16-Ch Network Video Recorder with HDMI

Efficient SMB Surveillance Solution

PLANET NVR-1620, a high-definition IP surveillance solution, is suitable for upgrading your CCTV system to IP system without re-cabling. The NVR-1620 is the 16-channel Linux-embedded NVR with HDMI local display, bringing a stable and efficient system operation under a wide range of recording, network management, and system settings. The NVR-1620 can be used as a control center to control and monitor up to 16 connected network cameras (ONVIF supported) locally or remotely, perfectly designed for intelligent IP surveillance system. Users can just turn on the cameras and the NVR to easily protect their lives and properties under the IP networks. It also supports image storage for evidentiary recording and data backup of up to 2 hard disks. The recorded video files can be saved in the NVR without the need for an additional PC for file storage, thus bringing users a secure surveillance system at a lower total cost. It is fully compatible with iOS, Android and Internet Explorer on Windows operating system for multi-platform remote access.

Hardware

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

Video/Audio

- Supports M-JPEG / MPEG-4 / H.264 compressions
- Auto configuration for PLANET IP camera
- Video resolution up to 5 mega-pixel (2560 x 1920)
- Supports up to 150fps@1080p (H.264)
- 2-way audio support with enhanced audio quality

Video Recording/Backup

- Simultaneous recording and live video streams
- Manual or scheduled recording of 16 IP cameras simultaneously
- Video recycling function records events 24/7
- Exports recorded video file in AVI format to USB device or local storage
- Instant event notification

Network Service

- Easy access with PLANET Dynamic DNS and built-in NTP server
- Supports DHCP server/client (Auto detection)

Easy Installation & Management

- ONVIF compliant for interoperability
- Supports multiple languages
- Automatically discovered by management software
- E-map interface in web and utility configuration
- Web-based and management utility for easy configuration
- Up to 16 NVRs, max. 256 channels with the central management software
- Supports USB keyboard and mouse
- Supports mobile phone remote view

High Resolution Local Display

The NVR-1620 provides both HDMI and VGA video output interfaces for dual local display, which can be connected to HDMI monitor or TV for doing monitoring in the full HD (1920 x 1080) resolution, and check NVR system status on VGA monitor at the same time, eliminating the need for a separate PC to view video from the unit. It also can be operated with the USB keyboard and mouse to configure and monitor all the system easily.

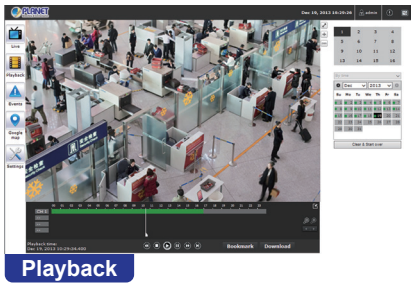
Dual Local Display

Performing Real-time Remote Monitoring

Up to 16 IP cameras can be connected to the NVR-1620 via a connected IP network. With the NVR-1620, it delivers high-performance video recordings and smooth playbacks of multiple megapixel cameras. Users can view remote surveillance in real time and play back recorded videos via the web browser or the bundled CMS software.

High-performance, Real-time Remote Monitoring

Live View


Playback

Managing and Presenting Clear and Concise Video

Not just for small-scale applications such as retail stores and SMBs, the NVR system is expandable for multi-site management with the bundled CMS software. For instance, the CMS software in the NVR-1620 can manage up to 16 units of NVRs at the same time, meaning 256 channels of IP cameras can be viewed simultaneously. With multi-monitor and e-map functions, the NVR can help the administrators to monitor the surveillance system more efficiently and effectively.

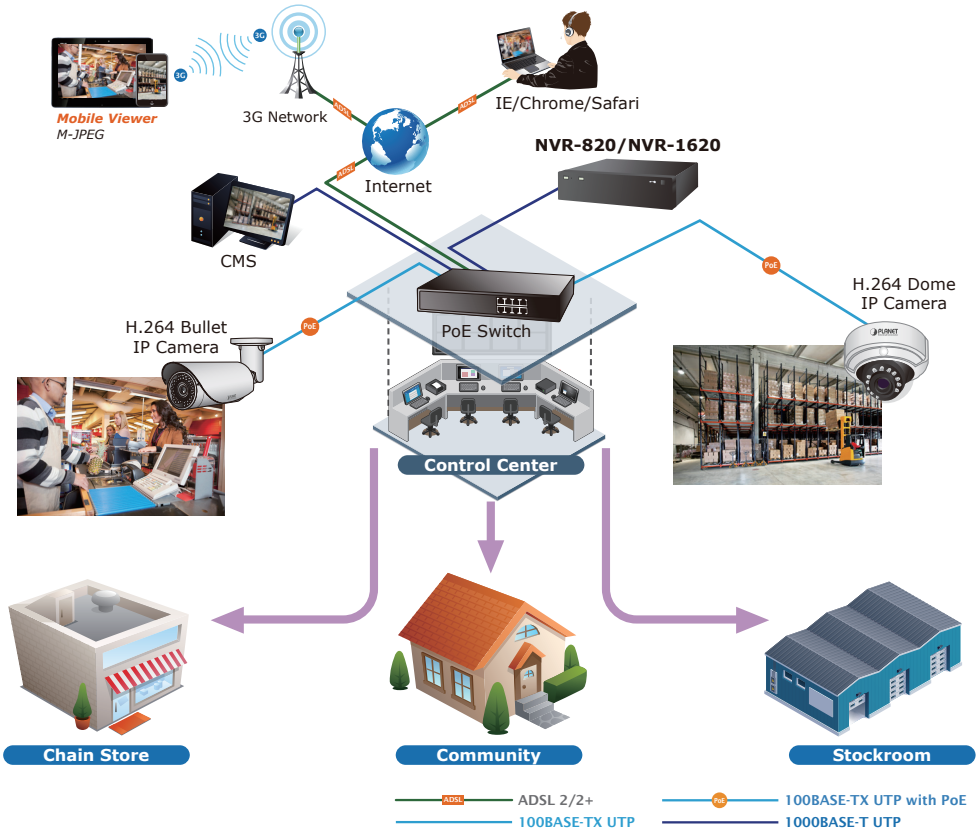
Applications

Advanced Event Management

The NVR-1620 is equipped with a smart alarm-triggering mechanism, and supports various alerts and abnormal events. When it comes to a critical event, having a smart and responsive event management in place is essential for video surveillance system. This feature greatly strengthens the security and management efficiency of PLANET NVR systems.

Perfect for Indoor Surveillance Applications

PLANET NVR systems can be controlled and monitored both in the local LAN and the remote site via Internet. Users can also login from their mobile phones to check the monitoring screen anywhere, anytime. It is especially perfect for indoor surveillance in such places as boutiques, department stores, restaurants, etc.



Product Specifications

Product	NVR-1620
Hardware	
Ethernet	1 x RJ45, 10/100/1000BASE-T
USB Interface	2 x USB 2.0 for backup device and firmware upgrade
Video Interface	VGA/HDMI video interface
Audio Interface	Mic-in, line-in and line-out
Storage Device	2 x 3.5" SATA II hard disk connectors
LED	Power, Status
Button	Power, Reset
Camera	
Max. Channels	16-channel IP cameras
Additional Camera	Manual/Smart Camera Search / Auto Setup
Video	
Compression	H.264 / MPEG-4 / M-JPEG
Resolution	5MP / 3MP / 1080p / 720p / FD1 / CIF / QCIF
Max. live video frame rate (Local Display)	480fps@D1 (16-ch) 360fps@720p (12-ch) 150fps@1080p (5-ch) *Supports 5MP and Full HD1080p@60fps
Max. Recording Frame Rate (Local Display)	480fps@1080p (16-ch), 4Mbps per channel, total of 16 channels *Real performance may vary in different environments.
Audio	
Audio Type	2-way
Audio Format	G.711, G.726 (Camera dependent)
Live view	
Display Mode	Live View / Playback / Full Screen / Sequence View / Saved Views
Split Screen	1/4/9/16
Full Screen	1/4/9/16
Sequence Mode	Sequence all/manually selected cameras in 1/4 split view with configurable timer
Snapshot	Video snapshot in JPEG format
PTZ Support	Digital PTZ / Auto Pan / Preset Point / Sequence View
Playback	
Split Screen	1/4
Play Method	Play / Pause / Stop / Forward / Reverse / Speed Adjust / Frame by Frame
Search by time or event only	Intuitive timeline interface with bookmark function for easy file export
Monitor	
Dual Monitor	Main UI + Full screen live view / sequence view
Monitor Resolutions	1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768
Network and Configuration	
Network Service	TCP / HTTP / SMTP / DHCP / DNS / ARP / P2P / NTP / UPnP / FTP
Streaming Protocols	Depending on the supported cameras
Triggers and Event	
Event type	**System Events** ▪ System Start/Shutdown ▪ System Settings modified ▪ Camera Settings Modified ▪ Start Recycle ▪ Disk Full **Camera Events** ▪ Motion/Sensor Detection
Event Action	▪ Display red window on video of event channel ▪ Buzzer alarm ▪ Disable/enable event action ▪ Duration of event action ▪ Recording ▪ Mail/FTP notification ▪ E-map notification

Management	
Number of Groups	7 (Administrator/Guest/User Define * 5)
Privileges	Live View / Playback / System Configurations / Camera Configurations / Recording Configuration / Event Configuration / Maintenance
User Interface	▪ Graphic local user interface (Operated by mouse, keyboard) ▪ Web browser (Internet Explorer 7 or above) ▪ CMS Utility
Log Type	Alert/Event/User Access
Software Utility	Search utility/media player for exporting recorded files
Environment	
Power	19V DC, 4.74A
Consumption	60W
Operating Temperature	5~40 degrees C
Storage Temperature	-40~70 degrees C
Humidity	10~90% (non-condensing)
Weight	2.4 kg
Dimensions (W x D x H)	315 x 225 x 75 mm

Ordering Information

NVR-1620	16-Ch Network Video Recorder with HDMI

Related Products

NVR-820	8-Ch Network Video Recorder with HDMI
NVR-3210	32-Ch Network Video Recorder
NVR-3250	32-Ch Rack-mount Network Video Recorder
NVR-3280	32-Ch Rack-mount Network Video Recorder with 8-bay Hard Disks
NVR-915	9-Ch Network Video Recorder
NVR-1615	16-Ch Network Video Recorder
HDVR-430	4-Ch Hybrid Digital Video Recorder
HDVR-830	8-Ch Hybrid Digital Video Recorder
HDVR-1630	16-Ch Hybrid Digital Video Recorder

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