Product Specifications

8-Ch Hybrid Digital Video Recorder

HDVR-830

Version 1.0

Change History:

Revision	Date	Author	Change List
Version 1.0	2014/10/03	Simon Yeh	Initial release

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1. PRODUCT DESCRIPTION

Efficient Solution for integrating IP and Analog Cameras

PLANET HDVR-830 is a hybrid DVR recorder which is able to record video and data from both traditional analog 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 series is the 8-channel Linux embedded system with HDMI local display and features recording, live view, playback and backup functions, etc. With 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 series 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.

Hybrid Integration

The HDVR-830 allows each of its 8 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 series is definitely your ideal choice. In addition, the HDVR complies with ONVIF and it can expand flexibility between third-party IP cameras and the HDVR. The ONVIF is the main integration method for the HDVR and allows you to add cameras and reduce compatibility issue.

High Resolution Local Display

The HDVR-830 provides an HDMI and VGA video output interface for dual local display, which can be connected to HDMI monitor or VGA monitor for live view monitoring with video output of maximum 1280 x 720 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 systems can be accessed with Web browsers and Android mobile devices. With remote monitoring, you can view live and recorded video "on the go", 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 retails 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 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.

2. PRODUCT FEATURES

Hardware:
- Linux-embedded, highly-reliable standalone HDVR
- Supports 8-ch BNC connectors
- Supports dual local display (VGA and HDMI)
- Supports 3.5" SATA x 1 HDD
- Supports RS485 for PTZ control

Video / Audio:
- Supports H.264 compressions
- Video resolution up to 1280 x 720
- Supports hybrid mode for combination of IP and analog cameras
- 2-way audio support with enhanced audio quality

Video Recording / Backup:
- Simultaneous recording and live video streams
- Manual or scheduled recording of 8 cameras simultaneously
- Video recycle function makes the video recording 24/7
- Exports recorded video file to AVI format to USB device
- Instant Event Notification and recording

Network Service:
- Easy access with PLANET Dynamic DNS and built-in NTP Server
- Supports PPPoE, DHCP and manual settings

Easy Installation & Management
- ONVIF compliant for interoperability
- Supports multiple languages
- Auto 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 Hi3521

RAM: 2GB

3.2 Functional Specifications

Product	HDVR-830
Hardware	
Ethernet	1 x RJ-45, 10/100BASE-T
BNC Interface	8
USB Interface	2 x USB 2.0 for backup device and mouse
Video Interface	VGA / HDMI video interface
Audio Interface	4 x audio-in, 1 x audio-out
Storage Device	1 x 3.5" SATA hard disk connector (Max. 4TB)
LED	Power, Record, Alarm
Button	Menu, ESC, Direction & Enter
Camera	
Max. Channels	8-channel IP Cameras
Add Camera	Manual / Smart Camera Search
Video	
Video System	PAL (625line, 50f/s); NTSC (525line, 60f/s)
Compression	H.264
Resolution	IP camera: 1080P Analog camera: D1 / HD1 / CIF
Encode Capacity	8-ch HD1 / D1 real-time
Decode Capacity	8-ch HD1 / 1-ch D1 real-time
Hybrid Mode	● **Analog cameras:** 8-ch HD1 / 8-ch D1 ● **Analog cameras & IP cameras:** 2-ch D1 & (1-ch 1080P + 1-ch 720P) ● **IP cameras:** 9-ch D1 / 8-ch 960H / 4-ch 720P / 2-ch 1080P / 1-ch 720P + 7-ch D1 / 1-ch 1080P + 1-ch 720P + 2-ch D1
Motion Detection	Zones: 192 (16 x 12) detection zones Sensitivity: multi-level sensitivity (only local channels)
Audio	
Audio Type	2-way
Audio Format	G.711A

Live View	
Display Division	1 / 4 / 8 / 9
Snapshot	Video snapshot in JPEG format
Playback	
Record	Manual / Alarm / Motion Detection / Schedule
Local Playback	1 ~9ch simultaneous playback; supports up to 4 channel playback (1 x D1@25/30FPS) in analog mode (8-ch x D1)
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	Monitor: D1 / VGA: HD / HDMI: HD
Network and Configuration	
Network Service	TCP / UDP / HTTP / DHCP / DNS / DDNS / RTSP / NTP / UPnP / FTP / SMTP
Security	Password protection, IP address filtering
Triggering and Event	
Event Type	**System Events –** ● No storage ● Storage Error ● Storage No Space ● Net Disconnection ● IP Conflict **Camera Events –** Motion Detection / Video Blind / Video Loss / DI / DO
Event Action	● Show Message ● Buzzer ● Mobile Reported ● Send e-mail ● FTP Upload
Management	
Remote Session	5
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, Chrome, Firefox, Safari) ● CMS Utility
Log Type	All / System / Config / Storage / Alarm Event /

	Week Day / Account / Playback
Software Utility	Search utility / CMS / APP
Environment	
Power	12V DC, 2A
Consumption	15W (without HDD)
Operating Temperature	0~55 degrees C
Storage Temperature	0~60 degrees C
Humidity	10~90%
Weight	1.7 kg
Dimensions (W x D x H)	255 x 225 x 45mm

3.3 Physical Specifications

Dimensions (W x D x H)

255 x 255 x 45 mm

Weight

1.7kg (gross weight)

Front Panel

LEDs	Status	Definitions
Alarm	Red	Event action
Rec	Green	Normal operation
Power	Red	System on
Buttons	Status	Definitions
Menu	Setup	Press to enter main menu
Esc	Return	Press to return to previous page
Direction & OK	Control and Enter	Press to select and enter

Rear Panel

Connector	Description
V1-V8	Composite video signal（CVBS）input interface
A1-A4	The input interface of the audio signal
V-OUT	Composite video（CVBS）output interface
A-OUT	The output interface of the audio signal
LAN	The network interface of RJ-45
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: 0 ~ 55 degrees C

Operating Humidity: 10 ~ 90% non-condensing

Storage Temperature: 0 ~ 60 degrees C

Storage Humidity: 10~ 90% non-condensing

3.5 Electrical Specifications

Input Voltage: 12V DC, 2A

3.6 Regulatory Compliance

Power Consumption: 15 watts

3.7 Regulatory Compliance

FCC, CE

3.8 Basic Packaging

1 x HDVR

4 x Foot Pad

1 x USB Mouse

1 x Screw Kit

1 x Power Adapter

1 x User's Manual CD

1 x Quick Installation Guide

1 x SATA Cable

1 x SATA Power Cable

1 x RS485 Connector

3.9 Packaging Information

Dimensions (W x D x H)

345 x 275 x 95mm

Weight

2.2 kg

Carton Dimensions (W x D x H)

550 x 365 x 300mm

Carton Weight

11.5 kg

Carton Unit

5 pcs. in one carton