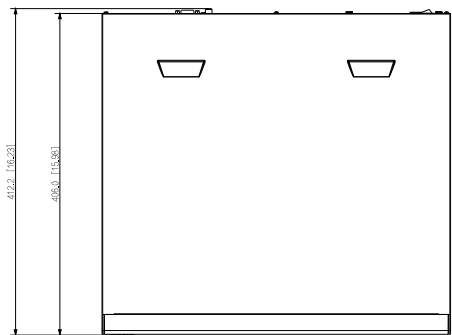
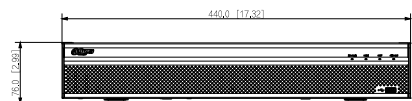


16/32/64 Channel 1.5U 4HDDs 16PoE 4K & H.265 Pro Network Video Recorder



- 16/32/64-channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264/MJPEG; H.265 auto switch
- Max 320 Mbps incoming bandwidth
- Up to 24MP resolution for live view and playback
- 1-channel fisheye dewarping (AI by NVR)
- AI by Camera: Perimeter protection; face detection and recognition; SMD Plus; video metadata; ANPR; people counting; stereo analysis; crowd distribution; heat map
- Support IPC UPnP, 16 PoE ports

Dimensions (mm[inch])

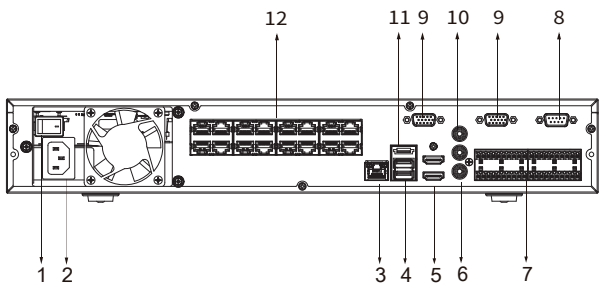


HDMI	2
VGA	2
Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port
PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC

General Parameter

Power Supply	Single, 100V~240V AC, 50 Hz~60 Hz
Power Consumption	NVR: < 17.5W (without HDD) PoE: Max 25.5W for single port 150W total rated power, 80% control for protection
Net Weight	4.65 kg (10.3 lb) (without HDD)
Gross Weight	7 kg (15.4 lb) (without HDD)
Product Dimensions	440 mm × 412.2 mm × 76.0 mm (17.3" × 16.2" × 3.0")
Package Dimensions	522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9")
Operating Temperature	-10°C to +55°C (+14°F to +131°F)
Storage Temperature	0°C to +40°C (+32°F to +104°F)
Operating Humidity	10%~93% (RH)
Storage Humidity	30%~85% (RH)
Operating Altitude	3,000 m (9,843 ft)
Certifications	CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014 UL: UL 60950-1

Panels



- | | |
|----------------|-----------------------------|
| 1 Power Switch | 2 Power Input |
| 3 Network Port | 4 USB Ports |
| 5 HDMI Ports | 6 AUDIO IN, RCA Connector |
| 7 Alarm In/Out | 8 RS-232 Port |
| 9 VGA Ports | 10 AUDIO OUT, RCA Connector |
| 11 eSATA Port | 12 PoE Ports |

Technical Specification

System	
Main Processor	Industrial embedded micro-processor
Operating System	Embedded Linux
Operation Interface	Web; local GUI

Perimeter Protection by Camera	
Performance	16/20/20 channels
AI Search	Search for pictures by channel, time and event type

Face Recognition by Camera	
Performance	14 channels
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard
AI Search	Search for pictures by channel, time and face attributes

SMD Plus by Camera	
Performance	16/32/64 channels
AI Search	Search by target classification (human, vehicle)

Video Metadata by Camera	
Performance	16 channels
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region
Non-motor Vehicle	Type; color; number of passengers; helmet
AI Search	Supports searching for target video by metadata

ANPR by Camera	
Performance	4 channels

Stereo Analysis by Camera	
Performance	16 channels
AI Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence detection)

Video	
Access Channel	16/32/64
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more
Decoding Capability	16-channel@1080P (30 fps)
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720 HDMI2/VGA2: 1920 × 1080 VGA1/HMDI1 homologous output, VGA2/HDMI2 homologous output, and VGA1/HDMI1 and VGA2/HDMI2 supports heterogeneous output
Multi-screen Display	1st Screen: 16-channel: 1/4/8/9/16 32-channel: 1/4/8/9/16/25/36 64-channel: 1/4/8/9/16/25/36/64
	2nd screen: 1/4/8/9/16

Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more
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Compression	
Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG
Audio	PCM; G.711A; G.711U; G.726

Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Supports IP camera, DVR, NVS, and more.) ; P2P
Mobile Phone Access	Android; iOS
Interoperability	ONVIF (profile T/S/G); CGI; SDK
Browser	Chrome; IE9 or later; Firefox

Record Playback	
Multi-channel Playback	1/4/9/16
Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent; POS)
Storage Method	Local HDD and network
Backup	USB device
Playback Function	1. Play; pause; stop; fast forward; fast backward; rewind; play by frame 2. Full screen; backup (cut/file) ; partially enlarge; audio on/off

Storage	
Disk Group	Yes

Alarm	
General Alarm	Motion detection; privacy masking; video loss; local alarm; PIR alarm; IPC alarm
Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly
Intelligent Alarm	Perimeter protection; face detection; face recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle) ; ANPR; people counting; stereo analysis; crowd distribution; heat map
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email

External Port	
Audio Input	1 channel, RCA connector
Audio Output	2 channels, RCA connector, which supports voice intercom output
HDD	4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Alarm Input	16 channels
Alarm Output	6 channels
eSATA	1 eSATA
RS-232	1 channel, used to debug and pass through serial data
RS-485	1 channel, used to control PTZ, and it supports multiple protocols
USB	1 front USB 2.0 port, 2 rear USB 3.0 ports