

User's Manual



4-/8-/16-Channel H.265 Hybrid

Digital Video Recorder

- HDVR-435
- HDVR-835
- HDVR-1635



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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio technician for help.



FCC Caution

To assure continued compliance, for example, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste; they should be collected separately.





Revision

User's Manual of PLANET H.265 Hybrid Digital Video Recorder Model: HDVR-435/HDVR-835/HDVR-1635 Rev: 1.0 (June 2019) Part No. EM-HDVR-435_835_1635_v1.0



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Chapter 1. Product Introduction

1.1 Package Contents

The package should contain the following items:

- HDVR Unit x 1
- Screw Kit x 1
- Power Adapter x 1
- Quick Installation Guide x 1
- SATA Cable x 1
- SATA Power Cable x 1
- RS485 Connector x 1



- 1. If any of the above items are missing, please contact your dealer immediately.
- 2. Using the power supply that is not the one included in the HDVR packet will cause damage and void the warranty for this product.
- 3. SATA cable, SATA power cable and RS485 connector are included in the HDVR.





1.2 Overview

Efficient Solution for All Video Formats

PLANET HDVR-435, 835, and 1635 are H.265 Hybrid DVR recorders which are able to record video and data from traditional AHD (analog high definition), HD-CVI (high definition composite video interface), HD-TVI (high definition transport video interface) and Network IP security cameras. The advantage of a hybrid DVR recorder is that it lets you use currently installed analog security equipment along with newer network IP technology. This enables you to upgrade your surveillance system to IP equipment at your own pace, according to your budget. The HDVR-435/835/1635 4-/8-/16-channel embedded system is equipped with HDMI/VGA local display and features recording, live view, playback and backup functions, etc. With the easy-to-remember DDNS feature, the HDVR can be placed either in LAN or WAN for easy installation. Besides, designed for various surveillance applications via RS485 interface, the HDVR is capable of controlling most types of protocols. For the purpose of general monitoring, the HDVR-435/835/1635 offers app viewer, Web browser and CMS (central management software) for multi-platform remote access, thus making it an ideal solution for various applications, such as retail stores, communities, SMBs, supermarkets, restaurants and schools.

Bandwidth Saving

With H.265 compression technology, the HDVR-1635 offers over 30% more of recording capacity then systems employing H.264 compression. This advance gives users larger storage space for longer durations of video recording.

Hybrid Integration

The HDVR-435/835/1635 series allows each of its 4/8/16 channels to be connected to either an analog camera or an IP camera. If you already have analog cameras and want to add on a few IP cameras, the HDVR-435/835/1635 series is definitely your ideal choice. In addition, the HDVRs comply with ONVIF and are interoperable with any third-party IP cameras, thus omitting compatibility issue and allowing you to add more cameras.



High Resolution Local Display

The HDVR-435/835/1635 series provides HDMI and VGA video output interfaces for dual local displays, which can be connected to HDMI monitor or VGA monitor for live view monitoring with video output of maximum 1920 x 1080 resolutions. Due to local display, it can eliminate the need for a separate PC to view video from the unit. Besides, it also can be operated with the USB mouse to configure and monitor all the system easily.

Real-time Remote Monitoring

Video from the HDVR system can be accessed with Web browsers and mobile devices. With remote monitoring, you can view live and recorded video, allowing for easier monitoring of your video deployments, and the ability to react quickly to alarms and events.

Manage via Central Management System (CMS)

Not just for small-scale applications such as retail stores and SMBs, the HDVR system is expandable for multi-site management with the bundled CMS software. The CMS software is able to manage up to 256 channels of cameras simultaneously. With user-friendly graphic interface, users can control any cameras or HDVRs easily and make a quick response when event is triggered. With CMS support, users are able to make surveillance more efficient.

1.3 Features

- ➢ Hardware
 - Embedded, highly-reliable standalone HDVR
 - Supports 4-/8-/16-ch BNC connectors
 - Supports VGA/HDMI dual local display
 - Supports 3.5" SATA x 1 HDD
 - Supports RS485 for PTZ control

Video and Audio

- Supports H.265 and H.264 compressions
- Video resolution up to 1080p (analog mode) and 1080p (IP mode)
- Supports hybrid mode for combination of IP, traditional analog, TVI, CVI and AHD cameras
- 2-way audio support with enhanced audio quality



Video Recording and Backup

- Simultaneous recording and live video streams
- Manual or scheduled recording of 4/8/16 cameras simultaneously
- Video recycling function 24/7 for easy inquiry of suspicious events
- Exports recorded video file in H.26X or AVI format to USB device
- Instant Event Notification

Network Service

- Easy access with PLANET Dynamic DNS and built-in NTP Server
- Supports PPPoE, DHCP and manual settings
- Supports P2P cloud function for remote viewing
- Supports dropbox for recording channels

Easy Installation and Management

- ONVIF compliant for interoperability
- Supports multiple languages
- Automatically discovered by management software
- Web-based and management utility for easy configuration
- Up to 256 channels with the central management software
- Supports two USB2.0 ports for mouse control and backup
- Supports mobile phone remote viewer, Web UI and CMS

1.4 Product Specifications

Product	HDVR-435	HDVR-835	HDVR-1635
Hardware			
Ethernet	1 x RJ45, 10/100BASE	1 x RJ45, 10/100BASE-TX	
BNC Interface	4	8	16
USB Interface	2 x USB 2.0 for backup device and mouse		
Video Interface	VGA/HDMI/video out interface		
Audio Interface	4 x audio-in, 1 x audio-out		
Storage Device	1 x 3.5" SATA hard disk connector (max. 6TB)		



LED	Power		
Button	Menu, ESC, Direction and Enter		
Camera			
Max. Channels	4-channel cameras	8-channel cameras	16-channel cameras
Additional Camera	Manual/Smart Camera	Search	
Video			
Video Signal	AHD/TVI/CVI/CVBS/IP)	
Video System	PAL (625 lines, 50fps);	NTSC (525 lines, 60fps)	
Compression	H.265/H.264		
Resolution	IP camera: 1080p/960p/720p/D1 Analog camera: AHD-H (1080p)/AHD-NH (1080n)/AHD-M (720p)/D1		
Encode Capacity	4 x 1080p@15fps	8 x 1080p@15fps	16 x 1080p@15fps
Decode Capacity	4 x 1080p@15fps	8 x 1080p@15fps	16 x 1080p@15fps
Hybrid Mode	 Analog cameras: 4-ch 1080p Analog cameras & IP cameras: 2-ch 1080p & 2-ch 1080p IP cameras: 4-ch 1080p 	 Analog cameras: 8-ch 1080p Analog cameras & IP cameras: 4-ch 1080p & 4-ch 1080p IP cameras: 8-ch 1080p 	 Analog cameras: 16-ch 1080p Analog cameras & IP cameras: 12-ch 1080p & 4-ch 1080p, 8-ch1080p, 4-ch 1080p, 12-ch 1080p IP cameras: 16-ch 1080p
Motion Detection	Zones: 192 (16 x 12) d Sensitivity: multi-level s	letection zones sensitivity (only local chan	nels)
Audio			
Audio Type	2-way		
Audio Format	G.711A		



Live View	Live View		
Display Division	1, 4 1, 4, 8, 9 1, 4, 8, 9, 16		1, 4, 8, 9, 16
Snapshot	Video snapshot in JPE	G format	
Playback			
Record	Manual, Alarm, Motion	Detection, Schedule	
Local Playback	2-ch simultaneous playback; supports up to 4-channel playback (local input mode)	4-ch simultaneous playback; supports up to 8-channel playback (local input mode)	8-ch simultaneous playback; supports up to 16-channel playback (local input mode)
Play Method	Play, Pause, Stop, Slov Search by time, calend	w, Fast, Prev. Frame, Next lar, event, channel	Frame
Download	Backup file to specific I	ocal HDD partition	
Monitor			
Display Quality	1920 x 1080, 1440 x 900, 1280 x 1024, 1280 x 720, 1024 x 768		
Network and Configuration			
Network Service	TCP, UDP, HTTP, DHCP, DNS, DDNS, RTSP, NTP, UPnP, FTP, SMTP		
Security	Password protection		
Triggers and Ev	ent		
Event Type	Event Type System Events – • No Disk • Disk Error • Disk Full • Net Loss • IP Conflict Camera Events – Motion Detection, Video Blind, Video Loss, Alarm Input, Alarm Output		
Event Action	 Show Message Buzzer Send e-mail FTP Upload 		
Management			
Remote	2 users are recommended		





Sessions			
Privileges	Live View, Playback, System Configurations, Camera Configurations, Recording Configuration, Event Configuration, Maintenance		
User Interface	 Graphic local user interface (Operated by mouse) Web browser (IE) CMS utility 		
Log Type	All, System, Config, Sto	rage, Alarm Event, Week	Day, Account, Playback
Software Utility	Search utility, CMS, App	0	
Environment			
Power	DC 12V, 2A		
Consumption	15W (without HDD)		
Operating Temperature	-10~60 degrees C		
Storage Temperature	-10~60 degrees C		
Humidity	10~90% (non-condensing)		
Weight (g)	792	815	960
Dimensions (W x D x H)	253 x 242 x 40 mm		



Chapter 2. Hardware Interface

2.1 Physical Descriptions

Front Panel

	POWER	MENU	
H.265 Hybrid Digital Video Reco	rder	ESC	

LEDs	Status	Definitions
Power	Red	System on
Buttons	Status	Definitions
Menu	Setup	Press to enter main menu
ESC	Return	Press to return to previous page
Direction &	Control and	Press to select and enter
ОК	Enter	

HDVR-435 Rear Panel



Connector	Description
V1-V4	Composite video signal (CVBS) input interface
A1-A4	The input interface of the audio signal
A-OUT/V-OUT	The output interface of the audio/video signal
LAN	The network interface of RJ45
HDMI	The output interface of the HDMI video signal
VGA	The output interface of the VGA video signal
12V DC	12V 2A DC power
485+/485-	The interface of the alarm input, the alarm output and RS-485



HDVR-835 Rear Panel



Connector	Description
V1-V8	Composite video signal (CVBS) input interface
A1-A4	The input interface of the audio signal
A-OUT/V-OUT	The output interface of the audio/video signal
LAN	The network interface of RJ45
HDMI	The output interface of the HDMI video signal
VGA	The output interface of the VGA video signal
12V DC	12V 2A DC power
485+/485-	The interface of the alarm input, the alarm output and RS-485

HDVR-1635 Rear Panel



Connector	Description
V1-V16	Composite video signal (CVBS) input interface
A1-A4	The input interface of the audio signal
A-OUT	The output interface of the audio signal
LAN	The network interface of RJ45
HDMI	The output interface of the HDMI video signal
VGA	The output interface of the VGA video signal
12V DC	12V DC, 2A
485+/485-	The interface of the alarm input, the alarm output and RS-485



2.2 Hardware Installation

2.2.1 Installing Hard Disk

1. Remove the upper case.



2. Plug the HDD power cable and SATA cable into the slots of the PCBA board and the HDD, respectively, making sure the connections are well done.





3. Please align the screw holes on the HDD with those on the HDVR case and secure them with the given screws.



4. After the HDD is secured, it should look like the one in the pictures (front and back) below:







Chapter 3. Connecting to the HDVR

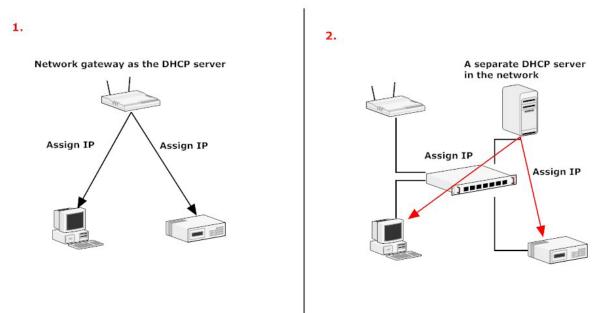
There are various ways you can connect to the HDVR and below are the suggested methods for different network setups:

The HDVR is placed in a network with a DHCP server: Connect to the HDVR by using "HDVR Search Tool" Utility.

The HDVR is placed in a network without DHCP server (or you are connecting to it directly): Access HDVR with its default IP (192.168.0.20).

3.1 Using Search Tool Utility

If the HDVR is placed in a corporate network or a local area network where a DHCP server is already presented, please install the "Search Tool" utility from the PLANET website.



To begin, execute the "Search Tool" utility.



Next, press the "Search" button to find the HDVR.

Sea	rch	h v	ResDefaultIP .	AutoSetIP	Config	Visit	BatchUp	grade
_Secl	ectAll IP	Mac	Progress	Status	HTTP	TCP Port	UDP Port	Gate

The HDVR should be located and its IP address should be displayed. Select the HDVR and click on "Visit"; the program should automatically access the HDVR's web administration page from your default browser.

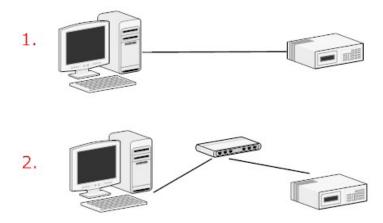
Sea	irch		ResDefaultIP	AutoSetIP	Config	Visit	BatchUp	gra
Sec.	lectAll							
No	IP	Mac	Progress	Status	HTTP	TCP Port	UDP Port	Ga

20



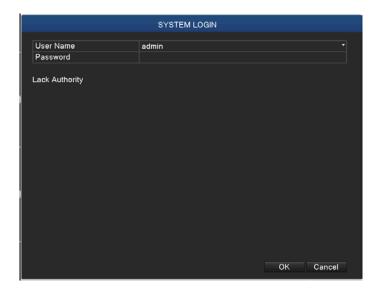
3.2 Accessing HDVR with its default IP address

The HDVR comes with a pre-configured static IP address "**192.168.0.20**". However, it is only used when there is no DHCP server presented in the network. Connect the HDVR and PC to your switch or hub, or connect the PC directly to the HDVR using a crossover Cat5 Ethernet cable.



You can select utility or type the IP address to connect with HDVR directly. After the login, a window appears, prompting for the HDVR's username and password. Enter "admin" for both **default username** and **password**, and then click "OK" to enter the system.





Login page of local display



	NET		
Networking	& Communication		
	Username: admin		
	Password:		
	Password:	2 Login	

Login page of Web



Chapter 4. Basic Operation

This chapter provides setup instructions of the HDVR local display Interface.

4.1 Main/Live Viewing

			2019-06-28 18:59:42 Fri
	PLANET Networking & Communication	PLANET Networking & Communication	
€ ? •6,001	+ ? ♦ D02	+ ? ♣D03	+ ? • € D04
PLANET Hetwarking & Communication	PLANET Networking & Communication	PLANET Networking & Communication	PLANET Retrosvilog & Commercentica
+ ? • D05	+ ? •€D06	+ ? -€,D07	+ ? &D08
PLANET Rebushing & Concession	PLANET Networking & Communication	PLANET Networking & Commenciation	PLANET Return & Commercellon
+ ? • D09	+ ? €D10	+ ? € D11	+ ? ♣ D12
PLANET Retuerding & Communication	PLANET Networking & Communication	PLANET Networking & Communication	
+ ? €D13	+ ? •€D14	+ ? ♣D15	+ ?

The main/live view is the first interface displayed once you access the HDVR through local display. It displays the live video of all cameras added to the HDVR and the above patterns chosen by the user. The interface has many functions explained below.



4.2 Preview

You can right-click mouse to switch between the windows. The system date, time and channel name are shown in each viewing window. The surveillance video and alarm statuses are shown in each window.

1	\bigcirc	Recording status	3	?	Video loss
2	Λ_m	Motion detection	4	-	Speaker Disabled
5	4	Internet Connected	5	*	Internet Disconnected

Table 4.1 Preview Icon

4.3 Desktop Shortcut Menu

In preview mode, you can right-click mouse to get a desktop shortcut menu as shown below. The menu includes Main Menu, Guide, PTZ Control, Coaxial Control, Preview Signal, Color Setting, Play Back, Record Mode, Channel Type and Camera Manage.

🚡 Main Menu	
View 1	►
🖽 View 4	►
🖬 View 8	►
I View 9	►
Wiew 16	
🥏 Guide	
PTZ Control	
Coaxial control	
O PreviewSignal	
E Color Setting	
PlayBack	
Record Mode	
🖃 Channel Type	
🖃 Camera Manage	

Picture 4.2 Shortcut Menu



4.3.1 Main Menu

The system main menu is shown below after login.



Picture 4.3 Main Menu

4.3.2 Window Switch

Previewing in single window, four windows, eight windows, nine windows or sixteen windows is up to your choice.



Different video input numbers have different switchable previewed pictures.



4.3.3 Guide

Select "Cloud" to enable cloud service function.

Select "Will no longer be prompted", HDVR will not display Guide interface after boot.

Click "Next Page" button to enter next option.

Gu	ide	
Cloud	✓	
Will no longer be prom	pted 🗸	
	Next Page	Cancel

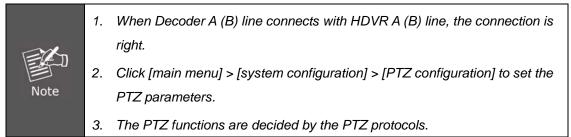
Picture 4.4 Guide

4.3.4 PTZ Control

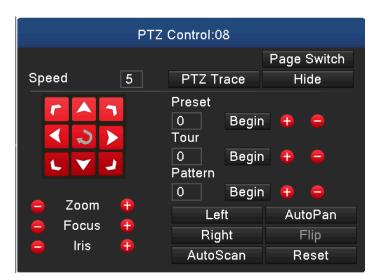
PTZ control is a little different between analog mode and full digital mode.

- 1) Digital channel the digital channel needs to link PTZ; the remote device should connect with PTZ with protocol correctly set also.
- Analog channel Only when the device is connecting with PTZ and configuring protocol correctly is OK.

Operation interface is shown below. The functions include PTZ direction control, speed, zoom, focus, iris, preset, tour, auto pan and so on.







Picture 4.5 PTZ Setup

Speed	Set the PTZ rotation range. Default range: 1 ~ 8.
Zoom	Click the 📃 / 🛨 button to adjust the focal length of the camera.
Focus	Click the 📃 / 🛨 button to adjust the focus of the camera.
Iris	Click the 📃 / 🛨 button to adjust the iris of the camera.
Preset	Click the 📃 / 🛨 button to add or delete preset points.
Hide	The current interface will be temporarily hidden after clicking it.
Direction Control	Control the PTZ rotation. Control of 8 directions is supported. (4 directions on Front panel is supported)
Page Switch	Switch between different pages.

4.3.5 Coaxial Control

Click "Coaxial Control" to enter coaxial control interface.



PTZ	Z Control:01
Enter Menu Exit N	Page Switch Menu
	Direct Aux Ope NONE - Open Close
Cancel	Aux Num Ope 0 Open Close
Enter	

Picture 4.6 Coaxial Control Setup

4.3.6 Preview Signal

Click "Preview Signal" to enter preview signal selection interface, and then set43 to AHD/TVI/CVI signal preview.

Mode All 1 2 3 4 AHD O O O O O TVI O O O O O CVI O O O O O auto O O O O O		Signal
AHD O O O O O TVI O O O O O CVI O O O O O	Mode	
TVI O		
CVI 0 0000		
	auto	
OK Cancel		OK Cancel

Picture 4.7 Signal

4.3.7 Color Setting

Color setting is only applied for hybrid /full analog mode and can be configured in analog channel. You can adjust the selective image parameters according to your requirement (current channel for single window display and cursor place for multi-window display). Through desktop shortcut menu, you are able to enter the interface. The image parameters include tonality, brightness, contrast and saturation. Besides, you can set different parameters at different time sections.



	Colo	r Setting:01		
Period	✓ 00 : 00 -	24 : 00	19:00 -	- 07:00
Brightness		50		50
Contrast		— 50	I	50
Saturation	I	50	I	50
Hue		— 50	I	50
Gain		— 50	I	50
Acutance	I	8	I	8
2D Noise Reduct	tion _	24		24
3D Noise Reduct	tion —	— 12	-1	12
	Default	Color Co	ору ОК	Cancel

Picture 4.8 Color Setting

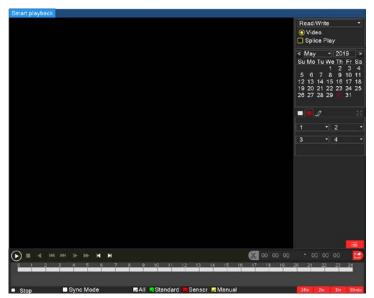
4.3.8 Playback

There are two methods for you to exceed playback.

- 1. In the desktop shortcut menu.
- 2. Main menu→Playback



The hard disk that saves the video files must be set as read-write or read-only state.



Picture 4.9 Video Playback



Кеу	Function	Кеу	Function
D / U	Play/Pause		Backward play
	Slow forward		Fast forward
Ľ	Previous frame	K	Next frame
	Previous file		Next file
	Full screen	0	Stop

Table 4.10 Playback Control Button

Operation tips: Show function of the key that cursor placed.



Play frame by frame; the playback status should be paused first.

Special functions:

Accurate playback: Select time (h/m/s) in the time column and then click the play button. The system can operate accurate playback according to searching time.

Local zoom: When the system is in the single-window, full-screen playback mode, you can drag your mouse on the screen to select a section and then left-click mouse to realize local zoom. You can right-click mouse to exit.



4.3.9 Record

Please check the current channel status; "o" means it is not in the recording status, and "•" means it is in the recording status. You can use desktop shortcut menu or click [main menu]> [recording function]> [recording conf.] to enter the recording control interface.

Record Mode					
Mode	All 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16				
Schedule	$\bigcirc \bigcirc $				
Manual	0 000000000000000000				
Stop	0 0000000000000000000000000000000000000				
	OK Cancel				

Picture 4.11 Record Mode

Schedule	Record according to configuration.
Manual	Click the button to start recording of selected channel in any state.
Stop	Click the button to stop recording of selected channel in any state.

4.3.10 Channel Type

Camera Manage		A	nalog ch	annels			Digital c	hannels	
Channel Status	1	080P	1080N	720P	D1	1080P	960P	720P	D1
		16				:			
Channel Type >	H	12 8				4			
	H	4				12			
	~					16			
	Maxi	mum F	Playback	large: 8					

Picture 4.12 Channel Type





In this series of product, the HDVR provides full analog channel mode, hybrid mode and full digital mode in channel type. Different models have different channel modes. User can shift the mode freely if necessary.

4.3.11 Camera Management

Onlin	еE	quipm	ient								-
17		IP A	ddress	;	Port	Protoco	1	MAC		Add	
1	П	192.1	68.1.2	17 3	4567	' NETIP	00:30):4f:00:0A	\:10		^
2		192.1	168.0.1	9	80	ONVIF	00:00	:00:00:00	00:00		
3		192	.168.1.	4	80	ONVIF	00:0e	:ae:a4:d4	1:8c		
4		192.1	168.1.1	2	80	ONVIF	00:30):4f:a2:8b	:d3		
5		192.1	168.1.3	9	80	ONVIF	00:30	0:4f:8d:20	D:f4		
6		192.1	168.1.4	1	80	ONVIF	00:30):4f:b0:99	9:47		
7		192.1	168.1.6	64	80	ONVIF	00:30):4f:bb:5b	:08		
<											۷
Se	arch	1	Add	C	luick	Add		Protocol	All		-
Adde	d d	evice									
4		Char	nnel	IP	Addr	ess	Protoco	l Edit	Delete	Э	
1		5		192	2.168	.1.62	NETIP	۲	×		
2		6		192	.168.	1.177	NETIP	۲	×		
3		7		192	.168.	1.204	NETIP	۲	×		
4		8		192	.168.	1.142	ONVIF	۲	×		
<											>
De	lete	M	lanual /	Add					Auto	Search	n 🔽
								OK		Cance	

Picture 4.13 Camera Management



Chapter 5. Main Menu

5.1 Main Menu Navigation

Main Menu	Sub Menu	Function
Depard	Config	Set the recording configuration, recording type and
Record	Config	recording time section
Playback	Config	Set recording search, recording play and video file
FlayDack	Coning	storage
Backup	Config	Detect backup device, format device, back up the
Васкир	Coning	selective files
	Config	Set the DHCP, IP address, subnet mask, gateway, DNS
		and port numbers
	DDNS	Enable/disable DDNS, set DDNS type such as
		PLANETDDNS, EasyDDNS
	UPNP	Enable/disable UPNP
Network	Email	Set SMTP server to send alarm message when event is
	Eman	triggered
	Cloud	Download and install app for mobile to view image
	Cioda	remotely via cloud
	Net Service	Provide PPPoE , RTSP , IP Filter , FTP , NTP and
		Dropbox settings
		Set motion detection alarm for selected input channel.
	Motion detection	The related parameters include motion sensitivity, motion
	Motion detection	area, time section, motion detection interval, message,
		post recording, PTZ, patrol, buzz, email and FTP upload
Sensor		Set camera mask for selected alarm channel. The
Gensor	Video blind	related parameters include time period, message, post
		recording, PTZ, patrol, buzz, email and FTP upload
		Set video loss alarm for selected input channel. The
	Video loss	related parameters include time period, message, post
		recording, PTZ, patrol, buzz, email and FTP upload



Main Menu	Sub Menu	Function
	Abnormality	System events include no storage, storage error, limited storage space, network disconnection and IP Conflict. Event action parameters: message and buzzer.
	General configuration	Set system time, data format, language and hard disk in action when it is full and comes with machine number, video standard, auto logout, etc.
	Encode configuration	Set main (extra) coding parameters: code mode, resolving ability, frame rate, code stream control, image quality type, code stream value, and frame between value and video/audio.
	GUI display	Set channel name, time display, record status, alarm status, deflicking, transparency and resolution.
System configuration	PTZ configuration	Set channel, PTZ protocol, address, baud rate, date bit, stop bit and parity
	Tour	Set patrol mode and interval time
	Output adjust	Adjust different deflates, display settings, brightness, contrast, saturation and hue parameters.
	Restore	Factory default settings for general setup, encode setup, recording setup, alarm setup, network setup, network service, output settings, account and RS232
	RS232	Set baud rate, data bits, stop bits and parity parameters for different functions
	Account	Modify user, group or password. Add user or group. Delete user or group.
	Version	Display firmware, MAC address information, etc.
	Log	Search and clear log information according to log types
Advanced	BPS	Display code stream information
	Online user	Break the connection of the existing login user. After breaking connection, the account is locked until booting up again.



Main Menu	Sub Menu	Function
	Device Info	Device configuration and information
	Upgrade	Upgrade firmware with external device (like USB)
	Automatic	Settings for automatic reboot system and auto-delete old
	Maintenance	files.
		Export the device's log or configuration to external
	Import/Export	device (like USB flash disk); input the configuration with
		external device (like USB flash disk).
	Camera	Search, add, delete IP cameras and display whatever
	Management	devices has been added
	Channel Status	Display resolution, frame rate and connection status
Camera		information
		Set digital mode, analog mode or hybrid mode. Before
	Channel Type	connecting cameras, it is necessary to set this function
		first.
HDD	Config	Set appointed hard disk as read-write disk, read-only
Management	Coning	disc, format hard disk, resume date and so on
Logout	Config	Logout, shut down or reboot

5.2 Record

Operations related to record.

5.2.1 Record Configuration

Set the recording parameters in the surveillance channel. The system sets 24 hours consecutive recording in the first startup. You can enter [main menu]> [recording function]> [record configuration] to set.



There is at least one read-write hard disk (refer to chapter 5.8.1).



		Re	ecord		
Record	>	Channel	1		
		Redundancy			
		The set for the	00		
		Length/min	60		
		Mode	O Schedule	OManual	O Stop
		Day	Fri		
		Period	Standard	Motion	
		00 :00 - 24 :00			
		00 :00 - 24 :00			
		00:00 - 24:00			
		00:00 - 24:00			

Picture 5.1 Record Configuration

Channel	Choose the corresponding channel number to set the channel. Choose the all option to set the entire channels.
Redundancy	Choose the redundancy function option to implement the file double backup function. Double backup is writing the video files in two hard disks. When you do the double backup, make sure that there are two hard disks installed. One is read-write disk and the other is redundant disk. (refer to 5.8.1)
Length	Set the time length of each video file. 60 minutes is default value.
Record Mode	 Schedule: Record according to the set video type (common, detection and alarm) and time section. Manual: Click the button and the channel is recording no matter what state it is in. Stop: Click the stop button and the channel stops recording no matter what state it is in.
Day	Select the day you want to record. The options include Sunday/Monday/Tuesday/Wednesday/Thursday/Friday/Saturday and All.
Period	Set the time section of common recording, The recording will start only in the set range. Meanwhile, the motion recording also can be set in this function.





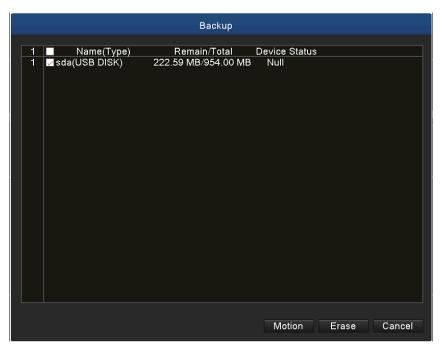
Refer to chapter 5.5 to set corresponding sensor function.

5.3 Playback

Refer to chapter 4.3.8.

5.4 Backup

You can back up the video files to external storage through setup. The storage must be installed before the file backup. If the backup is finished, the video can be displayed individually.



Picture 5.2 Backup

Motion	Detect the storage connected with the HDVR such as hard disk or universal disk.
Erase	Click the button and then the external USB storage will be formatted.



	Backup	
Channel	1	•
File Type	All	•
Туре	Read/Write	-
Start Time	2019 - 05 - 30 00 : 00 : 00	
End Time	2019 - 05 - 30 16 : 00 : 51	
Backup format	AVI	-
Remove Search		
2 ■Channel File Na 1 Ø01 2019-0 2 Ø01 2019-0	me Length 5-30/16.00.31-16.00.34[R].h265 44.00 KB 5-30/16.00.36-16.00.46[R].h265 64.00 KB	
Remaining109.00 KB/22		
Motion	Start Burning	

Picture 5.3 Backup

Remove	Clear the file information.
Search	Show the file information satisfying the set file attributes.
Backup Format	Configure the backup file format based on requirement. H.26X, AVI or MP4 format can be selected.
Start	Click the start button to start the backup
Burning	The file will be burned synchronously after clicking it.
Stop	Click the stop button to stop the backup.

5.5 Sensor Function

Sensor function includes motion detection, video blind, video loss and abnormality.

5.5.1 Motion Detection

When system detects the motion signal that reaches the set sensitivity, the motion detection alarm is on and the linkage function is turned on. The details are shown below.



Digital channel: It not only enables motion detection function at the local side, but also enables the remote device that is connected. When remote device detects motion movement, the local side will start alarm recording, provided this function is not enabled.

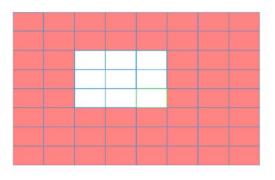
	Si	ensor	
Motion Detect >	Channel	1	
Video Blind	Enable		
	Sensitivity	Middle	~
Video Loss			
Absorptible	Region	Set	>
Abnormality	Period	Set	>
	Interval/Sec.	1	
	Record delay/Sec.	10	
	Record Channel	123456789	
	Tour	123456789	010111213141516
	PTZ Activation	Set	>
	Other Setting	🔲 Show Message	🔲 Send Email
		🔲 Buzzer	FTP upload
		Advanced OK	Cancel Apply
		Advanced OK	Cancel Apply

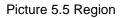
Picture 5.4 Motion Detection

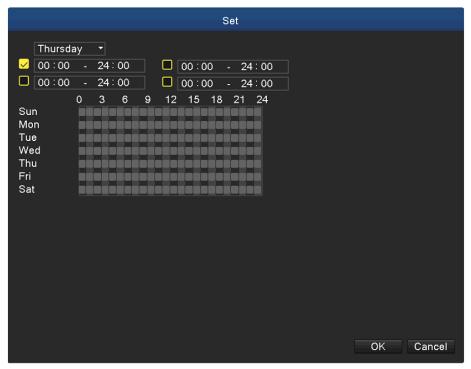
Channel	Choose the set motion detection channel.
Enable	The motion detection function is on when the box is checked.
Sensitivity	Six options are provided in the sensitivity.
Region	Click the set button to enter the set area. The area is divided into PAL 16X12. Red block means the motion is being detected in the defensive area. White block means the unfenced area. You can set the area as follows: Drag the mouse and draw the
Period	area. Default: all selected blocks are detection areas. Trigger the motion detection signal in the time section. You can set by week or set uniformly. Each day is divided into four time sections.



Interval/Sec.	Only one alarm signal is turned on even there are several motion detection signals in the set interval.
Record delay/Sec.	Delay a few moments and stop when the alarm state is turned off. The default is 10 seconds.
Record Channel	Choose the recording channel (multiple options supported). Trigger the video signal when the alarm is turned on.
Tour	It means that the selected channel is single window alternate patrol preview. The interval is set in the [Main Menu]>[System] > [Tour].







Picture 5.6 Set the Time Section



PTZ Activation: Set the PTZ activation when the alarm is turned on.

In hybrid mode, PTZ links to the related PTZ information of analog channel. While in digital channel model, PTZ links to the related PTZ information on the remote device which is connected.



To link PTZ, you can leave for [Shortcut menu]->[PTZ control] to set preset point, cruise between points and interval time, etc.

		PTZ	Activation		
CAM 1	None	- 0	CAM 2	None	- 0
CAM 3	None	• 0		None	• 0 • 0
CAM 5	None	- 0		None	 ↓ ↓
CAM 7	None	▼ 0		None	- 0
CAM 9	None	▼ 0	CAM 10		▼ 0
CAM 11	None	• 0	CAM 12	None	▼ 0
CAM 13	None	• 0	CAM 14	None	▼ 0
CAM 15	None	• 0	CAM 16	None	▼ 0
				ок	Cancel

Picture 5.7 PTZ Activation in Hybrid Mode

Show message: Pop-up the dialog box of alarm information on the screen of the local host computer.

Send email: It means sending an email to user when the alarm is turned on.



Set in the Email function and make a mail testing first.

FTP upload: When it is enabled, the video and picture of the related record channel and snapshot channel will be uploaded to an assigned position.



FTP upload needs to be set at Netservice interface.



Buzz: When alarm happens, the device will send out a buzz.

5.5.2 Video Blind

When the video image is influenced by the environment such as poor brightness or reaching the set sensitivity parameter, the camera mask function and the linkage function are turned on. The details are shown below.

Digital channel: It not only enables video blind function at the local side, but also enables the remote device that is connected. When the remote device is with video blind, the local side will start alarm recording, otherwise this function is not enabled.

	s	ensor	
Motion Detect	Channel	1	
Video Blind 🔉	Enable Sensitivity	Middle	
Video Loss	Constituty	Middle	
Abnormality	Period	Set	•
	Record delay/Sec. Record Channel Tour PTZ Activation Other Setting	10 123456788 123456788 Set Show Message Buzzer	
		Advanced OK	Cancel Apply

Picture 5.8 Video Blind

Set method: Refer to Motion Detection in Chapter 5.5.1.

5.5.3 Video Loss

When the equipment cannot obtain the channel video signal, the video loss alarm and the linkage function are turned on. The details are shown below.

Digital channel: It not only enables video loss function at the local side, but also enables the remote device that is connected. When remote device is with video loss, the local side will start alarm recording, otherwise this function is not enabled.



	S	Sensor		
Motion Detect	Channel	1		-
Video Blind	Enable			
Video Loss 🔉 🕻				
Abnormality	Period	Set		>
	Record delay/Sec.	10		
	Record Channel Tour	12345678		
	PTZ Activation	Set		>
	Other Setting	Show Message	Send Email	
		Buzzer	FTP upload	
		Advanced OK	Cancel App	ly

Picture 5.9 Video Loss

Set method: refer to Motion Detection in Chapter 5.5.1.

5.5.4 Abnormality

Analyzing and inspecting the current software and hardware of the device. When some abnormal events happen, the device will take an action immediately, such as show message and buzzer.

	Se	ensor	
Motion Detect	Event Type	No Disk	•
Video Blind	Enable		
Video Loss			
Abnormality >	Show Message		
	Buzzer		
		OK Cancel Apply	

Picture 5.10 Abnormal





Event Type	Select abnormality you want to inspect.
Enable	Select it to make sure abnormal function workable
Show Message	Automatically alarm cue dialog box pops out of the main screen
Buzzer	Device will have one long "di" sound while alarm is happening

5.6 System Setup

In system setting, the functions contain General, Encode, GUI display, PTZ configure/RS485 device, Tour, Output Adjust, Restore, RS232, and Account.

5.6.1 General

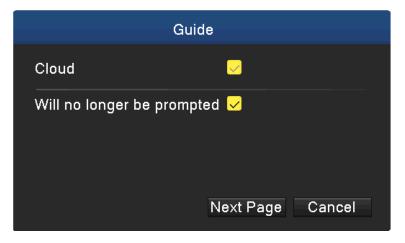
General >	System Time	2019 - 06 - 14 09 01 56	
Encode	DST	Set	>
	Date Format	YYYY MM DD	
GUI Display	Date Separator		-
DT7 06-	Time Format	24-HOUR	-
PTZ Config	Language	ENGLISH	
Tour	HDD Full	Overwrite	-
	DVR No.	0	
Output Adjust	Video Standard	NTSC	•
Restore	Auto Logout/min	0	
Restore	Machine Name	HDVR-1635	
RS232	Guide		
Account		OK Cancel Apply	

Picture 5.11 General Setup

System Time	Set the system date and time.
DST	Daylight saving time
Date Format	Choose the date format: YMD, MDY, DMY.



Date Separator	Choose list separator of the date format.	
Time Format	Choose time format: 24-hour or 12-hour.	
Language	Support multiple languages up to 28.	
HDD Full	Stop recording: Stop recording when the hard disk is full. Overwrite: Cover the earliest recording files and continue recording when the hard disk is full	
DVR No.	Only when the address button in the remote controller and the corresponding DVR number are matched, the remote operation is valid.	
Video Standard	PAL or NTSC.	
Auto Logout	Set the latency time in 0-60. 0 means no latency time.	
Machine Name	Can set the device's name.	
Guide	Enable or disable Guide page	



Picture 5.12 Guide

5.6.2 Encode Setup

HDVR provides encode setting in hybrid mode or full analog mode. The encode setting is for analog channel only.

Set the video/audio code parameter: video file, remote monitoring and so on. Set every main



stream parameter in the left part, and set the extra stream parameter in the right part.



Extra stream introduces video compression technique which applies for multi-channel playback simultaneously, dial-up multi-channel real-time monitor under poor bandwidth, or mobile monitor, and so on.

	Sy	/stem	
General	Channel	1	-
Encode >	Stream	Main Stream	~
	Compression	H.265	
GUI Display	Resolution	1080P(1920x1080)	~
50405 B	Frame Rate	25	•
RS485 Device	Bit Rate Type	CBR	-
Tour	Quality	high	
	Bit Rate(Kb/S)	2048	
Output Adjust	I Frame Interval	2	
Restore RS232			
Account			
	Default Copy	OK Cancel A	pply

Picture 5.13 Digital Encode Setup

System			
General	Channel	1	
Encode >	Video		
	Compression	11.200	▼ Extra Stream1 ▼
GUI Display	Resolution	1080P(1920x1080)	* CIF(352x240) *
PTZ Config	Frame Rate	25	• 8 •
FT2 Coning	Bit Rate Type	VBR	VBR T
Tour	Quality	high	• low •
	Bit Rate(Kb/S)	2281	• 92 •
Output Adjust	I Frame Interval	2	2
D			
Restore	Audio	Advanced	> Advanced >
RS232			
Account			
	Default Copy	ОК	Cancel Apply

Picture 5.14 Hybrid/ Analog Encode Setup

Channel	Choose the channel number.
---------	----------------------------





Compression	Standard H.264/H.265/H.265+ main profile and extra stream.	
Resolution	Resolution type: 1080P/720P/960H/VGA/D1/CIF.	
Frame Rate	1 frame/s~25 frame/s	
Bit Rate Type	You can choose limited code stream (CBR) or variable code stream (VBR). When you choose the variable code stream, there are six image quality options. Under the limited code stream, you can choose the code stream manually.	
Bit Rate	Set the code stream value to modify the image quality. The larger code stream values the better image quality. 4563kbsp/3422kbps/2281kbps/1710kbps/1140kbps/570kbps	
Frame Interval	Choose the range from 2 to 20s.	
Video & Audio	When the icons are all in reverse display, the video file is video and audio multiplex stream.	
Extra Stream Setting	 Extra stream: It is used for client side monitoring and mobile monitoring. Channel title: Select channel title and then choose whether it needs to enable video and audio. The resolution, frame rate and bit rate type settings are the same as main stream. 	

5.6.3 GUI Display

Configure the video output parameters including the monitor output mode and encode output mode.

Monitor output: In the local preview mode, it includes channel title, time display, channel display, record status, alarm status, transparency and region cover information.



Encode output: In the network surveillance and video file mode, it includes channel title, time display, channel display, record status, alarm status, transparency and region cover information.

	s	system	
General	Channel Title	Set	•
Encode	Encode Video Out		
	Channel	1	•
GUI Display 🔉	Time Display		
PTZ Config	Channel Title	✓	
F12 Coning	Set		
Tour	Region Cover		
Output Adjust			
	Monitor Output		
Restore	Time Display	✓	
RS232	Channel Title		
	Record Status		
Account	Alarm Statu		
	Deflick	✓	
	Bitrate Info		
	Transparency	——— 175	
	Resolution	1280*1024	-
		OK Can	icel Apply

The GUI Display Page in Hybrid Mode and All Analog Mode

Picture 5.15 Output Mode

	Sy	stem	
General	Channel Title	Set	>
Encode			
GUI Display 👂	Time Display Channel Title		
	Record Status		
RS485 Device	Alarm Statu		
Tour	Deflick		
	Bitrate Info		
Output Adjust	Transparency Resolution	175 1280*1024	
Restore	Resolution	1280-1024	
RS232			
N3232			
Account			
		OK Cancel	Apply

The GUI Display Page in Full Digital Channel Output Mode Picture 5.16 Output Mode

	Click the channel name modify button and enter the channel
Channel Title	name menu. The 16 Chinese characters and 25 letters are
	supported.



Time Display	Display the system data and time in the surveillance window.	
Channel Display	Display the system channel number in the surveillance window.	
Record Status	Display the system recording status in the surveillance window.	
Alarm Status	Display the system alarm status in the surveillance window.	
Transparency	Choose the background image transparency. The range is 128~255.	
Resolution	Set display resolution.	
Channel	Choose the set code output channel number.	
Region Cover	Click the cover area button and enter the corresponding channel window. You can cover the arbitrary using mouse. (Black region is for output)	
Time Display and Channel Display	Set the display position of channel title and time title.	



The channel number, region cover, time title and channel title settings exist in output mode only when the device is in hybrid (HVR) mode or full analog (DVR) mode.



5.6.4 PTZ/RS485 Device

When system is in hybrid mode or full analog mode, PTZ device and RS485 device are listed on the PTZ configure page.

		System	
General		PTZ Device	RS485 Device
Encode	Channel	1	-
Licodo	Control	Coaxial	•
GUI Display	Protocol	HD-TVI	NONE -
DTT O C	Address	1	1
PTZ Config >	Baudrate	9600	• 9600 •
Tour	Data Bits	8	• 8 •
	Stop Bits	1	▼ 1 ▼
Output Adjust	Parity	None	* None *
Restore RS232			
Account		ок	Cancel Apply

Picture 5.17 PTZ Configuration

Channel	Choose input channel of dome camera.	
Protocol	Choose the corresponding dome protocol. (PELCOD as an example)	
	Set as the corresponding dome address. Default: 1.	
Address	Note The address must be consistent with the dome address	
Baud Rate	Choose the corresponding dome baud rate length. You can control the PTZ and vidicon. Default: 9600.	
Data bits	Include 5-8 options. Default: 8.	
Stop Bits	Include 2 options. Default: 1.	
Parity	Include odd check, even check, mark check, space check.	
	Default: none.	



When in full digital mode, only RS485 device is shown below.

System				
General	Control	Serial	-	
Encode	Protocol	NONE	-	
	Address	1		
GUI Display	Baudrate	9600		
RS485 Device >	Data Bits Stop Bits	8		
Tour	Parity	None	-	
Output Adjust				
Restore				
RS232				
Account				
		OK Cancel App	ly	

Picture 5.18 RS485 Device

Protocol	Choose related protocol of brand model (e.g. Vista)	
Address	Set with corresponding address, default is 1	
Baud Rate	Choose baud rate that related device uses; default is 9600	
Data Bits	Include 5-8 options, default is 8	
Stop Bits	Include 2 options, default is 1	
Parity	Include odd check, even check, mark check, space check Default: none	



When analog channel exists, PTZ and RS485 will be shown in PTZ setting. If device is in digital mode, it will show RS485 only.



5.6.5 Tour

Set the patrol display. The tour mode is enabled when box is checked. You can choose the single-view, four-view or nine-view of single mode tour or hybrid mode tour.

	Syst	em
General	Enable Tour	
Encode	Interval/Sec.	5
GUI Display	View 1 View 4	1 2 8 4 6 6 7 8 a a
	View 8	8885678
RS485 Device	View 9	1
Tour >	Alarm Tour Type	
Output Adjust	Interval/Sec.	5
Restore	Return after finished	
RS232		
Account		
		OK Cancel Apply

Picture 5.19 Tour Configure

MD Interval	Set the patrol switch interval. The set range is 5-120 seconds.	
	Set the interval to shift alarm tour; range is 5-120 seconds.	
Alarm Tour	Choose return when alarm ends. When alarm is linking to tour,	
	the system will auto shift to nine-view after alarm is finished.	



5.6.6 Output Adjust

In hybrid mode, the output adjust function supports black vertical and black horizontal adjustment; in full digital mode, the function does not support the adjustment below. The function allows you to adjust TV output area parameters. You can go to the setup interface via desktop shortcut menu or enter [main menu]> [system]> [output adjust].

	Syst	em		Syst	lem
General	Top Deflate	0	General	Top Deflate	0
Encode	Bottom Deflate	∎ 0	Encode	Bottom Deflate	00
GUI Display	Left Deflate Right Deflate	0 0	GUI Display	Left Deflate Right Deflate	
	Display Settings	VGA/HDMI		Display Settings	VGA/HDMI *
PTZ Config	Brightness	——1 50	RS485 Device	Brightness	50
Tour	Contrast	 5 0	Tour	Contrast	 50
	Saturation	50		Saturation	50
Output Adjust >	Hue	 50	Output Adjust >	Hue	50
Restore			Restore		
RS232			RS232		
Account			Account		
			1000		
		Default OK Cancel			Default OK Cancel
					or cancar

Hybrid Mode

Full Digital Mode

Picture 5.20 Output Adjust



The black vertical and horizontal lines at output adjust can affect analog channel in the hybrid mode.



5.6.7 Restore

Reset the HDVR's settings to their factory default values. You can choose the items according to your requirements.

System			
General	Select all		
Encode	General	Ō	
GUI Display	Record		
	Alarm Set		
RS485 Device	Network		
Tour	Net Service		
0.1.1.1.1.1.1	Output Settings		
Output Adjust	Account RS232		
Restore >	10202		
RS232			
Account			
		OK Cancel A	Apply

Picture 5.21 Restoring to Default

5.	6.8	RS232
ς.	0.0	

		System		
General	Function	NONE		
Encode	Baudrate	115200		-
Elicoue	Data Bits	8		-
GUI Display	Stop Bits	1		-
RS485 Device	Parity	None		-
Tour				
Output Adjust				
Restore				
RS232 >				
Account				
		01/	0	Analys
		ОК	Cancel	Apply

Picture 5.22 Serial Port Setting

Function	Common serial port is used to debug and update program set up specific serial port.	
Baud Rate	Choose the corresponding baud rate length.	



Data Bits	Include 5-8 options.	
Stop Bits	Include 2 options.	
Parity	Include odd, even, mark, space, default is none.	

5.6.9 Account

Manage the user purview.

- The character length is 8 bytes at most for the following user and user team name. The blank ahead or behind the character string is invalid. The middle blank in the character string is valid. Legal characters include letter, number, underline, subtraction sign, and dot.
- 2. There is no limit in the user and user group. You can add or delete the user group according to user definition. The factory setup includes user and admin. You can set the team as you wish. The user can appoint the purview in the group.
- 3. The user management includes group and user. The group and user name cannot be the same. Each user only belongs to one group.

		System		
General Encode GUI Display RS485 Device Tour Output Adjust	3 User Name 1 ■ admin 2 ■ guest 3 ■ default		Status GUI Normal Default User	
Restore RS232 Account		Add User	Add Group Delete Use	r Delete Group
	Modify User Modify Group			>
	Modify Pwd			>
			Updat	e Cancel

Picture 5.23 Account Management

Modify User: Modify the existing user attribute. Modify Group: Modify the existing team attribute.





Modify Password: Modify the user password. You can set 1-6 bit password. The blank ahead or behind the character string is invalid. The middle blank in the character string is valid.



The user who possesses the user control purview can modify his/her own or other user's password.

Modify Pwd			
User Name	admin 🔹		
Old			
New			
Confirm			
	OK Cancel		

Picture 5.24 Modifying Password

Add User: Add a user in the group and set the user purview. Enter the menu interface and input the user name and password. Choose the team and choose whether cover using the user. Cover using means that the account can be used by multiple users at the same time. Once the team is chosen, the user purview is the subclass of the team. We recommend that the common user's purview is lower than the advanced user.

			Add Use	ər			
Lise	r Name						
	seable						
	sword						
Con	firm						
Men	no						
GRC	DUP	admin					-
38	A	uthority					
1	🔽 Shutdown the de	vice					^
2	🗸 Channel Title						
3	Schedule						
4	📈 Backup						
5	🔽 HDD Managemei	nt					
6	Account						
7	Query System Inf	fo					
8	Query Log Info						
9	🗸 Clear Log						
10	✓ System Update						
	11 Auto Maintain						
	12 General Config 13 Encode Config						
14	14 VRS232						
15 Vetwork							
							Y
					ок	0.000	-1
					OK	Cance	81 1

Picture 5.25 Adding User



Add Group: Add a user group and set the purview. There are 33 different purviews: shut down the equipment, real-time surveillance, playback, record setting, video backup, etc.

	Add Group	
Nan	e	
Mer		
38		
1	Shutdown the device	
2	Channel Title	
3	Z Schedule	
4	🐱 Backup	
5	☑ HDD Management	
6	Account	
7	🖉 Query System Info	
8	Query Log Info	
9	🖉 Clear Log	
10	Z System Üpdate	
11	Z Auto Maintain	
	General Config	
13	✓ Encode Config ✓ RS232	
	Network	
	Alarm Set	
	Addition	
	✓ PTZ Setting	
	PTZ Control	
20	Restore	
-		
	OK Cancel	
	on ounoi	

Picture 5.26 Adding Group

Delete User: Delete the current user. Choose the user and click the delete user button.

Delete Group: Delete the current group. Choose the group and click the delete group button.

Delete Group				
GROUP	admin 🔻			
Name	admin			
Memo	administrator group			
	Delete Cancel			

Picture 5.27 Delete Group

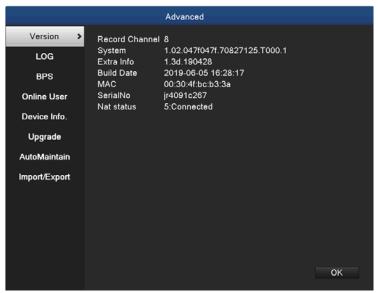


5.7 Advanced

Manage tools menu provides Version, Log, BPS, Online User, Device Info, Upgrade, Auto Maintain and Import/Export functions.

5.7.1 Version

Display the basic information such as hardware information, software version, issue date, serial number and NAT status.



Picture 5.28 Version Information



5.7.2 Log

Log information includes system operation, configuration operation, data management, alarm affair, recording operation, user management, file management, etc. You can set the time section and click the **Search** button to look for logs. The log information will be displayed as the following list (one page lists 128 items). Next, you can press the **Pre Page** or **Next Page** button to browse and press the **Clear** button to clear all log information.

	Adva	inced		
Version	Туре	All		•
LOG >	Start Time End Time	2019 - 06 - 14 00 : 00 : 0		
BPS	Search	2019 - 06 - 15	00 : 00 : 00	
Online User	38 Log Time		Туре	
Device Info.	1 2019-06-14 09:01 2 2019-06-14 10:36	:01	Log In Log In	
Upgrade	3 2019-06-14 10:48 4 2019-06-14 10:48 5 2019-06-14 10:48	:50	Shut Down Reboot Log In	
AutoMaintain	6 2019-06-14 10:48 7 2019-06-14 10:48	:53	Save Configuration	
Import/Export	8 2019-06-14 10:48 9 2019-06-14 10:48 10 2019-06-14 10:49 11 2019-06-14 10:49 12 2019-06-14 10:49	:53 :57 :06 :06	Save Configuration Save Configuration Log Out Log In Log In	> v
	I≊ III Pre Page Next Page		Remove Cance	

Picture 5.29 Log Information

5.7.3 BPS

Display the code stream (Kb/S) and hard disk capability (MB/H) in real time. It displays as the wave sketch map.

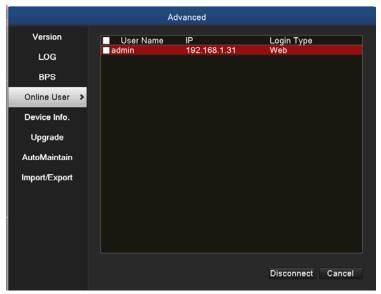
			Advanced			
Version	Channel	Kb/s	Mb/h	Channel	Kb/s	Mb/h
LOG	1	0	0	5	0	0
BPS >	2 3	0 0	0 0	6 7	0 0	0 0
Online User	4	0	0	8	0	0
Device Info.						
Upgrade						
AutoMaintain						
Import/Export						

Picture 5.30 BPS



5.7.4 Online User

Check the information of network user that is connected with local device. Tick the selected user to break up connection, (make $\sqrt{}$ at the box), and then the user will be frozen after connection is stopped. It will not log in until device reboots.



Picture 5.31 Online User

5.7.5 Device Info

Provide information of device interface like audio in, alarm in/out.

	Advance	d
Version	Audio In Channels	0
LOG	Alarm In Channels	0
LUG	Alarm Out Channels	0
BPS	GUI Theme	General -
Online User	Remote control type	General *
Unime Oser	Pad Type	10PIN *
Device Info. >	Maximum Playback large	4
	Default playback large	
Upgrade	4	
AutoMaintain	Enable RS232	
Automaintain	Enable PTZ	
Import/Export	CVBS	
		OK Cancel Apply

Picture 5.32 Device Information



5.7.6 Upgrade

	Advanced
Version	Upgrade Position -
LOG	Upgrade file •
BPS	
Online User	
Device Info.	
Upgrade >	
AutoMaintain	
Import/Export	
	Upgrade Cancel

Picture 5.33 Upgrade

Upgrade: Choose USB interface.

Upgrade file: Choose the upgrade file.

5.7.7 Auto Maintain

The user can set the time to auto reboot and auto delete file.

	Advanced					
Version	Auto-Reboot System	Every Tuesday	-			
LOG	at	01:00				
	Auto-Delete Old Files	Never	-			
BPS						
Online User						
Device Info.						
Upgrade						
AutoMaintain 👂						
Import/Export						
		OK Cancel App	ply			

Picture 5.34 Auto Maintain

5.7.8 Import/Export

Users can export the log info and the configure file from device to connected flash stick, and also can import related configure file from flash stick to settings, which greatly bring



convenience to the customers.

	Adva	nced
Version	Device Name	
LOG		
BPS	File Name	Log_06141411.zip
Online User	Export	
	File Name	Cfg_1.02.047f047f.70827125.T000.1_0614
Device Info.	Export	
Upgrade	File Name	
AutoMaintain	Import	
Import/Export >		
		Cancel

Picture 5.35 Import/Export Interface

5.8 HDD Management

Configure and manage the hard disk. The menu displays the following current hard disk information: hard disk number, input port, type, status and overall capability. The operation setup includes the write-read disk, read-only disk, redundant disk, hard disk format, recover and partition. Choose the hard disk and right-click to execute.



Read/Write Disk: The equipment can write or read data. Read-only Disk: The equipment can read data but cannot write data. Redundant Disk: Double-back up the video files in the write-read disk.

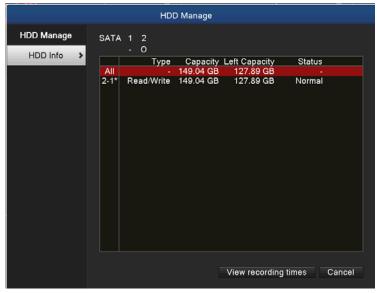


HDD Manage					
HDD Manage 🔉	Disk No	DiskSpace	Status	Property	Remaining
HDD Info	1-1	149.04 GB	Normal	Read/Write	
			Format	Disk Recover	Apply

Picture 5.36 HDD Manage

5.8.1 HDD Info

Display the hard disk state and it lists hard disk type, overall capability, residual capability, the recording time, etc.



Picture 5.37 HDD Info

Tips: Symbol "o" means that the hard disk is normal; symbol "X" means that the hard disk is broken down; symbol "-" means that there is no hard disk. If you need to replace the damaged hard disk, you must shut down the HDVR, take out all the damaged hard disks and then install new ones.



Symbol "*" behind serial number means the current working disk such as 1*. If the corresponding disk is damaged, the information will show "?".

5.9 Network

Manage tools menu provides Network, DDNS, UPNP, Email, Cloud and Net Service.

5.9.1 Network Setup

	Ne	twork			
Network >	Net Card	Wire Netcard			
	DHCP Enable				
DDNS	IP Address	192 • 168 • 1 • 213			
UPNP	Subnet Mask	255 · 255 · 255 · 0			
	Gateway	192 · 168 · 1 · 254			
EMAIL	Primary DNS	168 - 95 - 1 - 1			
Cloud	Secondary DNS	168 · 95 · 192 · 1			
Net Service Network Testing					
	TCP Port	34567			
	HTTP Port	80			
	Mobile Port	34600			
	MTU	1500			
	HS Download				
	Transfer Policy	Quality Preferred			
		OK Cancel Apply			

Picture 5.38 Network Setup

Net Card	You can choose cable network card or wireless network card.	
DHCP Enable	Obtain IP address automatically.	
IP Address	Set the IP address. Default: 192.168.0.20.	
Subnet Mask	Set the subnet mask code.	
Gateway	Set the default gateway.	
DNS Setup	Domain Name Server. It translates the domain name into IP address. The IP address is offered by network provider. The	



	address must be set and reboot to enable to work.	
Media Port	Default: 34567.	
HTTP Port	Default: 80.	
HS Download	Network high-speed download	
Transfer Policy	There are three strategies: self-adaption, image quality precedence and fluency precedence. The code stream will adjust according to the setup. Self-adaption is the tradeoff between the image quality precedence and fluency precedence. Fluency precedence and self-adaption are valid only when the assistant code stream is turned on. Otherwise, image quality precedence is valid.	

5.9.2 DDNS

Network				
Network	DDNS Type	PLANET DDNS		-
DDNS >	Enable			
UPNP	Domain Name User Name			
EMAIL	Password			
Cloud				
Net Service				
		ок	Cancel	Apply

Picture 5.39 DDNS Setup

It is the abbreviation of dynamic domain name server.

DDNS Type	DDNS service providers; PLANET DDNS is free to register.
-----------	--



Domain NameProvide the domain name registered by DDNS.For example, hdvr1630test.planetddns.com	
User Name	Provide the account registered by DDNS.
Password	Provide the password registered by DDNS. When the DDNS is successfully configured and starts, you can connect the domain name in the IE address column to visit.

EX	1.	The DNS setup must be configured correctly in the network setup.
	2.	It is not necessary to input user name and password for Easy DDNS. The
Note		system will generate a domain name automatically according to MAC address.

5.9.3 UPNP

UPNP protocol is to realize auto port forwarding on router, precondition of using this function is to make sure the UPNP function of router is enabled.

Network				
Network	Enable			
DDNS	HTTP Port	0		
UPNP >	TCP Port Mobile Port	0		
EMAIL	Make sure UPNP is	running on router,be	fore using this	
Cloud				
Net Service				
		ОК	Cancel	Apply

Picture 5.40 UPnP Setup

Enable	It means the function is activated when the box is checked.
HTTP Port	Router will automatically distribute HTTP port for the device. The port is needed when live view is made via Web.



TCP Port	Router will automatically distribute TCP port for the device.
	The port is needed when live view is made via CMS.

5.9.4 EMAIL

If the alarm is turned on or the alarm linkage photos are taken, send an email about the alarm information and the photos to appointed address.

Network	Enable	1 mm
DDNS	SMTP Server	▼ smtp.gmail.com
	Port	465
UPNP	Need SSL	
EMAIL >	User Name	
EMAIL >	Password	
Cloud	Sender	
	Receiver	
Net Service	Title	Alarm Message

Picture 5.41 Email Setup

SMTP Server	Email server address. It could be an IP address or domain name. Domain name can be translated only it is the correct DNS configuration.
Port	Email server port number.
SSL	Decide whether using Secure Socket Layer protocol to login.
User Name	Apply the email server user name.
Password	Input the password corresponding to the user.
Sender	Set the email sender address.
Receiver	Send the email to appointed receivers when the alarm is turned on. You can set three receivers at most.



Title

You can set a message as you want (e.g. Alarm Message).

5.9.5 Cloud

The cloud function is enabled by default. The user is able to scan the iOS or Android QR code to install app viewer (OKview) on mobile. The app viewer can help user to monitor channels of the HDVR remotely.

		Network		
Network	Enable			
DDNS	Server IP			
UPNP	Port Device ID	34600 jr4091cd51		
EMAIL	iOS	Android	Remote Access	
Cloud >		回機調回		
Net Service				
		Default	OK Cancel	Apply

Picture 5.42 Cloud



When you execute OKview app, you can input the required information as below then press the "save" button to take effect.

f	9 الله. فِهُ 🖸 🕼	4% 💷 15:48
S Nev	w Device	Save
Register Mode	P2P/Cloud	>
DeviceName	HDVR	
GID	jr4091cd51	
User Name	admin	
Password	••••	
Channel Num	16	AutoGet
	Modify cha	nnel name

Picture 5.43 App Setup



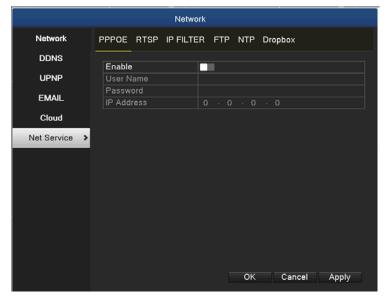
In GID field, you can double click the QR code icon to start your QR code scanner app. Next, please scan the Remote Access QR code or the Remote Access QR code label on the button of the case to input the device ID.

5.9.6 Net Service

The Net Service provides PPPoE, RTSP, IP Filter, FTP, NTP and Dropbox functions.



Choose the network service option and click the set button to configure the advanced network functions or double-click the service button to configure the parameters.



Picture 5.44 Net Service Setup

PPPoE Setup

	Network	
Network	PPPOE RTSP IP FILTER FTP NTP Dropbox	
DDNS	Enable	
UPNP	User Name	
EMAIL	Password IP Address 0 · 0 · 0 · 0	
Cloud		
Net Service 👂		
	OK Cancel	Apply
	OK Cancer	Apply

Picture 5.45 PPPoE Setup

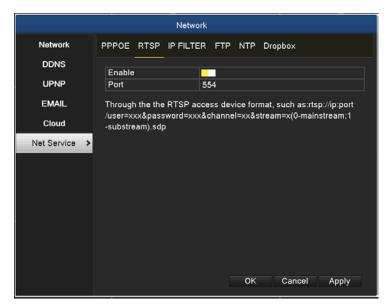
Input the user name and password that ISP (Internet service provider) provides. After saving it, reboot your system. Then the HDVR will build a network connection based on PPPoE. The IP address will change to dynamic IP address after the above operation is well done. **Operation:** The current IP address is displayed after successful dial-up. Use this IP address to



visit the HDVR through user port.

RTSP Setup

The setting is for live view via browsers (Safari, Firefox, and Chrome) and VLC software. This function is only for live view and it cannot control the device.



Picture 5.46 RTSP Setup

Enable	It means the function is activated when the box is checked.
Port	The default port number is 554.

IP Filter Setup

When choosing the white list, only the listed IP address can connect the HDVR. The 64 IP addresses are supportive in the list. When choosing the black list, the listed IP address cannot connect the HDVR. The 64 IP addresses are supportive in the list.

You can delete the set IP address by $\sqrt{}$ in the options.



When the same IP address is in the white and black list at the same time, the black list precedence is higher.



		Netv	work			
Network	PPPOE	RTSP IP FIL	TER FTP	NTP D	ropbox	
DDNS	Enable					
UPNP	Restricte	ad Type	Blacklist			
EMAIL	0.0		Add			
Cloud	0 Bar	ined IP				
Net Service >						
Net Service 7						

Picture 5.47 IP Filter Setup

FTP Setup

FTP is available only when alarm happens or alarm activates record and snapshot. It will upload related record and snapshot pictures to FTP server.

	Net	work
Network	PPPOE RTSP IP FIL	TER FTP NTP Dropbox
DDNS	-	
UPNP	Enable Server IP	FTP
	Port	21
EMAIL	User Name	
Cloud	Password	
	Anonymous	
Net Service >	max i no congunite	128
	DirName	

Picture 5.48 FTP Setup

Server IP	IP address of FTP server
Port	Port number of FTP server. The default value is 21





User Name	User name of FTP server	
Password	Password of FTP server	
Anonymous	When anonymous is enabled, setting user name and password is not required	
Max. File Length	Max. length for uploaded files at every packed, default value is 1024M	
Dir Name	The directory of uploaded files	



The user should have authority to upload files.

NTP Setup

The NTP server must be installed in the PC.

Network				
Network	PPPOE RTSP IP FILTER FTP NTP Dropbox			
DDNS	Enable			
UPNP	Server IP * pool.ntp.org			
EMAIL	Port 123 Time Zone GMT+08:00 •			
Cloud	Update Period/min 10			
Net Service >				
	OK Cancel Apply			

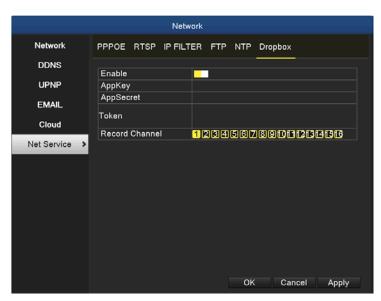
Picture 5.49 NTP Setup

Server IP Input the IP address installed on NTP server.



Port	Default: 123. You can set the port according to NTP server.
Update Period	The same with the NTP server check interval. Default: 10 minutes.

Dropbox Setup



Picture 5.50 Dropbox



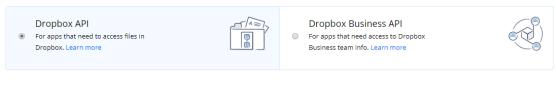
The procedure follows below:

1. Log in with a Dropbox account to apply for a Drobox space. Go to

https://www.dropbox.com/developers/apps and create an app (click on the "Create app" button). The interface is shown below.

Create a new app on the DBX Platform

1. Choose an API



2. Choose the type of access you need

Learn more about access types

۲	App folder – Access to a single folder created specifically for your app.
0	Full Dropbox – Access to all files and folders in a user's Dropbox.
3. Na	me your app
Simo	nTestApp3

Here we create a normal API, the permissions for the directory and the name is

SimonTestApp3. Specify the "Create app" button, then enter the following interface:

SimonTestApp3

Settings	Branding	Analytics	
Status		Development	Apply for production
Development u	sers	Only you	Enable additional users
Permission type	2	App folder 🛛	
App folder nam	e	SimonTestApp3	Change
App key		i97uk67tmx518xv	
App secret		Show	

Firstly, click the "Enable additional users" button. Next, click the "OKay" button in the pop-up dialog box, and then click "Show" after the APP secret to display the contents of the secret. As shown below:



Limit raised to 500 users	
Your app can now be linked with up to 500 users. If you'd like to link more than 500 users, please apply for production status. Learn more about production status requirements.	
Okay	

SimonTestApp3

Settings	Branding	Analytics		
Status		Development		Apply for produ
Status		Development		Apply for produc
Development u	isers	0 / 500		Unlink all u
Permission typ	e	App folder 🛛 🕖		
App folder nan	ne	SimonTestApp3		Ch
App key		i97uk67tmx518xv		
App secret		hx302bw2ynyrfdx		

Set the corresponding parameters, click the "Apply for production" button, and mainly remember the contents of the App key and App secret. We need to use it for the device configuration. If you don't remember it, you can view all the created apps at https://www.dropbox.com/developers/apps. You can also view them by clicking on the corresponding app.

 Log in the device with IE, go to the "Net Service→Dropbox" configuration interface, then check Enable, and copy the values of App Key and App Secret in Step 1 to the "Key" and "Secret" columns in the configuration interface. After clicking the "Get Code" button and a new web page will be opened.



DROPBO>	< 2
Enable	
АррКеу	i97uk67tmx518xv
Secret	hx302bw2ynyrfdx
Code	
Get Code	OK Cancel

3. In the newly opened page, follow the prompts and finally copy the Code value in the following figure to the "Code" column in the "Network Service → Dropbox" configuration interface.

Note: Be sure to complete the operation within 3 minutes, otherwise the code will expire.





DROPBOX	8
Enable	$\overline{\mathbf{v}}$
АррКеу	i97uk67tmx518xv
Secret	hx302bw2ynyrfdx
Code	RKJ0ucb94ckAAAAAAAAA+f2JvHfxzReLsCOnaIN7jYQ
Get Code	Cancel
Please complete	all the step in three minutes

4. Click "OK" and wait for the result. If the configuration fails, repeat steps 2 and 3 until the configuration is successful.

DROPBOX	8
Enable 🔽	
AppKey i97uk6	Prompt X
Secret hx302 Code RKJ0u	Save configuration to device successful
Code RKJ0u	確定
Get Code	OK
Please complete all the s	step in three minutes

5.10 Camera

The camera function includes camera manage, channel status and channel type.



There is only analog mode if device is in full analog mode



Channel Status >	Channel	Max. resolution	Resolution	Frame Ra
	CAM01	1080P	Unknown	Unknow
Channel Type	CAM02	1080P	Unknown	Unknow
	CAM03	1080P	Unknown	Unknow
	CAM04	1080P	Unknown	Unknow
	CAM05	1080P	Unknown	Unknow
	CAM06	1080P	Unknown	Unknow
	CAM07	1080P	Unknown	Unknow
	CAM08	1080P	Unknown	Unknow
	CAM09	1080P	Unknown	Unknow
	CAM10	1080P	Unknown	Unknow
	CAM11	1080P	Unknown	Unknow
	CAM12	1080P	Unknown	Unknow
	CAM13	1080P	Unknown	Unknow
	CAM14	1080P	Unknown	Unknow
	CAM15	1080P	Unknown	Unknow
	CAM16	1080P	Unknown	Unknow
×				
`	< 1			5

Channel Manage Page in All Analog (DVR) Mode

Picture 5.51 Camera Interface

			Ca	mera						
Camera Manage≯	Onlin	e Equ	ipment							
Channel Status	22		IP Address		Protocol	Ν	ИАС		Add	
onumer otatas	1		92.168.1.42	34567	NETIP	00:30:4			۲	
Channel Type	2		92.168.1.62		NETIP	00:30:4			•	
onannoi rypo	3		2.168.1.177		NETIP	00:30:4				
	4		92.168.1.204		NETIP	00:30:4				
	5		92.168.1.217	34567	NETIP	00:30:4				
	6 7		92.168.0.19	80	ONVIF	00:00:0				
	/		192.168.1.4	80		00:0e:a	e:a4:d4	4:80	•	_,
	80	S Add		Quick Add			rotoco			
	_	Search Add		QUICK A	400	r	101000			_
	Adde	d devi	ice							
	0	Ch	annel	IP Addre	ess F	Protocol	Edit	Delet	е	
	De	lete	Manual Add	1				Auto	Search	n 🔽
							ок		Cance	I

Channel Manage Page in Hybrid Mode/Full Digital Mode Picture 5.52 Camera Interface



Digital Channel:

			Ca	amera						
Camera Manage≯	Onlin	ie Equ	ipment							
Channel Status	21		IP Address	Port	Protoco		MAC		Add	
	1		92.168.1.62 92.168.1.177	34567 34567	NETIP NETIP		IF:00:06 4f:00:06		•	
Channel Type	3		92.168.1.204				F:00:06		•••	-
	4		92.168.1.217				4f:00:0A		•	
	5		92.168.0.19	80	ONVIF		0:00:00			
	6 7		192.168.1.4	80	ONVIE		1e:a4:d4		*	
	1		92.168.1.12	80	ONVIF	00:30:4	4f:a2:8b	:03	•	
	Se	arch	Add	Quick Add		F	Protocol All			-
		d dev		GUICK	Nuu		10100001	~		
	1		hannel	IP Addr		Protocol	Edit	Delete		
	1		1	192.168.	1.42	NETIP	•	×		
									2	
	De	lete	Manual Ad	d				AutoS	Search	<u>~</u>
							ОК		Cancel	

Picture 5.53 Single Link Page of Digital Channel

Channel	Select channel title
Enable	When the digital channel is enabled, user is able to configure related settings for the channel.
Time Synchronization	When the function is enabled, the time of channel will be the same as the device.
Connection Mode	Can be singly connected or in multi-link mode. In multi-link mode, it can connect to several devices, and the device will be displayed one by one. Tour interval can be set no less than 10s.
Delete	If you want to remove the device, you can select specific device and click the delete button.
Add	Click the add button to add new device.



		Remote acce	ss configuration	
Char	nnel	1		•
Time	synchronization	V		
Prote	ocol	NETIP		-
Devi	се Туре	IPC		
Strea	am	Main Stream		
Rem	ote access	1		
Devi	ce address	192.168.1.42		
Port		34567		
User	name	admin		
Pass	sword			
8	Туре		Set	
1	Device inform	ation	•	K
2	System tir		۰	
3	Remote reboot		•	
4	Restore default		•	
5	Video encode		•	
6 7	Color settin Machine Na		•	
	Machine Na	ame	•	
			Delete Binding OK	Cancel

Picture 5.54 Remote Channel Configuration

Configure Name	Default configuration title of the device. User can modify it if necessary.			
Device Type	Default is IPC			
Protocol	Default is NETIP			
Remote Channel	User can input remote channel title from the device that you want to connect remotely			
Stream	Default is main stream			
Device Address	IP address of device.			
Port	Default is 34567			
User Name	Default is admin			



After clicking the Search button, the list will show all the devices in the network. User can choose any device that you prefer.

			Ca	mera						
Camera Manage≯	Onlin	e Equ	ipment							
Channel Status	22		IP Address	Port	Protocol		MAC		Add	
	1		92.168.1.125	34567	NETIP	00:30:4			•	^
Channel Type	2		92.168.1.194		NETIP	00:30:4			•	
	3		92.168.1.204	34567	NETIP	00:30:4			•	
	4		92.168.1.210			00:30:4			•	
	5		92.168.1.217			00:30:4			•	
	6		92.168.0.19	80	ONVIF	00:00:0				
	7		192.168.1.4	80	ONVIF	00:0e:a	e:a4:d	4:8c	۰	
	<	_	4							V
	Se	arch	Add	Quick	Add	F	Protoco	I All		•
	Adde	d dev	ice							
	0	Ch	nannel	IP Addr	855	Protocol	Edit	Delet	te	
	<		1							
				a				A # a	Search	
	De	lete	Manual Ad	a			ОК	Auto	Cance	

Picture 5.55 Device Searched List

Channel Status:

Channel status is to show the status of all digital channels which are connected. The status information includes channel, maximum resolution, frame rate and connection status. For example, the channel status for 8+8 mode (16-ch Hybrid mode) is shown below.

Camera Manage	Channel	Max. resolution	Resolution	Frame Ra
	CAM01	1080P	Unknown	Unknow
Channel Status 🔉	CAM02	1080P	Unknown	Unknow
	CAM03	1080P	Unknown	Unknow
Channel Type	CAM04	1080P	Unknown	Unknow
	CAM05	1080P	Unknown	Unknow
	CAM06	1080P	Unknown	Unknow
	CAM07	1080P	1080P	30
	CAM08	1080P	Unknown	Unknow
	D09	1080P	Unknown	
	D10	1080P	1080P	
	D11	1080P	Unknown	
	D12	1080P	Unknown	
	D13	1080P	Unknown	
	D14	1080P	Unknown	
	D15	1080P	Unknown	
	D16	1080P	Unknown	
	<			>

Picture 5.56 Channel Status

When a channel is added to device but it is not enabled, you will see as shown below.

		Camera		
Camera Manage	Channel	Max. resolution	Resolution	Frame Ra
	D01	1080P	1080P	-
Channel Status >	D02	1080P	Unknown	
	D03	1080P	Unknown	
Channel Type	D04	1080P	Unknown	
	D05	1080P	Unknown	
	D06	1080P	Unknown	
	D07	1080P	Unknown	
	D08	1080P	Unknown	
	<			>
				Cancel

Picture 5.57 Resolution Status

Channel status interface is in full digital mode; the first channel with 5MP resolution is disconnected because of resolution limitation (1080p).

	Ca	mera	
Camera Manage Channel Status > Channel Type	Resolution Unknown Unknown Unknown Unknown Unknown Unknown Unknown	Frame Rate - - - - - - - - - - - - -	Connection Status Resolution error Unknown Unknown Unknown Unknown Unknown Unknown Unknown
	<		ılı > Cancel

Picture 5.58 Connection Status



When the current resolution is over the max resolution that the channel supports, then a red "Out of Resolution" will be shown on the preview image.



Channel Type:

			Camera						
Camera Manage		Analog channels Digital channels							
Channel Status		80P 1080N	720P	D1	1080P	960P	720P	D1	
		16 .							
Channel Type 🔉		12 . 8 .			4				
		4.			12				
	2				16				
	Maxim	um Playbacł	k large: 8						
					ок	Canc	el A	pply	

Picture 5.59 Channel Type



In this series of product, the HDVR provides full analog channel mode, hybrid mode and full digital mode in channel type. Different models have different channel modes. User can shift the mode freely if necessary.

5.11 Logout

In logout setup interface, it comes with logout, shutdown and reboot functions. You can use the desktop shortcut menu or enter [main menu].

	Logout	
Logout	-	
Logout Shutdown Reboot		
	ОК	Cancel

Picture 5.60 Logout, Shutdown, Reboot

Hybrid Digital Video Recorder H.265 HDVR series



Logout	Press to log out; password is needed to re-enter.				
Shutdown	Press to turn off the system after three seconds. Cancel midway is of no effect.				
Reboot	Press to reboot the system.				



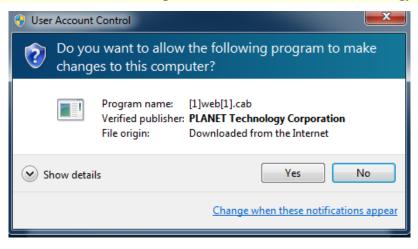
Chapter 6. Web Remote Management

The HDVR is able to be viewed from Internet Explorer when the network is available. You can have live view, playback and most of the functions that are the same as those of the HDVR system.

6.1 Connecting to HDVR

For first-time connection, you need to install the ActiveX control if it appears on your web page shown below:

🕖 This website wants to install the following add-on: 'web.cab' from 'PLANET Technology Corporation'.



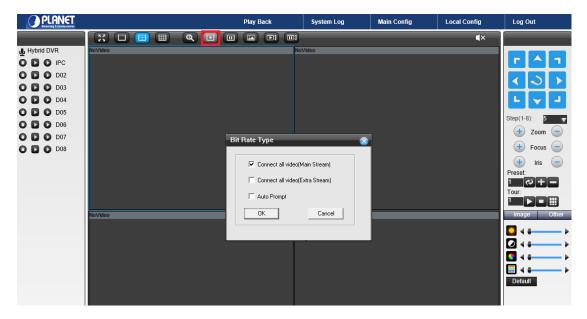
After the ActiveX component is installed, login the system on pop-up window.

PLAN Networking & Co	JET		
Networking & Co	mmunication		
	Username:	admin	
	Password:		
		0	Login

Please login your username and password. When you click "connect all video" button, you will



see the "Bit Rate Type" window shown below:

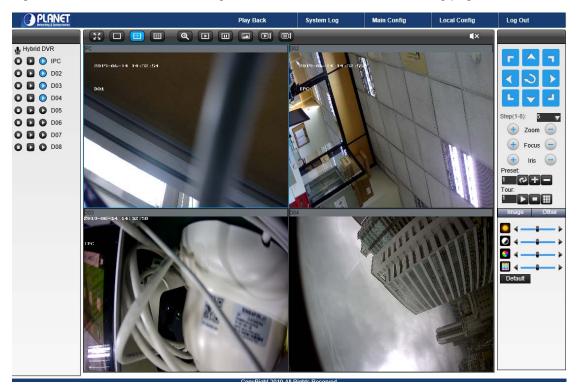


You may select bit rate type you would like to view on your computer. The bit rate type can impact bandwidth consumption on IE.



6.2 Live View on Browser

On the main page, the Web user interface provides playback, log, main config, local config and logout functions. All the main settings of the device are on the main config page.





Appendix A: Ping IP Address

The ping (Packet Internet Groper) command is used to detect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It's also a very useful tool to confirm whether or not Internet camera is installed or if the IP address conflicts with any other device over the network.

If you want to make sure the IP address of Internet camera, utilize the ping command as follows:

- Start a DOS window.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the Internet camera.

The replies, as illustrated below, will provide an explanation to the problem.



If you want to detect any other device that conflicts with the IP address of Internet camera, you also can utilize the ping command but you must disconnect the Internet camera from the network first.



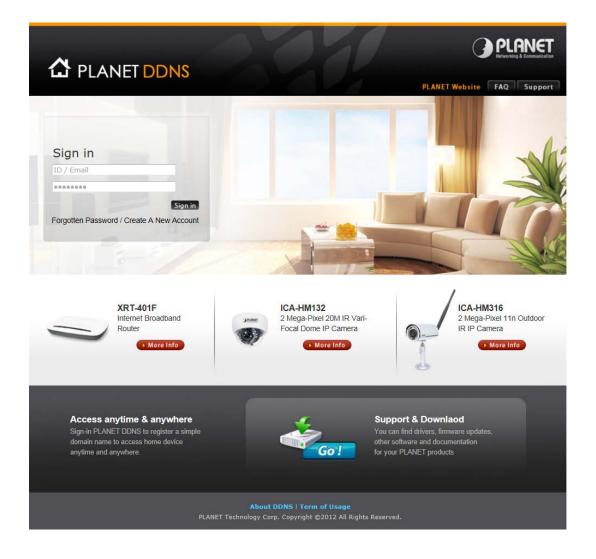
Appendix B: Planet DDNS Application

Configuring PLANET DDNS Steps:

Step 1 Visit DDNS provider's web site and register an account if you do not have one yet. For example, register an account at <u>http://planetddns.com</u>

Step 2 Enable DDNS option through accessing web page of the camera.

Step 3 Input all DDNS settings.







Appendix C: Configuring Port Forwarding Manually

The device can be used with a router. If the device wants to be accessed from the WAN, its IP address needs to be set up as a fixed IP address. The port forwarding or Virtual Server function of router also needs to be set up. This device supports UPnP traversal function. Therefore, user could use this feature to configure port forwarding of NAT router first. However, if user needs to configure port forwarding manually, please follow the steps below:

Manually installing the device with a router on your network is an easy 3–step procedure as follows:

- 1. Assign a local/fixed IP address to your device
- 2. Access the router with your web browser
- 3. Open/Configure virtual server ports of your router

1. Assigning a local/fixed IP address to your device

The device must be assigned a local and fixed IP address that allows it to be recognized by the router. Manually set up the device with a fixed IP address, for example, 192.168.0.100.

2. Accessing the Router with Your Web browser

The following steps generally apply to any router that you have on your network. PLANET WNRT-620 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's **Quick Installation Guide**. If you have cable or DSL service, you will most likely have a dynamically assigned WAN IP address. 'Dynamic' means that your router's WAN IP address can change from time to time depending on your ISP. A dynamic WAN IP address identifies your router on the public network and allows it to access the Internet. To find out what your router's WAN IP address is, go to the **Status** screen on your router and locate the WAN information for your router.

As shown on the following page the WAN IP address will be listed. This will be the address that you will need to type in your web browser to view your camera over the Internet. Be sure to uncheck the **Reset IP address at the next boot** button at the top of the screen after modifying the IP address. Failure to do so will reset the IP address when you restart your computer.



	Home General Setup Status Tool Internet Broadband Router
 Status Internet Connection Device Status System Log Security Log Active DHCP Client Statistics 	Internet Connection View the current internet connection status and related information. Attain IP Protocol : Dynamic IP disconnect IP Address : Subnet Mask : Default Gateway : 0.0.0 MAC Address : 00:11:22:33:44:56 Primary DNS : Image: Connect Conn
	Secondary DNS :

Your WAN IP address will be listed here.

3. Opening/Setting Virtual Server Ports to enable remote image viewing

The firewall security feature is built into the router and most routers prevent users from accessing the video from the device over the Internet. The router connects to the Internet over a series of numbered ports. The ports normally used by the device are blocked from access over the Internet. Therefore, these ports need to be made accessible over the Internet. This is accomplished using the **Virtual Server** function on the router. The Virtual Server ports used by the camera must be opened through the router for remote access to your camera.

Follow these steps to configure your router's Virtual Server settings

- Click Enabled.
- Enter a unique name for each entry.
- Select Both under Protocol Type (TCP and UDP)
- Enter your camera's local IP address (**192.168.0.100**, for example) in the **Private IP** field.
- If you are using the default camera port settings, enter 80 into the Public and the Private Port section and click Add.

A check mark appearing before the entry name will indicate that the ports are enabled.



Some ISPs block access to port 80. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the port the camera uses from 80 to something else, such as 8080. Not all routers are the same, so refer to your user manual for specific



instructions on how to open ports.

PLANET	Home General Setup Status Tool
Interaction & Contensature	Internet Broadband Router
 System WAN LAN Wireless QoS NAT Port Forwarding Virtual Server Special applications UPnP Setting ALG Settings Firewall 	Virtual Server Image: Comment in the server ser

Enter valid ports in the **Virtual Server** section of your router. Please make sure to check the box on this line to enable settings. Then the device can be accessed from WAN by the router's WAN IP address.

By now, you have finished your entire PC configuration for this device.