■ All	
Alarm	Analog Channels 1	2 3 4 5 6 7 8 9 9 1	0 11 12 13 14 15 16
<b>—</b> n :	IP Channels 1	2 3 4 5 6 7 8 9 1	0 11 12 13 14 15 16
Device	17	18 19 20 21 22 23 24	
System			
Advanced			

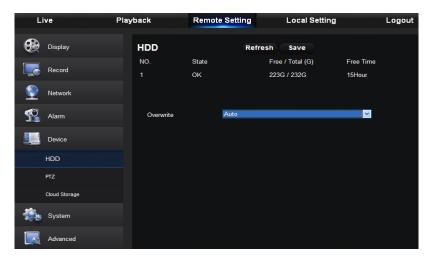
Picture 6-25

### 6.3.6 Device

Click <Device> to unfold its sub-options: HDD and PTZ

#### 1. HDD

User may check HDD status of DVR and overwritten time. Detail setting should be consistent with DVR local setting. Please refer to Picture 6-26.



Picture 6-26

#### 2. PTZ

User may set the relevant parameters of PTZ. Detail setting should be consistent with DVR local setting. Please refer to Picture 6-27.

Live	Playback	Remote Setting	Local Set	ting	Logout
Display	PTZ	Сору	Refresh	Save	
Record	Channel Protocol	CH1 Pelco-D		× *	
Network	Baudrate Data Bit	9600 8		×	
Alarm	Stop Bit	1		~	
Device	Parity Cruise	None Disable		×	
HDD	Address	1		×	
PTZ					
Cloud Storage					
System					
Advanced					

Picture 6-27

#### 3. Cloud Storage

User may set the relevant parameters of Cloud Storage. Detail setting should be consistent with DVR local setting. Please refer to Picture 6-28-1 and 6-28-2.

Live	Playback Remote Setting	Local Settings Logout
Display	Cloud Storage Refresh	Save
Record	Cloud Storage Enable Cloud Type (Dropbox	⊻
Capture	Analog Channels IP Channels	
Network		2 13 14 15 16
🧾 Alarm	17 18 19 20 21 22 23 24	
Jevice	Time Trigger (1Min Motion Detection Disable	
HDD	Device Name Device	
PTZ	Activate Cloud Advanced E-mail Setup	
Cloud Storage	Upgrade Cloud Storage	
System		
Advanced		

Picture 6-28-1

L	ive P	layback	Remote Setting	Local Setting	Logou	it
<b>X</b>	Display	Email	Refresh	Save Exit		
		Email	Disable		<b>~</b>	
	Record	SSL	Disable		~	
٢	Network	SMTP Port SMTP Server	25			
<u>9</u>	Alarm	Sender				
4	Device	Sender Passwo Receiver	brd			
	HDD					
	PTZ					
	Cloud Storage					

Picture 6-28-2

### 6.3.7 System

Click <System> option to unfold its sub-options: General, Users and Information.

#### 1. General

User may check DVR language and video system and set system time, date/time format, menu display time, DST and NTP parameters shown as Picture 6-29. Detailed setting should be consistent with DVR local setting.



Picture 6-29

#### 2. Users

User may configure user name and password and detailed setting should be consistent with DVR local setting. Please refer to Picture 6-30.

Live	Playback		Remo	Jie o	etui	.9			LUC	an o	lettir	-ga					og
Display	Users						Re	fres	h	S	ave						
	NO. Userna	ame	Pass	word		En	able			Use	mam			130	or1		
Record	1 admin		Disat	le		En	able							-	<u> </u>	-	
_	2 user1		Disat				able			Nev	v Pas	sword	<b>3</b> :	-			
Capture	3 user2		Disat	de		Dis	able			Con	ifirm:						
	4 user3		Disat	de		Dis	able								nable		7
Network	5 user4		Disat	de		Dis	able			Acti	ve:				abie		-
	6 user5		Disat	ble		Dis	able			Pas	sword	d:		Dis	sable		
Alarm	7 user6		Disat	sle		Dis	able										
General	Backup	1	2	3	4	5	6 6	7	8	9	10 10	11	12 12	13 13	14 14	15 15	1
General		17	18	19	20	21	22	23	24			_	_				
Users	Live		_	_			6	7	8	9	10	11	12	13	14	15	1
00010	- Life	1	2	3	- 4	5	0									_	Γ.
Info		1	2	3	4	5	6	7	8	9		11	12	13	14	15	1
		1	2	<u> </u>	4 4 20	5	6	-	8	_		11	12	13	14	15	
Info Channel Info	Pisyback		2	<u> </u>	4 20 4	5	6	7	8	_	10	_	_	13 13			_
into		17	2	<u> </u>	4 20 4 4	5	6 22	7	8 24	9	10	11	_	13	14	15	1
Info Channel Info		1	2 18 2 2 2 2	<u> </u>	4 20 4 4 20	5	6 22 6 6	7	8 24 8 8	9	10	11	12	13	14	15	1
Info Channel Info Record Info		1 1 1	2 18 2 2 2 2	19 3 3	4	5 21 5 5	6 22 6 6	7 23 7 7	8 24 8 8	9	10	11	12	13 13	14	15	1

Picture 6-30

#### 3. Information

User may search device name, device number, device type, MAC address, software version, IE version and hardware version of DVR shown as Picture 6-31.

Live	Playback	Remote Setting	Local Settings	Logout
Display	Info	Refresh	1	
	Device ID	000000		
Record	Device Name	1080P-HY16N		
Capture	Device Type	HY-DVR		
Capture	Hardware Version	DM-295		
Network	Software Version	V7.1.0-201512	04	
<b>.</b>	IE Client Version	V2.0.0.243		
Alarm	IP Address	(192.168.002.10	34	
-	MAC Address	00-11-22-6E-D	4-2D	
and Device	HDD Capacity	613G		
	Video Format	NTSC		
System	Client Port	(39999		
General	HTTP Port	38888		
	P2P ID	RSVT1507000	045062	
Users				
Info		i i i c	eessiin 👘 👘	
Channel Info				
Record Info		722	難る感	
Advanced			語教	
		E 93	P#1070	

Picture 6-31

#### 4. Channel Info

<u> </u>	Display	Channe	el Info				
•		Channel	Alias	State	Mainstream	Substream	
82	Record	IP CH3	IP CH3	On-line	1920 X 1080,30Fp8,1024K0p8 1920 X 1080,30Fp8,3072Kbps	704 X 480,30Fp5,1024Kbp5 320 X 240.30Fp5,256Kbp5	320 X
		IP CH4	IP CH5	On-line	1920 x 1080,25Fps,3072Kbps	352 x 288,3Fps,64Kbps	320 x
	Capture	IP CH6	IP CH6	Online		704 x 480,20Fps,256Kbps	320 x
aw.					1920 x 1080,30Fps,3072Kbps 1920 x 1080,30Fps,3072Kbps		320 x
		IP CH7	IP CH7	On-line		704 x 480,30Fps,256Kbps	
÷	Network	IP CH8	IP CH8	On-line	1920 x 1080,30Fps,4096Kbps	704 x 480,30Fps,1024Kbps	320 x
		IP CH9	IP CH9	On-line	1920 x 1080,30Fps,3072Kbps	704 x 480,20Fps,512Kbps	320 x
0	Alarm	IP CH10	IP CH10	On-line	1920 x 1080,30Fps,4096Kbps	704 x 480,20Fps,256Kbps	320 x
-		IP CH11	IP CH11	On-line	1920 x 1080,25Fps,3072Kbps	640 x 480,20Fps,128Kbps	320 1
-		IP CH12	IP CH12	On-line	1920 x 1080,30Fps,4096Kbps	704 x 480,30Fps,1024Kbps	320 ×
-	Device	IP CH13	IP CH13	On-line	1280 x 960,30Fps,3072Kbps	640 x 480,25Fps,512Kbps	320 x
		IP CH14	IP CH14	Online	1920 x 1000,30Fps,3072Kbps	640 x 480,25Fps,1024Kbps	320 x
	System	IP CH15	IP CH15	On-line	1280 x 960,30Fps,4096Kbps	640 x 480,25Fps,1024Kbps	320 ×
v		IP CH16	IP CH16	On-line	1920 x 1080,25Fps,4096Kbps	640 x 480,25Fps,256Kbps	320 x
	General	IP CH17	IP CH17	On-line	1920 x 1080,25Fps,4096Kbps	352 x 288,3Fps,64Kbps	320 >
		IP CH18	IP CH18	On-line	1920 x 1080,30Fps,3072Kbps	352 x 240,3Fps,64Kbps	320 x
		<		•	·		>



Displays all channels camera relevant information

#### 5. Channel Info

Live	Playback	Remo	te Setting	Local Settings		Logout	
Display	Record In	ıfo					
	Channel						
Record	IP CH1	Enable	Video Stream	30Fps	3072	1920 x 1080	
	IP CH2	Enable	Video Stream	30Fps	3072	1920 x 1080	
Capture	IP CH3	Enable	Video Stream	30Fps	1024	1920 x 1080	
Capitale .	IP CH4	Enable	Video Stream	30Fps		1920 x 1080	
	IP CH5	Enable	Video Stream	25Fps	3072	1920 x 1080	
Network	IP CH6	Enable	Video Stream	30Fps	3072	1920 x 1080	
	IP CH7	Enable	Video Stream	30Fps	3072	1920 x 1000	
Alarm	IP CH8	Enable	Video Stream	30Fps	4096	1920 x 1000	
	IP CH9	Enable	Mdeo Stream	30Eps	3072	1920 x 1090	
-	IP CH10	Enable	Video Stream	30Fps	4096	1920 x 1080	
evice	IP CH11	Enable	Video Stream	25Fps	3072	1920 × 1080	
	IP CH12	Enable	Video Stream	30Fps	4096	1920 x 1080	
System	IP CH13	Enable	Video Stream	30Fps	3072	1280 x 960	
returi	IP CH14	Enable	Compound Stream	30Fps	3072	1920 x 1080	
General	IP CH15	Enable	Video Stream	30Fps	4096	1280 x 960	
	IP CH16	Enable	Compound Stream	25Fps	4096	1920 x 1080	
Users	- <b></b>					<u> </u>	



Displays all channels camera relevant information

## 6.3.8 Advanced

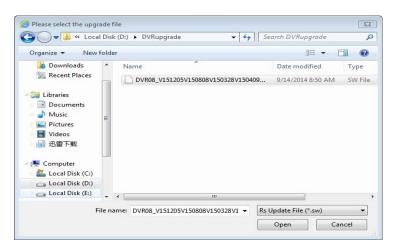
Click Advance to unfold its sub-options: Firmware Update, Load default, Events and Maintain. **1. Firmware Update** 

User may remotely update DVR system, as shown in Picture 6-32.



Picture 6-32

Updating procedure: Firstly, select the update file path. The file format is .sw. Please refer to Picture 6-33.



Picture 6-33

Secondly, click "Start" to start updating. The updating progress can be seen on the screen, **2. Load Default** 

User may remotely restore default parameters of DVR, with same setting method as that of DVR, shown as Picture 6-34.



Picture 6-34

#### 3. Events

User may configure Event Type, Buzzer, Send Email, Show Message and other parameters shown as Picture 6-35. Detailed setting should be consistent with DVR local setting.

Live	Playback	Remote Setting	Local Setting	Logout
Display	Events	Refrest	h Save	
Record	Event Type	Disk No Space		~
Network	Buzzer	10s je 🗹 Send Email		<u>~</u>
🕵 Alarm	Alarm Out			
Device	Latch Time	10s		¥
System				
Advanced				
Firmware Update				
Load Default				
Maintain				
Events				

Picture 6-35

#### 4. Maintain

Allow you remotely set auto maintain time for DVR shown as Picture 6-36. Detailed setting should be consistent with DVR local setting.



Picture 6-36

### 6.3.9 Local Setting

User may set Record Path (save Live record and Playback clip file), Download Path for remote file, Snapshot Path for captured pictures, Interval for switching record files (Packaging time), and File type (H264 and AVI) shown as Picture 6-40.

Live	Playback	Remote Setting	Local Settings	Logout
	Local Settings			_
	Record Path	D:\Device\Record	•••	
	Download Path	D:\Device\DownLoad	•••	
	Snapshot Path	D:\Device\Capture	•••	
	File type	avi 🗸 Interval 10	Min	
			Save	

Picture 6-40

### 6.3.10 Logout

Click Logout to log out and return to the login interface.

# **Chapter 7 Appendix**

## 7.1 Troubleshooting

- Q: What can I do if the system does not detect the HDD?
   A: Check if the power supply system is properly connected and data cord and power cables are securely connected, and if something wrong with the HDD interface. Or you may check if your HDD is supported by referring to the specifications or descriptions.
- Q: I have changed the password but forget the new password, how can I access the system? A: If you forget system password, please consult with our technical personnel. We strongly suggest user to set password easy to be remembered and relatively safe. If you have safety requirement, please do not set very simply password, such as 000000.
- Q: We see abnormal video signal or even no video signal by connecting the DVR and camera together. Power supply for both devices is OK. What is wrong?
   A: Check network cable at DVR side to see if the cable is firmly connected and if it is worn out and needs to be replaced, or to check if NTSC or PAL is selected consistently.
- 4. Q: How to prevent DVR from being influenced by heat?A: The DVR needs to dissipate heat while it is running. Please place the DVR in a place with good air circulation and away from heat sources to ensure stability and life of the DVR.
- 5. Q: The remote controller of DVR doesn't work while the monitor screen is OK and panel keys are functional. Why?

A: Operate again by aiming the remote controller at the IR receiver on front panel. If it still doesn't work, please check if the batteries in the remote controller are dying. If not, check if the remote controller is broken.

- Q: I want to take out HDD from my PC and install it in DVR. Can it work?
   A: All HDDs supported by the system can be used. But remember, once DVR runs, the data on your HDD will be lost.
- 7. Q: Can I playback while recording?A: Yes. The system supports the function of playing while recording.
- Q: Can I clear some records on HDD of DVR?
   A: In consideration of the file security, you may not clear part of records. If you want to remove all the records, you can format HDD.
- Q: Why can't I log in DVR client?
   A: Please check if the network connection settings are correct and RJ-45 port is with good contact. And check if your account and password are correctly input.
- 10. Q: Why can't I find any records during playback?A: Please check if the data line connection for HDD is OK and system time is properly adjusted. Try a few times and restart. If it still doesn't work, check if the HDD is broken.
- 11. Q: Why DVR cannot control PTZ?
  - A: Please check if:
    - 1. PTZ in the front side is malfunctioned.
    - 2. Setting, connection and installation of PTZ decoder are not correct.
    - 3. PTZ setting of DVR is not correct.
    - 4. Protocol of PTZ decoder does not match that of DVR.
    - 5. Address of PTZ decoder does not match that of DVR.
    - If many decoders are connected, the farthest side of AB line of PTZ decoder should be added 120Ω resistance to realize reflection suppression and impedance matching. Otherwise, PTZ control will be unstable.

- 12. Q: Why doesn't dynamic detection work?A: Please check if the motion detection time and motion detection regional setting are correct and if the sensitivity is set too low.
- 13. Q: Why doesn't alarm work?A: Please check if the alarm setting, alarm connection and alarm input signals are correct.
- Q: Why does buzzer keep alarming?
   A: Please check the alarm setting, check if motion detection function is enabled and object motion is detected all the time and if I/O alarm is set as Always Off. Besides, refer to corresponding HDD alarm setting.
- 15. Q: Why can't I stop recording by pressing "STOP" button or click "Stop Recording" in context menu?

A: Pressing Stop or Stop Recording can only stop manual record. If you want to stop Scheduled recording in certain time quantum, please change the setting to No Record. To stop Startup recording, please change record mode to scheduled recording or manual recording. Then you may stop recording by the prescribed methods. And another way of stopping recording is to set channel as off status in record setting.

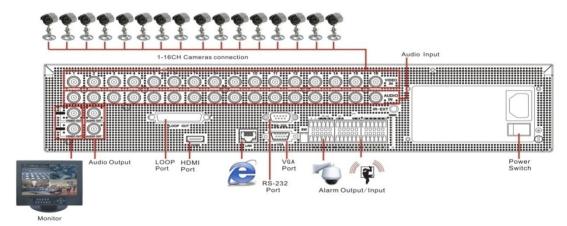
## 7.2 Usage Maintenance

- 1. To shut down DVR, please firstly shut down the system and then turn off the power. Do not turn off the power directly or HDD data will be lost or damaged.
- 2. Please keep DVR away from heat sources or places.
- 3. Clean the internal dust regularly. Make sure the good ventilation of DVR so as to ensure the good heat dissipation.
- 4. Please do not hot plugging audio and video cables, or cables connected to ports like RS-232 or RS-485. Otherwise the ports will be damaged.
- 5. Please check the HDD cable and data cable regularly to see if they are ageing.
- 6. Please prevent the audio and video signals of DVR from being intervened by other electronic devices, and prevent the HDD from being damaged by static electricity and induced voltage.

If the network cable is frequently plugged, it is suggested to replace connecting line regularly, or the input signal may be unstable.

7. This is A class product. it maybe bring wireless interference in life. Under this situation, it need user to make measures.

## 7.3 System Connection Diagram



## 7.4 Accessories (Goods in kind prevail)



□ Remote Controller





User Manual



USB mouse

□ Power Adapter



□ Warranty Card



(Good in kind prevail)

## Warranty Card

Dear User:

Thanks for purchasing our product, in order to ofter you better after sails service. Please fulfill the Warranty Card and Product Registration Card carefully, then send the completed card to franchiser or our Exclusive Sales Agent.

Product Description:		
Product Model No.:		
Date of Purchase:		
Invoice(P/O) No.:		
User Name:		
Telephone:	FAX:	
	E-Mail:	
Franchiser or exclusive sales agent:		
Telenhone	-	

Telephone:

Record	Repair Date	Repair Item	Person
anty			
Warra			
3			

Remark: 1)Presentation of Warranty items, please refer to back.

2)The card will be valid after 15 days of purchase when the franchiser or Exclu -sive sales agent chop.

----- Cut along the dashed ------

## **Product Registration Card**

Product Description:		
Product model No.:		
Date of Purchase:		
Invoice(P/O) No.:		
User Name:		
Telephone:	FAX:	
Address:	E-Mail:	
Franchiser or exclusive sales agent:		
Telephone:		

## **Product Warranty Presentation** Warranty Period: Since the date of purchase. Exchange service after 3 months of purchase, repair service after 1 year of purchase. Warranty items: 1 Before you use the product, please read <User s Manual> carefully. 2 You can share the Warranty service after you buy our product and send the completed card to our franchiser or exclusive agent. 3 Based on the Warranty items ,you can share free charge repair service only when you show the card under right operation of the product. 4 Please reserve /keep the Warranty card carefully if you need us repair the product. 5 you are charged for repairing under below condition 1)Beyond the Warranty period 2) no detailed fulfill information with scratches. 3)wrong operation under high temperature/pressure,deep;strong electrimagnetic interference. 4)Do not follow the instruction manual or wrong operation 6 we will ignore product, under below condition. 1)Dismental repair by themselves. 2)Problem caused by software or virus. 7The card is only valid in China domain. . . . . . . . . . Cut along the dashed Your suggestion on our product is highly appreciated. We will keep tracing and developing to product high quality product for you. Thanks for your co-operation Suggestion Yours

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