

Product Specifications

H.265 4-ch 5-in-1 Hybrid Digital Video Recorder

HDVR-435

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2019/04/29	Simon Yeh	Initial release

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Reviewed by:	Jonas	Approved by:	Kent

1. PRODUCT DESCRIPTION

Efficient Solution for All Video Formats

PLANET HDVR-435 is a H.265 Hybrid DVR recorder which is 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 the 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 4-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 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 Savings

With H.265 compression technology, the HDVR-435 offers over 30% more of recording capacity than systems employing H.264 compression. This advance gives users larger storage space for longer durations of video recording.

Hybrid Integration

The HDVR-435 allows each of its 4 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 is definitely your ideal choice. In addition, as the HDVR complies with ONVIF, it is 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 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

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 simultaneously. With user-friendly graphic interface, users can control any cameras or HDVRs easily and make a quick response when an event is triggered. With CMS support, users are able to make surveillance more efficient.

2. PRODUCT FEATURES

Hardware

- Embedded, highly-reliable standalone HDVR
- Supports 4-ch BNC connectors
- Supports VGA/HDMI dual local display
- Supports one 3.5" SATA 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/Backup

- Simultaneous recording and live video streams
- Manual or scheduled recording of 4 cameras simultaneously
- Video recording 24/7 to continuously check 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

3. PRODUCT SPECIFICATIONS

3.1 Main Components

CPU: Hisilicon Hi3520D

RAM: 1GBytes

3.2 Functional Specifications

Product	HDVR-435
Hardware	
Ethernet	1 x RJ45, 10/100BASE-TX
BNC Interface	4
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
Power Requirements	12V DC, 2A
Consumption	15W (without HDD)
Weight	792 g
Dimensions (W x D x H)	253 x 242 x 40 mm
Camera	
Max. Channels	4-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-N (1080n)/AHD-M (720p)/D1
Encode Capacity	4 x 1080p@15fps
Decode Capacity	4 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
Motion Detection	Zones: 192 (16 x 12) detection zones Sensitivity: multi-level sensitivity (only local channels)
Cloud	P2P
Audio	
Audio Type	2-way
Audio Format	G.711A
Live View	
Display Division	1, 4
Snapshot	Video snapshot in JPEG format
Playback	
Record	Manual, Alarm, Motion Detection, Schedule
Local Playback	2-ch simultaneous playback; Supports up to 4-channel playback (local input mode)
Play Method	Play, Pause, Stop, Slow, Fast, Prev. Frame, Next Frame Search by time, calendar, event, channel
Download	Backup file to specific local 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 Event	
Event Type	System Events – <ul style="list-style-type: none"> ● No Disk ● Disk Error ● Disk Full ● Net Loss ● IP Conflict Camera Events – <ul style="list-style-type: none"> ● Motion Detection, Video Blind, Video Loss, Alarm Input, Alarm Output
Event Action	<ul style="list-style-type: none"> ● Show Message ● Buzzer ● Send e-mail ● FTP Upload
Management	
Remote Session	2 users are recommended
Privileges	Live View, Playback, System Configurations, Camera Configurations, Recording Configuration, Event Configuration, Maintenance
User Interface	<ul style="list-style-type: none"> ● Graphic local user interface (Operated by mouse) ● Web browser (IE) ● CMS utility
Log Type	All, System, Config, Storage, Alarm Event, Week Day, Account, Playback
Software Utility	Search utility, CMS, App
Environment	

Operating Temperature	-10~60 degrees C
Storage Temperature	-10~60 degrees C
Humidity	10~90% (non-condensing)

3.3 Physical Specifications

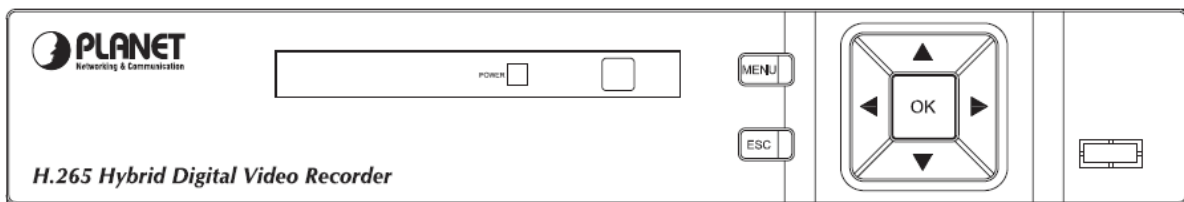
Dimensions (W x D x H)

253 x 242 x 40 mm

Weight

792 g (gross weight)

Front Panel



LEDs	Status	Definitions
Power	Red	System on

Buttons	Status	Definitions
Menu	Setup	Press to enter main menu
Esc	Return	Press to return to the previous page
Direction & OK	Control and Enter	Press to select and enter

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 DC, 2A
485+/485-	The interface of the alarm input, the alarm output and RS-485

3.4 Environmental Specifications

Operating Temperature	-10 ~ 60 degrees C
Operating Humidity	10 ~ 90% non-condensing
Storage Temperature	-10 ~ 60 degrees C
Storage Humidity	10~ 90% non-condensing

3.5 Electrical Specifications

Input Voltage	12V DC, 2A
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3.6 Regulatory Compliance

Power Consumption	15 watts (without HDD)
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3.7 Regulatory Compliance

FCC, CE

3.8 Basic Packaging

- 1 x HDVR
- 1 x Screw Kit
- 1 x Power Adapter
- 1 x Quick Installation Guide

3.9 Packaging Information

Dimensions (W x D x H)	345 x 275 x 75 mm
Weight	1092 g
Carton Dimensions (W x D x H)	432 x 350 x 482 mm
Carton Weight	7.64 kg
Carton Unit	7pcs. in one carton

APPENDIX A: DEFAULT SETTING

Default DHCP Client	On
Default IP Address	192.168.0.20 – if no DHCP server existed in the network
Default Login User Name	admin
Default Login Password	admin
Search Tools	H.265 HDVR Search Tool