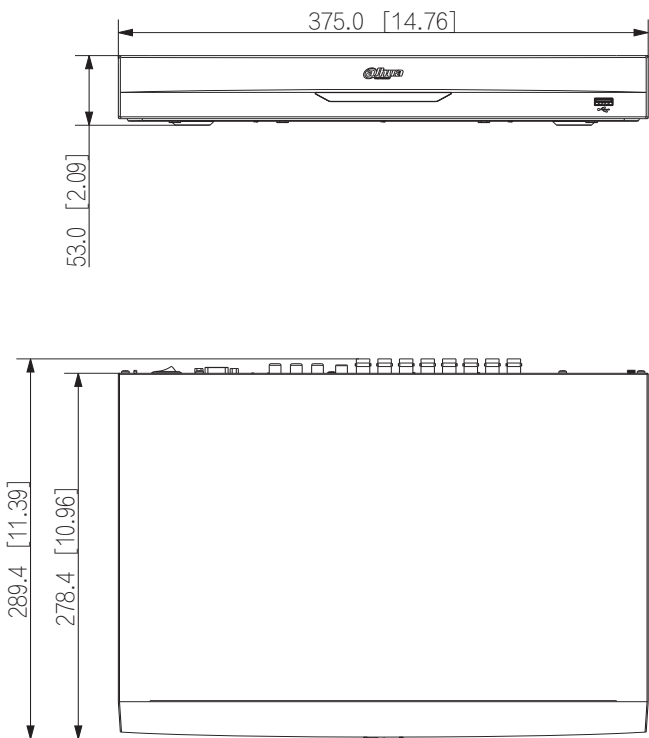


16 Channels Penta-brid 4K-N/5MP 1U 2HDDs Digital Video Recorder

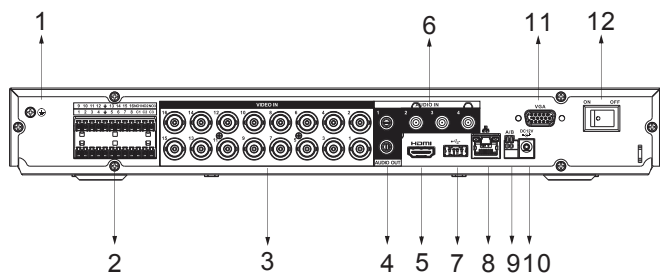


- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI-Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 32 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth
- Up to 2 channels video stream (analog channel) Perimeter Protection
- Up to 16 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition
- IoT & POS functionalities
- Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.

Dimensions (mm[inch])



Panels



- | | |
|---------------|-----------------------|
| 1 Ground | 2 Alarm In/Out |
| 3 Video In | 4 Audio Out |
| 5 HDMI Port | 6 Audio In |
| 7 USB Port | 8 Network Port |
| 9 RS-485 Port | 10 DC 12V Power Input |
| 11 VGA Port | 12 Power Switch |

HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	12 VDC, 5 A
Power Consumption	Lower than 15 W
Net Weight	1.80 kg (3.97 lb)
Gross Weight	2.98 kg (6.57lb)
Product Dimensions	1U, 375.0 mm × 289.0 mm × 53.0 mm (14.76" × 11.38" × 2.09") (W × D × H)
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (W × D × H)
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Operating Humidity	10%–90% (RH)
Installation	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

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)	2 channels, 10 IVS rules for each channel
Face Detection	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)
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®ions and state can be added to each face picture
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels
SMD Plus	
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change
Audio and Video	
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect
Camera Input	1. CVI: 4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps. 2. TVI: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps, 720P@25/30fps. 3. AHD: 4K, 5MP, 4MP, 3MP, 1080P@25/30fps, 720P@25/30fps.
IP Camera Input	Up to 32 channels of IPC access 16 IP channels by default + 16 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: All channel 4K@(1-7fps); 6MP@(1-10fps); 5MP@(1-12fps); 4K-N/4MP/3MP@(1-15fps); 4M-N/1080P/720P/960H/D1/CIF(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1 fps-25/30fps))
Dual-stream	Yes
Video Frame Rate	PAL: 1 fps-25 fps. NTSC: 1 fps-30 fps.
Video Bit Rate	32 kbps-6144 kbps per channel
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps

Bit Rate Type	Video stream and composite stream.
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36
Third-party Camera Access	Onvif, RTSP, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Samsung

Compression Standard

Video Compression	AI Coding; H.265+; H.265; 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 16.12, 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, and local alarm
Anomaly Alarm	No disk, storage error, low space, 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

Audio Input	4-channel RCA (external) 16-channel BNC (coaxial audio)
Audio Output	1, RCA
Two-way Talk	Yes (share the same audio input with the first channel)
Alarm Input	16 channels
Alarm Output	3 channels
HDD Interface	2 SATA ports,up to 16 TB for a single HDD, the maximum HDD capacity varies with environment temperature
RS-485	1
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)