

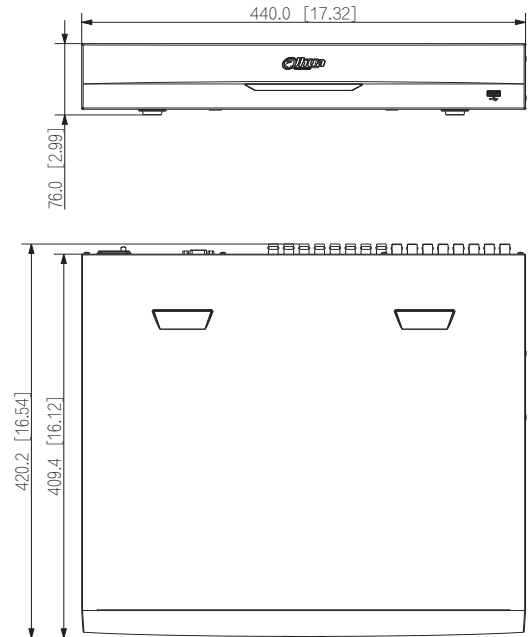
32 Channels Penta-brid 4K-N/5MP 1.5U 4HDDs Digital Video Recorder



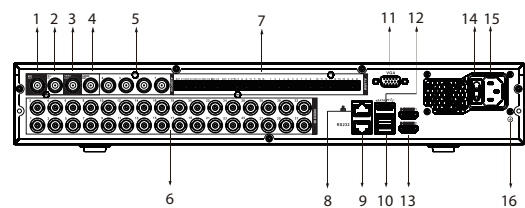
- H.265+/H.265 dual-stream video compression.
- Supports 32-channel AI-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 32 channels IP camera inputs, each channel up to 12MP; Max 128 Mbps incoming bandwidth.
- Up to 12 channels video stream (analog channel) perimeter protection.
- Up to 32 channels video stream (analog channel) SMD plus.
- Up to 6 channels video stream (analog channel) human face recognition.
- IoT & POS functionalities.

eSATA	1
RS-232	1 port, for PC Communication & Keyboard
RS-485	1 port, for PTZ control
USB	3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)
HDMI	2
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	100-240 VAC, 50/60 Hz
Power Consumption	<30 W (without HDD)
Net Weight	4.90 kg (10.81 lb)
Gross Weight	7.20 kg (15.88 lb)
Product Dimensions	440.0 mm × 420.2 mm × 76.0 mm (17.32" × 16.54" × 2.99") (W × D × H)
Packaging Dimensions	529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 8.31") (W × D × H)
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–90% (RH)
Installation	Rack or desktop
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B

Dimensions (mm[inch])



Panels



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|---------------------------|----------------------------|
| 1 MIC OUT, BNC Connector | 2 MIC IN, BNC Connector |
| 3 VIDEO OUT | 4 AUDIO OUT, BNC Connector |
| 5 AUDIO IN, BNC Connector | 6 VIDEO IN |
| 7 Alarm In/Out | 8 Network Port |
| 9 RS-232 Port | 10 USB Ports |
| 11 VGA Port | 12 eSATA Port |
| 13 HDMI Ports | 14 Power Switch |
| 15 Power Input | 16 Ground |

Technical Specification

System

Main Processor	Industrial-grade processor
Operating System	Embedded Linux
Operating Interface	Web; Local GUI

Perimeter Protection

Perimeter Performance AI by Recorder (Number of Channels)	Advanced Model: 6 channels, 10 IVS for each channel General Model: 12 channels, 10 IVS for each channel
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Face Detection

Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Recorder (Number of Channels)	6 channels (up to 12 face images/s each channel)

Face Recognition

Face Database Capacity	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries & regions and state can be added to each face image
Face Recognition Performance of AI by Recorder (Number of Channels)	6 channels

SMD Plus

SMD Plus by Recorder	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
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Audio and Video

Analog Camera Input	32 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
Camera Input	1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps. 2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.
IP Camera Input	Up to 32 channels of IPC access 32 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps
Encoding Capacity	Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1, CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1fps-25/30fps)
Dual-stream	Yes
Video Bit Rate	32 kbps-6144 kbps
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps

Video Output

2 HDMI, 1 VGA, 1 TV
VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720
HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720
*Heterogeneous video sources output for HDMI2 is configurable.

Multi-screen Display

1/4/8/9/16/25/36

Third-party Camera Access

ONVIF; Panasonic; Sony; Axis; Arecont; Samsung

Compression Standard

Video Compression

AI Coding; Smart H.265+; H.265; Smart H.264+; H.264

Audio Compression

G.711a; G.711u; PCM

Network

Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 21.12; CGI
Browser	Chrome, IE9 or later, Firefox
Network Mode	Single-address mode

Recording Playback

Record Mode	General, motion detection; intelligent; alarm; POS
Recording Playback	1/4/9/16
Backup Method	USB device and network
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)

Storage

Disk Group	Yes
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Alarm

General Alarm	Motion detection; video loss; tampering; local alarm
Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict
Intelligent Alarm	Face detection; face recognition; perimeter protection
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email

Ports

TV Output	1 channel
Audio Input	4-channel BNC 32-channel BNC (Coaxial Audio)
Audio Output	1-channel BNC
Two-way Talk	1-channel BNC
Alarm Input	16 channels
Alarm Output	6 channels (5-channel relay output, 1-channel 12 V 1 A output)
HDD Interface	4 SATA ports, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.