

TDNVR24P24KS

24 Channel 1U 2HDDs 24PoE 4K & H.265 Network Video Recorder



TDNVR24P24KS network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Series Overview

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

Functions

Perimeter Protection by Camera

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

Face Recognition by Camera

Face recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

SMD Plus by Camera

With intelligent algorithm, 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.

Video Metadata by Camera

With deep learning algorithm, video metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

- Smart H.265+/Smart H.264+/H.265/H.264/MJPEG; H.265 auto switch
- · Max 320 Mbps incoming bandwidth
- Up to 12MP resolution for live view and playback
- 1-channel fisheye dewarping (AI by NVR)
- Al by Camera: Perimeter protection; face detection and recognition;
 SMD Plus; video metadata; ANPR; people counting; stereo analysis;
 crowd distribution; heat map
- · Support IPC UPnP, 24 PoE ports



ANPR by Camera

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

Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The device offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

People Counting by Camera

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Stereo Analysis by Camara

With deep learning algorithm and scene 3-dimensional information, stereo analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.

Toughdog Viewer Professional

The app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.



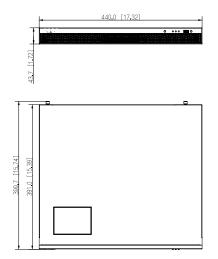
Technical Specification		Compression	
System		Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG
Main Processor	Industrial embedded micro-processor	Audio	PCM; G.711A; G.711U; G.726
Operating System	Embedded Linux	Network	
Operation Interface	Web; local GUI		HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE;
Perimeter Protection by Camera		Network Protocol	DDNS; FTP; Alarm Server; IP Search (Supports IP camera, DVR, NVS, and more.); P2P
Performance	20 channels	Mobile Phone Access	Android; iOS
AI Search	Search for pictures by channel, time and event type	Interoperability	ONVIF (profile T/S/G); CGI; SDK
Face Recognition by Camera		Browser	Chrome; IE9 or later; Firefox
Performance	14 channels	Record Playback	
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard	Multi-channel Playback	1/4/9/16
Al Search	Search for pictures by channel, time and face attributes	Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent; POS)
SMD Plus by Camera		Storage Method	Local HDD and network
Performance	24 channels	Backup	USB device
Al Search	Search by target classification (human, vehicle)		Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (cut/file); partially enlarge; audio on/off
Video Metadata by Cam	era	Playback Function	
Performance	16 channels	Storage	
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella	Disk Group	Yes
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region	Alarm	
Non-motor Vehicle	Type; color; number of passengers; helmet	General Alarm	Motion detection; privacy masking; video loss; local alarm; PIR alarm; IPC alarm
Al Search	Supports searching for target video by metadata	Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly
ANPR by Camera			Perimeter protection; face detection; face
Performance Stereo Analysis by Came	4 channels	Intelligent Alarm	recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle); ANPR; people counting; stereo analysis; crowd distribution;
Performance	16 channels		heat map Record; snapshot; IPC external alarm output;
Al Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence	Alarm Linkage	buzzer; log; preset; email
		External Port	
	detection)	Audio Input	1 channel, RCA connector
Video		Audio Output	1 channel, RCA connector, which supports voice intercom output
Access Channel	24	HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding		temperature
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more	Alarm Input Alarm Output	4 channels 2 channels
Decoding Capability	16-channel@1080P (30 fps)	RS-232	1 channel, used to debug and pass through serial
	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024;		data 1 channel, used to control PTZ, and it supports
Video Output	1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720	RS-485	multiple protocols
Multi-screen Display	1/4/8/9/16/25	USB	1 front USB 2.0 port, 1 rear USB 3.0 port
Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont,	HDMI	1
.,	ONVIF, Canon and more	VGA	1

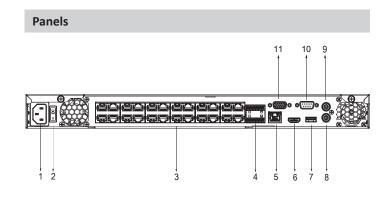


Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port	
PoE	24 ports (IEEE802.3af/at)	
General Parameter		
Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz	
Power Consumption	< 16W (without HDD)	
Net Weight	4.6 kg (10.2 lb) (without HDD)	
Gross Weight	6 kg (13.3 lb) (without HDD)	
Product Dimensions	440 mm × 399.7 mm × 43.7 mm (17.3" × 15.7" × 1.7")	
Package Dimensions	567 mm × 507 mm × 164 mm (22.3" × 20.0" × 6.5")	
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	

Ordering Information			
Туре	Model	Description	
24 Channel NVR	TDNVR24P24KS	24 Channel 1U 24PoE 4K & H.265 Network Video Recorder	

Dimensions (mm[inch])





- 1
 Power Input
 2
 Power Switch

 3
 PoE Ports
 4
 Alarm In/Out

 5
 Network Port
 6
 HDMI Port
- 7
 USB Port
 8
 AUDIO IN, RCA Connector

 9
 AUDIO OUT, RCA Connector
 10
 RS-232 Port
- 11 VGA Port