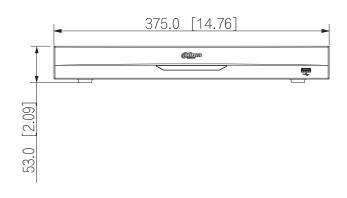
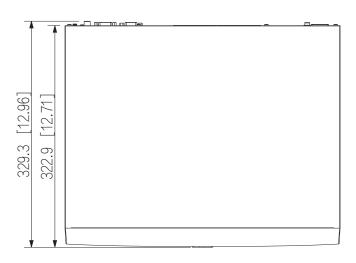
16 Channels 1U 16PoE 2HDD Network Video Recorder



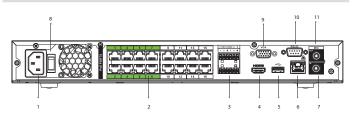
- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- \cdot 32-channel 1080p self-adaptive decoding capability.
- \cdot Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · AI by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- · Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, and people counting.
- · Security baseline 2.3.

Dimensions (mm[inch])





Panels



- 3 Alarm In/Out
- 5 USB Port
- 7 MIC IN, RCA Connector
- 11 MIC OUT, RCA Connector
- HDMI Port Nerwork Port

 - 10 RS-232 Port

Technical Specification		Vehicle License Plate Comparison	
System		ANPR by Camera (Number of Channels)	8 channels
Main Processor	Industrial-grade processor	License Plate Database	abase 1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist
Operating System	Embedded Linux	Capacity	
Operating Interface	Web, Local GUI	Audio and Video	
Al		Access Channel	16
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus Face detection; face recognition; video metadata	Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and
Al by Camera po	(human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map	Resolution	200 Mbps outgoing 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF
Perimeter Protection			Al disabled: 2-channel 32 MP@20 fps; 2-channel 24
Perimeter Performance Al by Recorder (Number of Channels)	4 channels, 10 IVS rules for each channel	MP@20 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps;8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps;16-channel 4 MP@30 fps Al enabled: 1-channel 32 MP@20 fps; 1-channel 24	
Perimeter Performance of AI by Camera (Number of Channels)	16 channels		MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps;4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps
Face Detection Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Output	1-channel VGA, 1-channel HDMI video output. Heterogeneous video source output for HDMI and VGA Supports 4K display
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	Multi-screen Display	Main screen: 1/4/8/9/16 Sub screen: 1/4/8/9/16
		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung
Face Detection	16 channels	Compression Standard	
Performance of AI by Camera (Number of Channels)		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Recognition		Audio Compression	G.711a; G.711u; PCM; G726
Up to 20 face databases with 20,000 images, with a		Network	
Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR NVS, etc.); Multicast; P2P; Auto Registration
Face Recognition Performance of AI by Recorder (Number of Channels)	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Mobile Phone Access	iOS; Android
		Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK
Face Recognition Performance of AI by Camera (Number of	16 channels	Browser	Chrome IE 9 or later Firefox
Channels)		Recording Playback	
SMD Plus		Multi-channel Playback	Up to 16 channels
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Record Mode	General, motion detection; intelligent; alarm; POS
SMD Plus by Camera	16 channels	Backup Method	USB device and network
Video Metadata		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Metadata Performance of Al by Camera (Number of	8 channels	Storage	
Channels)		Disk Group	Yes
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	Alarm	
Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.	General Alarm	Motion detection; privacy masking; local alarm
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception

Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map		
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email		
Port			
Audio Input	1-channel RCA		
Audio Output	1-channel RCA		
Alarm Input	4 channels		
Alarm Output	2 channels		
HDD Interface	$2\mbox{SATA}$ ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.		
RS-232	1		
RS-485	1		
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)		
HDMI	1		
VGA	1		
Network Port	1(10/100/1000 Mbps Ethernet port, RJ-45)		
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE		
General			
Power Supply	100–240 VAC, 47-63 Hz		
Power Consumption	Total output of NVR is \leq 10W (without HDD) Total output power of PoE is 130W, the maximum output power of a single port is 25.5W		
Net Weight	2.66 kg (5.86 lb)		
Gross Weight	3.82 kg (8.42 lb)		
Product Dimensions	375.0 mm × 329.3 mm x 53.0mm (14.76" × 12.96" × 2.09") (W × D × H)		
Packaging Dimensions	449.0 mm × 170.0 mm × 421.0 mm (17.68" × 6.69" × 16.57") (W × D × H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%-93% (RH)		
Installation	Rack or desktop		
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2: 2019+A1: 2021; EN 61000-3-3:2013+A1: 2019+A2: 2021; EN 55035: 2017+A11: 2020; EN 50130-4: 2011+A1: 2014 CE-LVD: EN 62368-1: 2014		