

## Hardware Manual

VDH-DXE836C



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	1. DXE836C			



#### A. CAUTION

To our dear customer!

Thank you for using our products. If you encounter any problems when using, please do not hesitate to contact our resellers. We will provide excellent services to you via our resellers.

The software/hardware improvements of this series are subject to change without notice to you in advance. Before using, please read this user manual carefully to ensure that you can use the device correctly and safely.

#### Caution for this DVR series

- Do not allow any solid object or liquid fall into or penetrate into the device.
- Use cleaning tools (brushes) regularly to clean circuit boards, connectors, chassis, etc. Before cleaning, turn off the power and unplug the power.
- Do not attempt to disassemble the equipment, repair, or replace parts. In case the machine does not work properly, please contact the resellers or manufacturers. In the shortest time, we will solve the problems you have during using.
- When not using the remote control for a long time, take out the inside battery
   To prevent the control from the damage coming from battery leakage!
- If this equipment connects to outdoor cameras or other external alarm devices, ground this equipment to prevent it from electrical surges.
- This DVR supports remote video monitoring via Internet. Free or non-free domain names provided by ISPs are needed for the monitoring functions.
   Free domain names may sometimes have problems and nothing to do with DVR. Non-free domain names have less problems. Choose the domain names carefully before using the networking function.

#### Operating environment

- Keep and use this device at places where temperature ranges 0°C~40°C. Avoid direct sunlight or near heat sources.
- Do not install this equipment in a humid environment
- Do not expose this equipment in smoky, dusty environments;
- Avoid strong collision, do not drop the machine
- Keep the installation level, install in a stable place, avoid the product falling;
- Do not block any ventilation openings. And ensure well ventilation around the machine
- Please use this equipment within rated input and output current/voltage range.
- This device is for long-time use. For safety, do not have flammable items placed next to the device.

#### **B.** Introduction

1. Product Overview

This equipment is an excellent digital surveillance product designed specifically for the security use. Using embedded LINUX operating system, it



makes the system more stable. Using standard H.264 video compression and G.711A audio compression technology achieves audio and video functions such as high-quality, low bit rate and single-frame playback. Using TCP / IP and other network technologies, it provides strong network data transmission capacity and remote control capabilities.

This equipment can be used individually or be connected to form a powerful security monitoring network. Using professional network video surveillance software platform, be fully experienced the powerful networking and remote monitoring capabilities.

This equipment can be used for security in banks, telecommunications, power stations, justice, transport, intelligence communities, factories, warehouses, resources, water conservancy facilities and other categories.

#### 2. Main functions

- Pentaplex Operation: which can Record / Playback / Remote Connection / mobile phone watch / video backup
- Support 4 / 8 fixed internal Hard Drives, single hard drive can be up to 6TB.
- Support RAID recording to protect important video data.
- Support HD output (1920x1080)
- Support real-time recording and playback
- Smart function: Motion detection area can be divided into 192(16x12) sub-areas.
- Support IE/Firefox/Safari. On-line recording/playback and user management are available.
- Support HTTP, DHCP, DDNS, NTP, SMTP, FTP, DNS, UPNP, PPPoE, IP rights, IP search and other Internet services
- Support iPhone, Android, including live video monitoring, playback.
- Support CMS(Central Management System)
- Back-up to USB storage at the same time when recording
- Support analog/digital modes to record analog/digital signals at the same time



#### C. Unpacking

#### 1. Accessories

- ★ Power cable and adaptor AC110-240V 150W x 1PCS (4HDD) Power cable and adaptor AC110-240V 350W x 1PCS (8HDD)
- ★ hard disk screws x 16PCS (4HDD) hard disk screws x 32PCS (8HDD)
- ★ Mouse x 1pcs

#### 2. Unpacking

When you receive the product, check first whether the packing of the equipment has obvious damage. The protective material used for the package during transport can cope with most of the accidental impact. Then, take out the device, remove the protective film of the digital video recorder and check if there is any visible damage; Finally, open the case, check the front panel data cable, power cord, power supply motherboard to see if they are connected firmly.

#### ■ Front/Rare panels

The key functions of the front panel and the interfaces of the rear panel are described in detail in the manual.

Please carefully check the plate or foil on the rear panel of the product to see if it is the model you ordered.

#### ■ Inside check

In addition to checking for visible signs of damage, be careful to check the connections between the front panel data cable, power cord and motherboard.

#### D. Installation

Steps and cautions:

- 1 . Room temperature below 35°C
- 2 \ Reserve space for air circulation around 15 cm (6 inches)
- 3 · Chassis installation starts from bottom to up
- 4 \ With multiple components in the chassis, take precautions to avoid overloading to the power outlet.



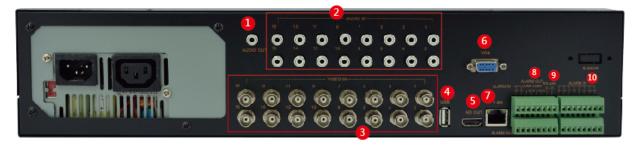
### **E.** Product appearance

#### 1. Front Panel



<sub>U</sub>	POWER Indicator	POWER Indicator	
品	LAN Indicator	LAN Indicator	
0	REC Indicator	DVR REC Indicator	

## Rear Panel 4HDD



8HDD

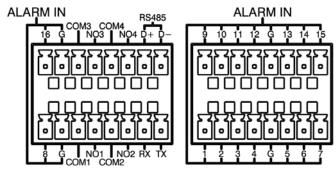


1	Audio Output
2	Audio Input
3	Video Input
4	USB Mouse Port
5	HD Digital Output
6	VGA output
7	LAN Port
8	Alarm Output

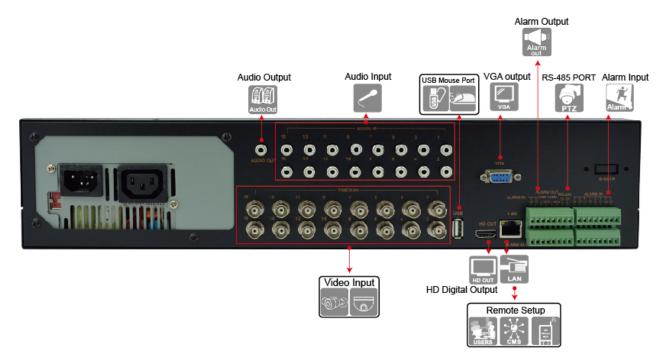


9	RS-485 Port
10	Alarm Input

Alarm In/Alarm Out/RS-485



#### 3. Installation Illustration



#### ■ Video input

Input interface is BNC type; input signal is PAL/NTSC BNC (  $1.0\text{VP-P} \cdot 75\Omega$  ) The Video signal should comply with national standards, a higher signal to noise ratio, low distortion, low-interference; clear images, no deformation, nature color and appropriate brightness.

◆ Make sure stable and reliable signals from cameras

Cameras should be installed in a suitable position to avoid backlighting,
low-light environment, or adopts the better BLC, low-light cameras.

Cameras and digital video recorders should be common ground, stably and reliably, in order to ensure the normal operation of the cameras.



◆ Make sure the transmission cables are stable and reliable Adopt high-quality, well-shielded coaxial cables, and choose the right model based on the transmission distance. If the distance is too far, use shielded twisted pair, video compensation equipment, optical transmission and other ways to ensure signal quality based on the specific circumstances. Video cable should avoid strong electromagnetic interference with other devices and circuits, in particular, should avoid the current of high voltage.

#### Make sure the connectors well-connected:

Cables and shielded cable should be well-connected firmly to avoid false, joint welding or oxidation.

#### Connections for video outputs

The video outputs include PAL/NTSC BNC(1.0VP-P  $\cdot$  75 $\Omega$ ), VGA and HD OUT interfaces.

Pay attention to the following when you select a PC display instead of a monitor.

- 1. Do not remain switched on for a long time to extend the life of the equipment;
- 2. Regular degaussing will help to maintain the normal operation of the monitor.
- 3. Keep away from equipment with strong electromagnetic interference.

Using TV as video output device is an unreliable alternative. It is also required to minimize the time of use and strictly control the power, the interference caused by neighboring devices. Leakage risks of low quality TVs may result in damage to other equipments.

#### Audio Inputs

Voice input impedance is high, so the microphone must be a microphone connected to the power supply.

Like video input, voice transmission cables should avoid interference, fake, poor contact, and special attention to prevent the current of the high-voltage.

#### Audio Output

The audio output parameters of DVR are generally greater than 200mv  $1K\Omega$  (BNC), you can directly connect to the low impedance headphones, powered speakers or other sound devices through a power amplifier.

When the external speakers and microphones can not achieve spatial segregation, it is prone to the phenomenon of whistling.



You may adopt the following actions,

- 1. Using better directional microphones
- 2. Adjust the speaker volume to make it lower than the value of the generated howling.
- 3. Using sound-absorbing materials for decoration to reduce sound reflections and improve the acoustic environment;
- 4. Adjusting the layout of the microphone and speakers can reduce the whistling.

#### ■ RS-485 connection

- Connect RS-485 cable of the speed dome to the RS-485 interface of DVR, pay attention to the positive and negative signals.
- 2. Connect the video output cable of the speed dome to the DVR video input

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#### F. Q & A and Maintenance

#### 1. Q&A

Q 1. After power on, DVR doesn't work.

A: The possible causes:

- 1. Wrong power input
- 2. bad connection of power cable
- 3. Power error
- 4. Firmware update error
- 5. Disk error or cable problem
- 6. Front panel error
- 7. Main PCB board error
- Q 2. After power-on, DVR will restart after several minutes or the screen freezes.

A: The possible causes:

- 1. Unstable or low input voltage
- 2. The hard drive has bad sectors or cable error
- 3. Low adaptor power
- 4. Front video signal not stable
- 5. High temperature, too much dust and the machine runs in a bad condition
- 6. DVR hardware error

#### Q 3. HDD not found after power-on

A: The possible causes:

- 1. No power for the Hard Drive
- 2. Hard Drive cable error
- 3. Hard Disk error
- 4. Main board SATA slot error

#### Q 4. No output: Single, multiple or all channels

A: The possible causes:

- 1. Wrong firmware: Update to the right firmware
- 2. Brightness set to 0: set it to the default value
- 3. No signal input or signal too weak
- 4. Mask used
- 5. DVR hardware error

Q 5. Live video problems: Such as bad colors, brightness error, image blink... A: The possible causes:

1. When using BNC as output, wrong NTSC/PAL matching will result in



B/W image.

- 2. Impedance mismatch between digital video recorder and monitor.
- 3. Video transmission distance is too far or video transmission line attenuation is too much
- 4. Wrong settings of colors, brightness in the DVR

#### Q 6. No recorded file in local side

A: The possible causes:

- 1. Wrong data cable or jumper error in the harddisk
- 2. Hard Disk error
- 3. Upgraded firmware can not recognize the existing file system
- 4. Desired files are overwritten
- 5. Recording not enabled

#### Q 7. Bad image when playback

A: The possible causes:

- 1. Low recording quality
- 2. Once data error when reading or small bit-rate or fuzzy when playback, please reboot machine.
- 3. Wrong data cable or jumper error in the harddisk
- 4. Hard Disk error
- 5. DVR hardware error

#### Q 8. No audio sound

A: The possible causes:

- 1. Not powered-microphone
- 2. Not powered-speaker
- 3. Audio cable error
- 4. DVR hardware error

#### Q 9. Live video with audio, but no sound when playback

A: The possible causes:

- 1. Wrong setting: audio not enabled
- 2. No video to the paired channels; when the screen is blue, playback will be choppy.
- Q 10. Wrong time

A: The possible causes:

- 1. Wrong setting
- 2. Bad battery connection or low voltage
- 3. Bad frequency oscillator

#### Q 11. DVR can not control PTZ



#### A: The possible causes:

- 1. PTZ error
- 2. Wrong settings, cabling and installation for the PTZ
- 3. Wrong wiring
- 4. Wrong PTZ settings in the DVR side
- 5. Protocols mismatch between PTZ and DVR
- 6. Mismatch between PTZ decoder and DVR ID address
- 7. When connected to several decoders, the farthest AB line of PTZ decoder must add a 120 ohm resistor to eliminate reflection and impedance matching, otherwise it will make PTZ unstable.
- 8. Distance beyond limitation

#### Q 12. Motion detection not function

A: The possible causes:

- 1. Wrong schedule settings
- 2. Wrong area settings
- 3. Low sensitivity
- 4. Hardware limitation for different version

#### Q 13. Fail to login by using client software or Web browsers

#### A: The possible causes:

- 1. Operating system is Win98 or Win Me and the client software can not be installed or displayed normally; Upgrade the operating system to Win2000sp4 or above, or use lower versions of the client software.
- 2. ActiveX control blocked; install the ActiveX control in the attached CD.
- 3. DX8.1 or above not installed; upgrade the display driver.
- 4. Networking error
- 5. Wrong Networking settings
- 6. Wrong user/password
- 7. Wrong client software for the DVR firmware

#### Q 14. Mosaic or no video when Network preview and file playback

A: The possible causes:

- 1. Network traffic jam
- 2. Bandwidth limitation in the DVR side
- 3. Group mode is used in the DVR networking setting. More mosaics in group mode, not recommended.
- 4. Masks or channel protection in DVR side
- 5. No rights for the user account
- 6. Bad DVR output

#### Q 15. Networking not stable

A: The possible causes:



- 1. Networking not stable
- 2. IP conflict
- 3. MAC conflict
- 4. LAN card error (PC/DVR)

#### Q 16. USB backup error

A: The possible causes:

- 1. CPU too busy to back up the data! Stop recording then backup!
- 2. Device not compatible
- 3. Backup device error

#### Q 17. DVR can not be controlled by the keyboard

A: The possible causes:

- 1. DVR has wrong port setting
- 2. Wrong address
- 3. Low power for use; each adaptor need to be powered.
- 4. Transmission distance is too far

#### Q 18. The remote controller can not work

A: The possible causes:

- 1. Wrong control address
- 2. Long distance or poor angle
- 3. Battery run out
- 4. Controller or DVR front panel is out of order

#### Q 19. Short recording time

A: The possible causes:

- 1. Bigger data rate from poor camera quality, dirty lens, backlight installation, bad aperture adjustment.
- 2. Small HDD storage
- 3. HDD damage

#### Q 20. Download files can not be played back.

A: The possible causes:

- 1. No player
- 2. No graphic accelerator with DX8.1 or above
- 3. Save as AVI files and play with MEDIA PLAYER

#### Q 21. Forget the administrative password or Internet password

A: The possible solution:

1. Please contact local customer service staff or call the customer service phone headquarters, we will guides you how to solve by the machine type and version of the program.



#### 2. Maintenance

- Damped dust on the PCB board will cause a short circuit and will do something wrong to the DVR or damage it. For long-term stability of the DVR, regularly brush the circuit boards, connectors, chassis to remove dust.
- Please ensure the project is well-grounded, so images, audio signal will not be disturbed. At the same time, we can protect the DVR from static or inductive voltage damage.
- Do not remove audio/video cables and RS-484 when the DVR is powered on, or they will be damaged.
- Do not use the TV interface in the DVR video output (VOUT), or the DVR output circuit will be damaged easily.
- Keep the DVR away from heats and hot places.
- Keep the DVR chassis well-ventilated for better heat dissipation.
- Have regular checks and system maintenance •



# G. Appendix : Specifications 1. DXE836C

Input	BNC	16CH Input / BNC(1Vp-p 75Ω)	
Output	VGA Resolution	Yes	
	High Definition(HD)	Yes	
Input		16CH Input (W/ 2-Way Audio)	
Output		1CH Output	
Audio Com	pression	G.711A	
Sensor Inpu	ut	16CH Input, Normal Open/ Close	
Alarm Outp	out	Sensor, Motion, Video Loss · 4CH Output	
Resoluation		4M	
Digital Zoom		Area selected by mouse dragging	
Auto Seque	ence Duration	5-120 sec	
Video Compression		H.264	
Resolution		Each Channel can individual setup for	
		AHD-M/AHD-L/D1/CIF	
Frame		16CH 4M @15FPS/CH(NTSC);	
		16CH 4M @15FPS/CH(NTSC)	
Recoding C	Quality	Lowest, Low, Normal, Good, High, Highest	
Recording	Mode	Continuous/ Schedule/ Motion/ Alarm/ Manual	
Motion Det	tection	Zones: 192(16×12 grid)	
Pre-Record		1-30 sec	
Post-Recording		10 ~ 300 sec	
		Single, Quad, 8-Split, 9-Split, Sequence	
File Format		AVI / use defined format	
Media Interface		USB/Network	
Player Software Automatic		YES	
backup			
Dual Strear	n	4M/1080P/D1/CIF	
Playback		YES	
Communic	ation Protocol	HTTP · DHCP · DDNS · NTP · SMTP · FTP ·	
		DNS、UPNP、PPPoE、IP Authority、IP Search	
Browser		IE	
Browser(single channel display)		Firefox · Safari	
HDD	Interface	SATA	
	Maximum support	Maximum 6TB HDD	
	capacity		
	capacity Internal HDD	4 pcs 8 pcs	
Mirror		4 pcs 8 pcs YES	
	nput Dutput Audio Com Sensor Input Alarm Outp Resoluation Digital Zoo Auto Seque /ideo Com Resolution Frame Recoding C Recording Motion Det Pre-Record Post-Record File Format Media Inter Player Soft Dackup Dual Stream Playback Communic Browser Browser(sin	Dutput Dutput Dutput Dutput Dutput Dutput Dutput Audio Compression Digital Zoom Auto Sequence Duration Digital Zoom Digital Zoom Digital Zoom Auto Sequence Duration Digital Zoom Digital	



Simultaneous recording					
S.M.A.R.T HDD error detecting  User Menu Display GUI interface ; VGA & & HD outsimultaneously Interface Input Method Remote Controler(Option)/ Mouse  Serial PTZ & Controller Pelco-D / Pelco-P ( RS-485)  Interface  Network Ethernet 1*RJ-45, 10/100 Base-T  Web Monitoring Live, Search/Playback, Backup, PTZ, Remote Setup/Upgrade  Features Daylight Saving Time (DST) Yes  Internal Buzzer Motion · Alarm · Video Loss · HDD Error  Multi Language Yes (more than 20 languages)  Firmware Update USB, Network Remote Upgrade  Network Time Protocol (NTP) Yes  Intelligent Video Analytics YES. Motion detection, removals, entry/exiting detection  Central Management Yes  Software(CMS)  Hybrid( Digital & Analogue) Yes  General Operating Environment Temperature 0~46°C, Humidity: 20~80%  Power Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight About 5.4kg (Without HDD and Power Adapter)  Power Adapter)			simultaneous recording		
User   Menu Display   GUI interface; VGA & & HD outsimultaneously		File System	Stable and reliable self-developed file system		
Interface   Input Method   Remote Controler(Option)/ Mouse		S.M.A.R.T	HDD error detecting		
Serial   PTZ & Controller   Pelco-D / Pelco-P ( RS-485)	User	Menu Display	GUI interface; VGA & 8	& HD outsimultaneously	
Interface   Ethernet	Interface	Input Method	Remote Controle	er(Option)/ Mouse	
Ethernet		PTZ & Controller	Pelco-D / Pel	Pelco-D / Pelco-P ( RS-485)	
Web Monitoring  Live, Search/Playback, Backup, PTZ, Remote Setup/Upgrade  Yes  Internal Buzzer  Motion · Alarm · Video Loss · HDD Error  Multi Language  Firmware Update  Network Time Protocol (NTP)  3G Mobile Phone  Intelligent Video Analytics  Central Management  Software(CMS)  Hybrid( Digital & Analogue)  General  General  Web Monitoring  Live, Search/Playback, Backup, PTZ, Remote Setup/Upgrade  Yes  Motion · Alarm · Video Loss · HDD Error  Yes (more than 20 languages)  Firmware Update  USB, Network Remote Upgrade  Network Time Protocol (NTP)  Yes  iPhone, Android, Mobile App supports Live video & audio, and playback.  YES. Motion detection, removals, entry/exiting detection  Yes  General  Operating Environment  Temperature 0~46°C, Humidity: 20~80%  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W Output: 350W  Weight  About 5.4kg About 6kg (Without HDD and Power Adapter) Power Adapter)		Ethernet	1*PL 45 10/100 Page T		
Features  Daylight Saving Time (DST) Internal Buzzer Motion ` Alarm ` Video Loss ` HDD Error Multi Language Yes (more than 20 languages) Firmware Update Network Time Protocol (NTP)  3G Mobile Phone iPhone, Android, Mobile App supports Live video & audio, and playback.  Intelligent Video Analytics Yes. Motion detection, removals, entry/exiting detection  Central Management Software(CMS) Hybrid( Digital & Analogue)  General  Operating Environment Temperature 0~46°C, Humidity: 20~80% Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W Output: 150W Weight About 5.4kg (Without HDD and Power Adapter) Power Adapter)	INCLWOIK		+		
Features   Daylight Saving Time (DST)   Yes   Internal Buzzer   Motion \ Alarm \ Video Loss \ HDD Error   Multi Language   Yes (more than 20 languages)   Firmware Update   USB, Network Remote Upgrade   Network Time Protocol (NTP)   Yes    3G Mobile Phone   iPhone, Android, Mobile App supports Live video & audio, and playback.   Intelligent Video Analytics   YES. Motion detection, removals, entry/exiting detection   Central Management   Yes   Software(CMS)   Hybrid( Digital & Analogue)   Yes    General   Operating Environment   Temperature 0~46°C, Humidity: 20~80%   Power   Input: 115/240VAC,		Web Monitoring			
Internal Buzzer  Motion \ Alarm \ Video Loss \ HDD Error  Multi Language  Firmware Update  Network Time Protocol (NTP)  3G Mobile Phone  IPhone, Android, Mobile App supports Live video & audio, and playback.  Intelligent Video Analytics  Central Management  Software(CMS)  Hybrid( Digital & Analogue)  General  Operating Environment  Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W  Weight  About 5.4kg (Without HDD and Power Adapter)  Motion \ Alarm \ Video Loss \ HDD Error  Yes  Motion \ Alarm \ Video Loss \ HDD Error  Yes  Notion detection, removals, entry/exiting detection  Yes  Temperature 0 \(^46^{\circ}C\), Humidity: 20 \(^80^{\sh}C\)  Notion detection  Yes  Output: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight  About 5.4kg About 6kg (Without HDD and Power Adapter)	F t	Dealish Coning Time (DCT)			
Multi Language Firmware Update Network Time Protocol (NTP)  3G Mobile Phone IPhone, Android, Mobile App supports Live video & audio, and playback.  Intelligent Video Analytics Central Management Software(CMS) Hybrid( Digital & Analogue)  General  Operating Environment  Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight  About 5.4kg (Without HDD and Power Adapter)  Wes  Ves  Notion detection, removals, entry/exiting detection  Yes  Temperature 0~46°C, Humidity: 20~80%  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight About 5.4kg (Without HDD and Power Adapter) Power Adapter)	reatures				
Firmware Update  Network Time Protocol (NTP)  3G Mobile Phone  iPhone, Android, Mobile App supports Live video & audio, and playback.  Intelligent Video Analytics  Central Management  Software(CMS)  Hybrid( Digital & Analogue)  General  Operating Environment  Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight  About 5.4kg (Without HDD and Power Adapter)  Nes Supports Live video & audio, Mobile App supports Live video & audio, and playback.  YES. Motion detection, removals, entry/exiting detection  Yes  Temperature 0~46°C, Humidity: 20~80%  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight  About 5.4kg (Without HDD and Power Adapter)					
Network Time Protocol (NTP)  3G Mobile Phone iPhone, Android, Mobile App supports Live video & audio, and playback.  Intelligent Video Analytics  Central Management Software(CMS) Hybrid( Digital & Analogue)  General Operating Environment Power Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W  Weight About 5.4kg (Without HDD and Power Adapter)  Nes  iPhone, Android, Mobile App supports Live video & audio, and playback.  YES. Motion detection, removals, entry/exiting detection  Yes  Intelligent Video Analytics  Yes  Temperature 0~46°C, Humidity: 20~80% Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight About 5.4kg (Without HDD and Power Adapter)					
iPhone, Android, Mobile App supports Live video & audio, and playback.  Intelligent Video Analytics  Central Management Software(CMS)  Hybrid( Digital & Analogue)  Yes  General  Operating Environment  Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W  Weight  About 5.4kg (Without HDD and Power Adapter)  iPhone, Android, Mobile App supports Live video & audio, and playback.  YES. Motion detection, removals, entry/exiting detection  Yes  Input: 115/240VAC, Humidity: 20~80%  Input: 115/240VAC, S/4A, 50-60Hz, Output: 350W  Weight  About 5.4kg (Without HDD and Power Adapter)		·	+		
Readio, and playback.  Intelligent Video Analytics  Central Management Software(CMS) Hybrid( Digital & Analogue)  General  Operating Environment Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W  Weight About 5.4kg (Without HDD and Power Adapter)  Reading, and playback.  YES. Motion detection, removals, entry/exiting detection  Yes  Temperature 0~46°C, Humidity: 20~80%  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight About 5.4kg (Without HDD and Power Adapter)		Network Time Protocol (NTP)	Yes		
Intelligent Video Analytics  YES. Motion detection, removals, entry/exiting detection  Central Management Software(CMS)  Hybrid( Digital & Analogue)  Yes  General  Operating Environment  Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W  Weight  About 5.4kg (Without HDD and Power Adapter)  Femperature 0~46°C, Humidity: 20~80%  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight  About 6kg (Without HDD and Power Adapter)		3G Mobile Phone			
Central Management   Yes					
Central Management Software(CMS) Hybrid( Digital & Analogue)  General Operating Environment Power Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W Output: 350W Weight About 5.4kg (Without HDD and Power Adapter) Over Adapter)  Central Management Yes Yes  Temperature 0~46°C, Humidity: 20~80% Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W Output:		Intelligent Video Analytics	YES. Motion detection, removals, entry/exiting		
Software(CMS) Hybrid( Digital & Analogue)  General Operating Environment Power Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W Output: 350W  Weight About 5.4kg (Without HDD and Power Adapter) Operating Environment Femperature 0~46°C, Humidity: 20~80% Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W Output:			detection		
Hybrid( Digital & Analogue)  General  Operating Environment  Power  Input: 115/240VAC, 8/4A, 50-60Hz, Output: 150W  Weight  About 5.4kg (Without HDD and Power Adapter)  Hybrid( Digital & Analogue)  Yes  Temperature 0~46°C, Humidity: 20~80% Input: 115/240VAC, 8/4A, 50-60Hz, Output: 350W  Weight  About 5.4kg (Without HDD and Power Adapter)		Central Management	Yes		
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Power Input: 115/240VAC, 8/4A, 50-60Hz, 8/4A, 50-60Hz, Output: 150W Output: 350W  Weight About 5.4kg About 6kg (Without HDD and Power Adapter) Power Adapter)		Hybrid( Digital & Analogue)	Yes		
8/4A, 50-60Hz, 8/4A, 50-60Hz, Output: 150W Output: 350W  Weight About 5.4kg About 6kg (Without HDD and Power Adapter) Power Adapter)	General	Operating Environment	Temperature 0~46°C, Humidity: 20~80%		
Output: 150W Output: 350W  Weight About 5.4kg About 6kg (Without HDD and (Without HDD and Power Adapter) Power Adapter)		Power	Input: 115/240VAC,	Input: 115/240VAC,	
Weight About 5.4kg About 6kg (Without HDD and (Without HDD and Power Adapter) Power Adapter)			8/4A, 50-60Hz,	8/4A, 50-60Hz,	
(Without HDD and Power Adapter) Power Adapter)			Output: 150W	Output: 350W	
Power Adapter) Power Adapter)		Weight	About 5.4kg	About 6kg	
			(Without HDD and	(Without HDD and	
20 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10			Power Adapter)	Power Adapter)	
Dimension		Dimension	446mm x 367mm x 102mm (W x D x H)		

<sup>★</sup>Product specifications are subject to change without notice; please contact us for the latest information.



## Manufacturer: **FUHO TECHOLOGY CO., LTD.**

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