

Product Specifications

16-Ch Network Video Recorder

NVR-1615

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2014/9/26	Simon Yeh	Initial release

Author:	Simon Yeh	Editor:	Simon Yeh
Reviewed by:	Jonas Yang	Approved by:	Tom Shih

1. PRODUCT DESCRIPTION

PLANET NVR-1615 is a Linux-based standalone NVR, a new model of Network Video Recorder (NVR) series designed for IP surveillance system. Users can just turn on cameras and the NVR to easily protect their office and property under the Ethernet / IP networks. The recorded video files can be saved on the NVR and thus, an additional PC for files storage is not necessary, bringing users a secure surveillance system at a lower total cost of ownership.

The NVR-1615 provides powerful central surveillance management capability with its bundled Central Management Software (CMS). One NVR-1615 can manage up to 16 IP cameras via a connected IP network. With the bundled CMS, the NVR system is expandable for multi-sites management of up to 256 surveillance channels simultaneously. With the NVR-1615, users can view remote surveillance in real time and play back recorded videos via the bundled CMS software or the web browser. The NVR also helps the administrators to monitor the surveillance system more efficiently by providing multi-monitor.

The NVR-1615 not only supports PLANET IP cameras but also is compatible with most of major IP camera brands with ONVIF in the market. Furthermore, the NVR-1615 can automatically search and find the available cameras in the network and provide smart setup wizard program, so it greatly reduces users' effort when setting up the system.

The NVR-1615 is suitable to fit in various network environments. Besides its small-scale applications for retail stores and SMBs, the NVR-1615 offers 2 SATA HDDs supporting capacity up to 8TB and is ideal for large-scale surveillance premises, such as banks, enterprises, transportation, campuses, etc.

2. PRODUCT FEATURES

Hardware:

- Linux-embedded, highly-reliable standalone NVR
- Supports Gigabit Ethernet port
- Supports VGA / HDMI dual local display
- Supports 3.5" SATA III + 2 HDDs
- Supports e-SATA

Video / Audio:

- Simultaneous recording and live view streams
- 16-channel input of IP cameras
- Supports H.264 compression
- Video resolution up to 5 mega-pixel (2560 x 1920)
- Supports throughput up to 80Mbps
- 2-way audio (G.711, G.726)

Video Recording / Backup:

- Scheduled recording of 16 IP cameras simultaneously
- Samba path supported
- Supports 2 SATA HDDs, up to 4TB per HDD
- 1 x e-SATA
- Exports recorded video file in AVI format to USB device or local storage
- Instant Event Notification and recording

Network Service:

- Easy access with PLANET Dynamic DNS and built-in NTP Server
- Supports PPPoE / DHCP / Static network connection
- Supports low bit-rate connection for remote access

Easy Installation & 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 management through central management software
- Supports USB mouse and keyboard
- Supports mobile phone remote view

3. PRODUCT SPECIFICATIONS

3.1 Main Components

CPU	ARM Cortex A9 (Dual Core)
RAM	1.5GB

3.2 Functional Specifications

Product	NVR-1615
Hardware	
Ethernet	1 x RJ-45, 10/100/1000Base-T
USB Interface	2 x USB 2.0 for backup device and mouse
Video Interface	VGA / HDMI video interface
Audio Interface	1 x mic-in (phone jack 3.5mm) 1 x audio-out (phone jack 3.5mm)
Storage Device	2 x 3.5" SATA III hard disk connectors, 1 x e-SATA connector
LED	Power, HDD, LAN, REC, Event, Alarm, Camera, DI/DO
Button	Reset
Buzzer	1 x Buzzer
DI/DO	4 x Digital in, 4 x Digital out
Camera	
Max. Channels	16-channel IP cameras
Add camera	Manual / Auto Search / Auto setup
Video	
Compression	H.264
Resolution	5M / 3M / Full HD / SXGA / VGA / QVGA
Max. Live Video Frame Rate (Local Display)	480fps@D130 360fps@720P30 120fps@1080P30 20fps@5M15 Max. 5MP/channel
Max. Throughput	80Mbps
Snapshot	<ul style="list-style-type: none"> ● Preview snapshot in HDD or removable device ● Search event snapshot ● Backup to USB device
Audio	
Audio Type	2-way
Audio format	G.711, G.726
Live View	
Display Mode	Live View / Playback / Full Screen

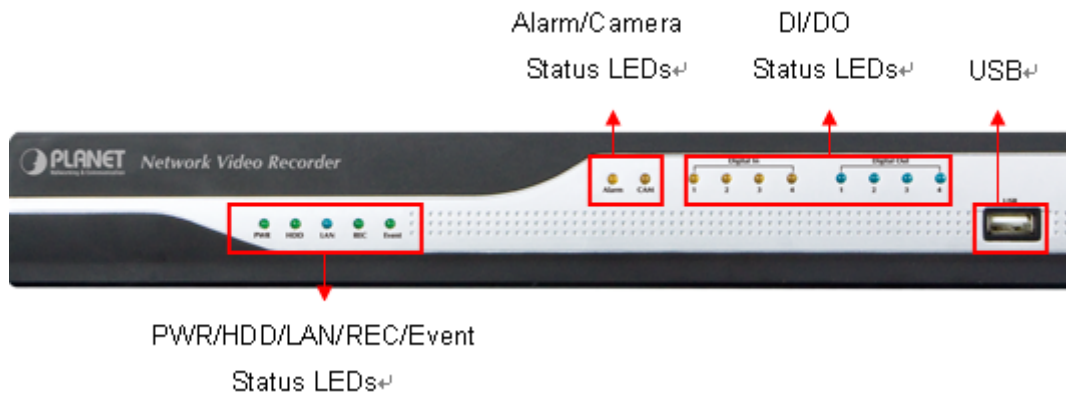
Split Screen	1 / 4 / 6 / 9 / 16 / Full Screen
Full Screen	1 / 4 / 6 / 9 / 16
PTZ Support	Preset / Tour / Auto Pan / Iris / Focus / Speed, and joystick
Playback	
Split Screen	1 / 4 / 6 / 9 / 16 / Full Screen
Search Mode	Simple / Graphical / Event
Play Method	Play / Reverse / Pause / Seek / Pre I-frame / Next Frame Search by time or event
Record	
Recording Mode	<ul style="list-style-type: none"> ● Scheduled recording from each camera ● Round the clock / Motion record modes / DI detection / Event Trigger ● Pre-alarm / Post-alarm configuration ● Auto recycle
Monitor	
Dual Monitor	Display same contents, depending on max. channels
Monitor Resolutions	1920x1080, 1440x900, 1366x768, 1280x1024, 1024x768
Network and Configuration	
Network Service	Fix IP / DHCP / PPPOE / DIPS Report / UPNP / DDNS
Notification	SMTP / HTTP / FTP / TCP
Event & Triggering	
Event Type	<ul style="list-style-type: none"> ● Motion Alarm ● Disconnect Alarm ● Audio Detection ● Digital Input ● Scheduled Triggering ● HDD Error
Event Action	<ul style="list-style-type: none"> ● Display on screen ● DO ● Buzzer alarm ● Snapshot ● Recording ● Mail ● FTP ● TCP ● HTTP
Management	
Number of Groups	2 (Administrator / User)
Privileges	Live View / Playback / Record / Setting / PTZ / Two-way Audio

User Interface	<ul style="list-style-type: none"> ● Graphic local user interface (Operated by mouse)* ● Web browser (Internet Explorer 7 or above) ● CMS Utility
Log Type	System / Event / Bit-rate
Software Utility	Search utility / Mobile app / CMS
Environment	
Power	12V DC/4.16A
Consumption	8W (without HDD)
Operating Temperature	0~40 degrees C
Storage Temperature	-40~70 degrees C
Humidity	0~85% (non-condensing)
Weight	1455g
Dimensions (W x D x H)	330 x 252 x 57 mm

3.3 Physical Specifications

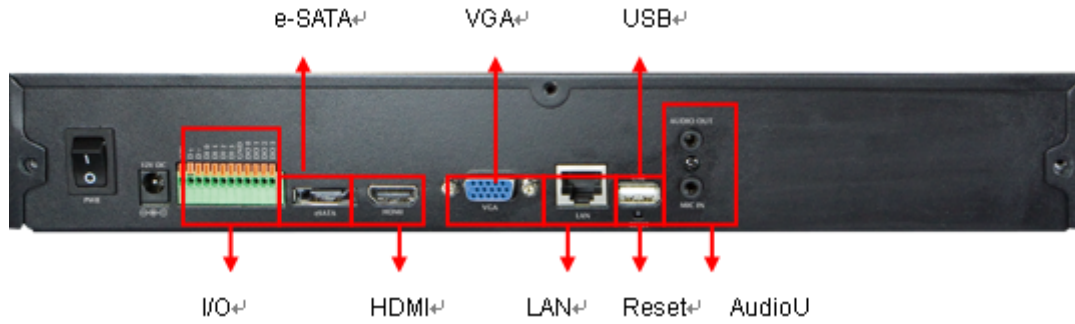
Dimensions (W x D x H)	330 x 252 x 57mm
Weight	1.5kg (gross weight)

Front Panel



LEDs	Color	Description
PWR	Green	LED will light up when system is ready.
HDD	Green	LED will light up when HDD is reading or writing.
LAN	Blue	LED will blink when network is connected.
REC	Green	LED will light up when record schedule is on.
Event	Green	LED will light up when event detection schedule is on.
Alarm	Amber	LED will light up when hard disk writes error.
CAM	Amber	LED will light up when system has camera disconnected.
Digital In (1~4)	Amber	LED will light up when digital input X is closed.
Digital Out (1~4)	Blue	LED will light up when digital output X is closed.

Rear Panel



Connector	Description
USB	Connect your mouse and USB flash disk for local display control and backup.
Reset	Press and hold reset button for factory default.
HDMI	HDMI output
VGA	VGA output
e-SATA	External e-SATA HDD
LAN	10/100/1000Mbps network.
I/O	DI x 4 / DO x 4
Audio	Audio out / Mic in

3.4 Environmental Specifications

Operating Temperature	0 ~ 40 degrees C
Operating Humidity	0 ~ 85% non-condensing
Storage Temperature	-40 ~ 70 degrees C
Storage Humidity	0 ~ 85% non-condensing

3.5 Electrical Specifications

Input Voltage	12V DC, 4.16A
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3.6 Regulatory Compliance

Power Consumption	8 watts (without HDD)
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3.7 Regulatory Compliance

FCC, CE

3.8 Reliability

MTBF > 50,000 hrs @ 25 degrees C

3.9 Basic Packaging

- 1 x NVR
- 1 x Power Adapter
- 2 x SATA Data Cord
- 2 x SATA Power Cord

- 16 x Screw
- 4 x HDD Cradle
- 1 x CD-ROM
- 1 x Quick Installation Guide

4.0 Packaging Information

Dimensions (W x D x H)	370 x 428 x 126mm
Weight	2.3 kg
Carton Dimensions (W x D x H)	670 x 450 x 400mm
Carton Weight	11kg
Carton Unit	5pcs in one carton

APPENDIX A: DEFAULT SETTING

Default IP Address	192.168.0.20
Default Login User Name	admin
Default Login Password	admin
Search Tools	NVR Device Search