D-Link®
Building Networks for People

DNR-4020-16P

JustConnect H.265 PoE Network Video Recorder

Features

Rock-Solid Reliability
• One 10/100/1000 Mbps Gigabit Ethernet port
• External USB storage connectivity for backups

Convenient Interface
• View real-time and recorded video of all 16 cameras from anywhere in your home or office, or remotely via the Internet
• Mobile app lets administrators monitor the system remotely on a mobile device
• User-friendly interface provides 16 channels of simultaneous live view, recording, playback, and PTZ control

Full-Featured Functionality
• Supports H.265 and H.264 compression formats
• Two-bay SATA 3.5" HDD interface, up to 8 TB capacity per hard disk drive[1]
• Continuous, scheduled, or event-based recording with automatic overwrite function

Flexible and Scalable
• Standalone device- eliminates the need for a dedicated PC
• Supports D-Link network cameras[3]
• Video exporting via USB or to network locations

The DNR-4020-16P is a standalone wired Network Video Recorder (NVR) which supports multi-channel network cameras with H.265 and H.264 recording and two high-speed SATA hard disks for backup. Thanks to a powerful embedded system, the NVR can record video from network cameras located in local or remote sites into a dedicated HDD storage without having to turn on a PC. The DNR-4020-16P NVR supports real-time monitoring and playback from everywhere via browser, HDMI or VGA port. The triplex function enables the device to continue recording while simultaneously allowing the user to watch the live view and search for playback videos. Complete video management, display and playback capabilities make the DNR-4020-16P a convenient and stable asset to your network.
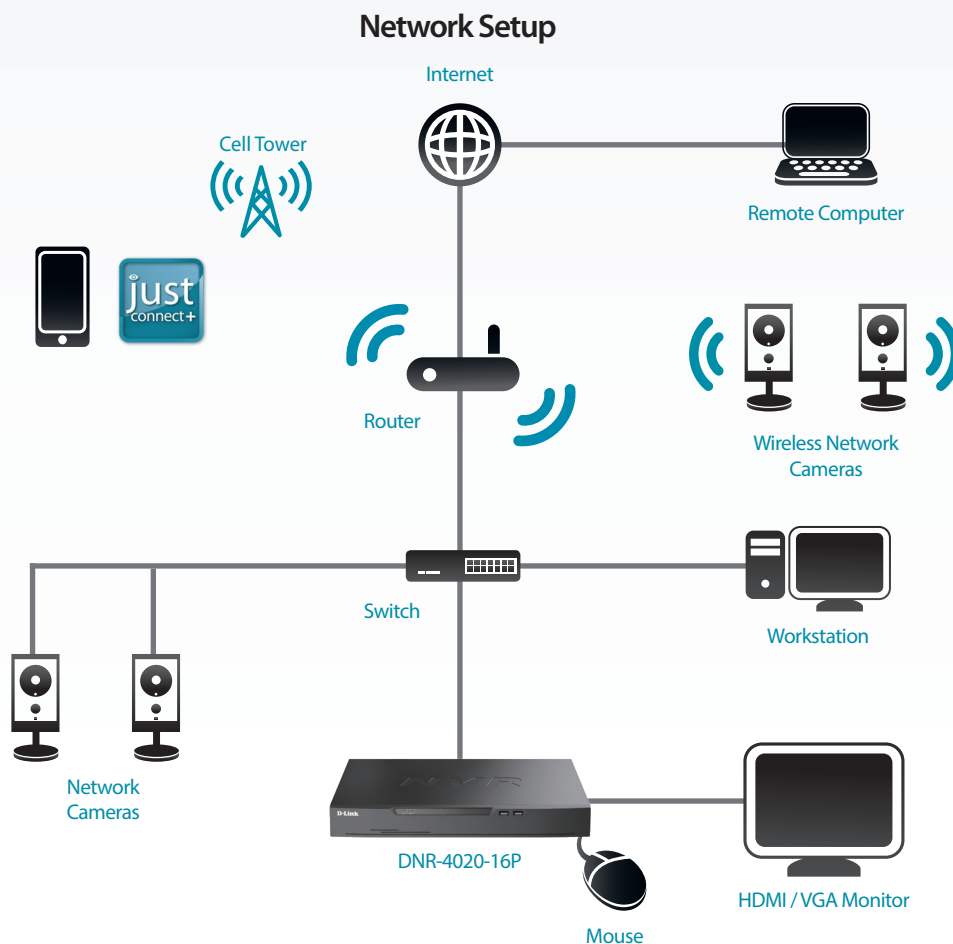
Automated Surveillance

Users are provided with a variety of options for viewing live streams and camera footage on-screen as well as automatically recording events as they happen, with or without an operator on-site. Event-based recording is available for cameras with motion detection and Alarm In connections are supported for triggers such as door and window sensors for automated recording during unusual events. User-defined scheduled recording and continuous recording with automatic overwriting options help to ensure the surveillance system is running reliably, even when no one is around.

Extensive Monitoring and Recording Features

The DNR-4020-16P's intuitive interface allows for easy configuration of many functions including compression, resolution, and frame rate for all connected cameras. Support for multiple encoding formats provides administrators the flexibility to prioritize storage space and video quality. Featuring live viewing of multiple channels, users can simply drag and drop selected cameras to the viewing area. A single camera may be viewed full-screen with two-way audio support. Advanced search features including calendar filters help administrators quickly find the specific footage they need.

Smooth Streaming from Anywhere

The DNR-4020-16P also enables users to remotely view and manage the NVR from anywhere via a web browser. The Gigabit Ethernet port provides superior bandwidth for viewing 16 camera streams simultaneously, so critical moments can be monitored and captured at all times. Rounding out the features is the JustConnect+ mobile app that lets administrators easily and remotely access and monitor the DNR-4020-16P on a mobile device — making the JustConnect H.265 PoE Network Video Recorder a complete, easy-to-use enterprise surveillance solution.

Network Setup

Internet

Cell Tower

just connect+

Remote Computer

Router

Wireless Network Cameras

Switch

Workstation

Network Cameras

DNR-4020-16P

Mouse

HDMI / VGA Monitor

Technical Specifications

General

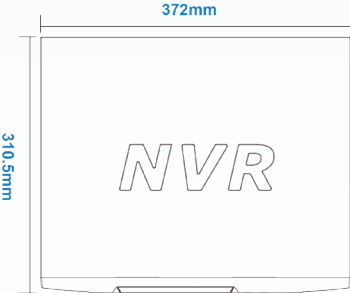|		
Standards	• IEEE 802.3x/u/ab • SATA I/II/III	• Auto MDI/MDI-X
HDD[1]	• Up to 8 TB capacity per HDD drive[2]	
Reset Button	• Reset through web GUI	
Network Interface	• Gigabit Ethernet port (10/100/1000 Mbps)	
I/O Ports	• 1 x 10/100/1000 Base-T RJ-45 port • HDMI (supports 4k resolution) • VGA (supports 1080P resolution)	• 3 x USB 2.0 port[3] • 3.5 mm audio input x 1, output x 1 • 8 x alarm in, 2 x alarm out
PoE	• IEEE 802.3af • 16 x 10/100 Base-T RJ-45 ports	• Supplies up to 15 W per port • 120 W total PoE budget
Cooling	• 1 x Fan	

Features

Network Client OS	• Microsoft Windows 10	
Supported Cameras[4]	• Supports D-Link brand IP cameras	• Supports auto-discovery
Live View/Playback	• HDMI port max output resolution: 4k[5]	• VGA port max output resolution: 1080p[6]
System Requirements for Web Interface	• Full support with Internet Explorer 10 and above	• Partial support for Edge, Chrome, Safari and Firefox
Recording Performance	• Max recording bitrate: 112 Mbps	
Camera Search	• WS-Discovery	
Audio and Video Recording	• Synchronized audio and video recording	
Compression Format	• H.264	• H.265
Audio Compression Format	• G.711	• AAC
Video Setting	• Resolution • Bitrate	• Frame rate • Video profile selection
Recording Mode	• Schedule, manual and event-based recording	• Motion-triggered recording
Alarm Recording	• Post-alarm: 30/40/50/60 seconds per channel	
Live View Control	• Manual record • Instant playback • Audio enable/disable • PTZ control	• 3D (on screen PTZ) • Digital zoom in/zoom out • Image setting • Two way audio
Playback Control	• Normal • Rewind • Play • Stop • Next frame • 30 second forward/backward	• Playback speed adjust (maximum triple speeds) • Audio enable/disable • Start Backup • Batch Backup • 1/6/12/24 hour(s) options • Zoom
Overwrite Recording	• Auto recycling when disk storage is full	
Video Export	• Export video to MP4 file format	
User Account	• Additional accounts can be created to allow users system access and specify authorization for camera channels, PTZ, etc.	

DDNS	• No_IP • AutoDNS	• DynDNS
System Time	• Sync with NTP server • Manual Input time	• Time Zone • Daylight Saving Time
System Status	• Channel status • HDD status	• System status • Network status
Network Service Protocols	• IPv4, ARP, TCP, UDP, ICMP • DHCP Server (PoE ports) • DHCP Client (LAN ports) • NTP Client • DNS Client • DDNS Client • SMTP Client	• HTTP/HTTPS Server • RTP • RTSP • RTCP • IP filtering • SNMP v1/v2c/v3
User Interface	• HTTP Web browser • Console via HDMI/VGA	• JustConnect+ mobile app

Physical

Weight	• 2.8 kg (6.2 lbs) (No Disk)	
Power Input	• Input: 100 to 240 V AC/ 3.0 A, 50 to 60 Hz	• Output: 52 V AC/ 2.5 A, DC 12V/ 5.0A
Power Consumption	• Max. 143 W	
Temperature	• Operating: 0 to 40 ˚C (32 to 104 ˚F)	• Storage: -20 to 70 ˚C (-4 to 158 ˚F)
Humidity	• Max of 90% non-condensing	
Certifications	• CE • FCC	• RoHS
Dimensions		

372mm

310.5mm

46.5mm

Order Information

Part Number	Description
DNR-4020-16P	JustConnect H.265 PoE Network Video Recorder

¹ Hard disks are not included.
² Supports up to 2 hard disks of up to 8 TB each for a total of 16 TB.
³ Supports mouse and flash disk.
⁴ Please visit your regional D-Link website via www.dlink.com for a full camera compatibility list.
⁵ 1 channel support 4k, 1-4 channels support 1080p and 8-16 channels support D1 resolution.
⁶ 1-4 channels support 1080p and 8-16 channels support D1 resolution.

Updated 2021/04/01

D-Link®
Building Networks for People