VTU-NVR6408-4D

64CH 8HDD 2U NETWORK VIDEO RECORDER

























Series Overview

The VTU-NVR6408-4D series offers outstanding performance and high-grade recording technology that make it ideal for IP video surveillance applications. It has a powerful processor, that offers high access and forwarding bandwidth and strong decoding capabilities that together produce unimpeded streams. Thanks to its built-in AI chip and

VIZIONTECH's advanced deep learning algorithms, the NVR supports a variety of

Al functions, such as high-precision face recognition and perimeter protection. They shorten the response time to events and make videos more interactive. This NVR is compatible with numerous thirdparty devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

Functions

AcuPick

This industry-leading search technology effectively utilizes both front-end and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.



64CH 8HDD 2U NETWORK VIDEO RECORDER

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30
- Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 32 MP.
- Supports AcuPick with up to 32 channels.
- Supports N+M cluster,iSCSI.
- Support Raid0/1/5/6/10.
- Al by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4channel perimeter protection; 8-channel SMD Plus.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- Supports EPTZ, and one-click arming and disarming.

Face Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition

VIZIONTECH Face Recognition technology extracts the features of captured faces and compares them with that in face database.

Heat Map by Camera

VIZIONTECH heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

ANPR by Camera

With deep learning algorithm, VIZIONTECH ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

SMD Plus

With intelligent algorithm, VIZIONTECH Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

echnical Specification	Technical Specification		Video Metadata	
System Main Processor	Industrial-grade processor	Metadata Performance of AI by Camera (Number of Channels)	8 channels	
Operating System	Embedded Linux	Human Attributes	Top color, top type, bottom color, bottom t	
Operating Interface	Web, Local GUI		bag, age, gender and umbrella License plate, plate color, vehicle body, veh	
AI		Motor Vehicle Attributes	model, vehicle logo, calling, seatbelt, vehicl vehicle registration location.	
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus	Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map	Vehicle License Plate	Comparison	
		ANPR by Camera (Number of Channels)	All channels (8 targets/s)	
AcuPick AI by Camera + Recorder	Max. 32-channel, 1 combined event per channel/s	License Plate Database Capacity	 Create up to 20,000 plate numbers. Blocklist and allowlist 	
Perimeter Protection		Audio and Video		
Perimeter Performance Al	4 40 10 10 10 10 10 10 1	Access Channel	64 channels	
by Recorder (Number of Channels) Perimeter Performance of	4 channels, 10 IVS rules for each channel	Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps and 200 Mbps outgoing	
AI by Camera (Number of Channels)	All channels (16 targets/s)	Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 M MP;1080p;720p;960p;D1;CIF;QCIF	
Face Detection			Al disabled: 2-channel 32 MP@25 fps; 2-channel	
Face Detection	Gender; age group; glasses; expressions; face mask; beard		MP@25 fps; 4-channel 16 MP@30 fps; 5-chann MP@30 fps; 8-channel 8 MP@30 fps; 10-chann MP@30 fps; 12-channel 5 MP@30 fps; 16-chan MP@30 fps; 32-channel 1080p@30 fps Al enabled: 1-channel 32 MP@25 fps; 1-channel MP@25 fps; 2-channel 16 MP@30 fps; 4-channel MP@30 fps; 6-channel 8 MP@30 fps; 8-channel MP@30 fps; 8-channel 5 MP@30 fps; 12-channel	
Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	Decoding Capability		
Face Detection Performance of AI by Camera (Number of Channels)	16 channels		MP@30 fps; 24-channel 1080p@30 fps 2 VGA, 2 HDMI	
Face Recognition		Video Output	$VGA:1920\times1080,1280\times1024,1280\times720\\ HDMI:3840\times2160,1920\times1080,1280\times102\\ Heterogeneous video source output for HDM Simultaneous video source output for VGA1\\ Simultaneous video source output for VGA2$	
Face Database Capacity	Up to 20 face databases with 20,000 images, with a 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.			
Face Recognition Performance of AI by	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	Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64 Sub scre 1/4/8/9/16	
Recorder (Number of Channels)		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco Canon; Hanwha	
Face Recognition	16 channels	Compression Standar	^r d	
Performance of AI by Camera (Number of		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264;	
Channels)		Audio Compression	G.711a; G.711u; PCM; G726	
SMD Plus	9 channels: Cocondant filtering for house a	Network		
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; UDP; NTP; DHCP SMTP; UPnP; DDNS; Alarm Server; IP Search IP camera, DVR, NVS, etc.); Multicast; P2P; A	
			Registration; iSCSI	

Interoperability

ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK

Browser	Chrome; IE; Safari; Edge; Firefox				
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes				
Recording Playback					
Multi-channel Playback	Up to 16 channels				
Record Mode	General, motion detection; intelligent; alarm; POS				
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				
RAID	RAID 0/1/5/6/10				
Alarm					
General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; thermal alarm				
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	2-channel RCA				
Alarm Input	16 channels				
Alarm Output	8 channels (1-channel 12 V 1 A output)				
Disk Interface	8 SATA ports, each disk can contain up to 20 TB. This limit varies depending on the environment temperature.				
eSATA	1				
RS-232	1				
RS-485	2 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)				
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)				
HDMI	2				
VGA	2				
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)				
General					
Power Supply	100–240 VAC, 50-60 Hz				
Power Consumption	Total output of NVR is ≤ 13 W (without HDD)				
Net Weight	6.40 kg (14.11 lb)				

Gross Weight	9.01 kg (19.86 lb)	
Product Dimensions	439.9 mm × 457.9 mm × 89.0 mm (17.32" × 18.03" × 3.50") (W ×D × H)	
Packaging Dimensions	570.0 mm \times 570.0 mm \times 226.0 mm (22.44" \times 22.44" \times 8.90") (W \times D \times 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), non-condensing	
Installation	Rack or desktop	

Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	VTU-NVR6408-4D	64CH 8HDD 2U NETWORK VIDEO RECORDER			

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