

# TDNVR16P16KS-EI

## 16 Channels 1U 16PoE 2HDDs Network Video Recorder



#### 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 filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

#### **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.

- $\cdot$  Smart H.265+/H.265/Smart H.264+/H.264/MJP EG decoding format.
- $\cdot$  Max. decoding capability: 32 × 1080p@30 fps or 16 × 4MP@30 fps.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- $\cdot$  Support AcuPick with M ax. 16-Channel.
- · Support N+M cluster.
- Al 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.



#### **Face Recognition**

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

#### Heat Map by Camera

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, ToughDog 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, ToughDog 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.

# TDNVR16P16KS-EI

Technical Specification		Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.
System		Vehicle License Plate Comparison	
Main Processor	Industrial-grade processor	ANPR by Camera (Number	8 channels
Operating System	Embedded Linux	of Channels)	
Operating Interface	Web, Local GUI	License Plate Database Capacity	1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist
AI		Audio and Video	
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus		10
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	Access Channel Network Bandwidth	16 Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
AcuPick AI by Camera + Recorder	Max. 16-channel, 1 combined event per channel/s	Resolution	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) Perimeter Performance of	4 channels, 10 IVS rules for each channel	Decoding Capability	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 AI enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps;4-channel 8 MP@30 fps; 8-channel 5
AI by Camera (Number of Channels)	16 channels		MP@30 fps; 12-channel 4 MP@30 fps
Face Detection	Face Detection		1 VGA, 1 HDMI
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Output	VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720
Face Detection Performance of AI by Recorder (Number of	2 channels (up to 12 face images/s each channel)	Multi-screen Display	Heterogeneous video source output for HDMI and VGA Main screen: 1/4/8/9/16 Sub screen: 1/4/8/9/16
Channels) Face Detection		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung
Performance of AI by Camera (Number of	16 channels	Comp ression S tanda rd	
Channels)		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Recognition		Audio Compression	G.711a; G.711u; PCM; G726
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	Network	
Face Recognition Performance of AI by	state can be added to each face image. 1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports TOUGHDOG IP camera, DVR, NVS,etc.); Multicast; P2P; Auto Registration; iSCSI
Recorder (Number of Channels)	2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Mobile Phone Access	iOS; Android
Face Recognition Performance of AI by Camera (Number of	16 channels	Interoperability	ONVIF 22.06 (Profile T; Profile S; Profile G); CGI; SDK
		Browser	Chrome;IE;Safari;Edge;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 Channels)	8 channels	Storage	
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	Disk Group Alarm	Yes
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

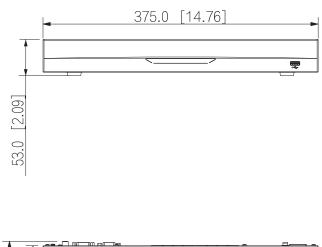
# TDNVR16P16KS-EI

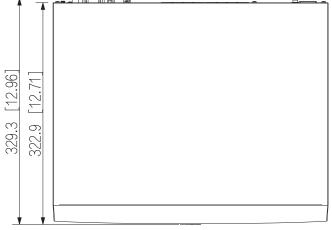
Intelligent Alarmvideo metadata (human, motor vehicles, and non-mot vehicles); SMD Plus; stereo analysis; crowd distribution people counting; ANPRV, vehicle density; heat mapAlarm LinkageRecord; snapshot (panoramic); local alarm output; PC eternal alarm output; access controller; audio; buzzer log, preset; emailPort	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception			
Alarm Linkageexternal alarm output, access controller; audio; buzzer log, preset; emailPortAudio Input1-channel RCAAudio Output1-channel RCAAlarm Input4 channelsAlarm Output2 channelsAlarm Output2 channelsRS-2321RS-4851USB2 (1 front USB 2.0 port, 1 rear USB 3.0 port)HDMI1VGA10/100/1000 Mbps Ethernet port, RJ-45)PoE Port100/2000 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoEPower Supply100-240 VAC, 47-63 HzPower Consumption325.6 kg (5.86 lb)Product Dimensions325.6 nm x 329.3 nm x 53.0 nm (14.76" x 12.96" x 2.09") (W × D × H)Product Dimensions375.0 nm x 329.3 nm x 53.0 nm (14.76" x 12.96" x 2.09") (W × D × H)Poperating Temperature-0"C to +65" C (14 "F to +131 "F)Operating Temperature-0"C to +60" C (-4" T to +140" F)Operating Humidity0%-93% (RH)InstallationRack or desktop	Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution;			
Audio Input         1-channel RCA           Audio Output         1-channel RCA           Alarm Input         4 channels           Alarm Output         2 channels           Alarm Output         2 channels           IADD Interface         2 SATA ports, each disk can contain up to 16 TB. This lir varies depending on the environment temperature.           R5-232         1           R5-485         1           USB         2 (1 front USB 2.0 port, 1 rear USB 3.0 port)           HDDM         1           VGA         1           Network Port         1(10/100/1000 Mbps Ethernet port, RJ -45)           Poer Port         3 copport ePoe           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output foNR is ≤ 10W (without HDD) Total output power of PoE Is 130W, the maximum outprover of PoE Is 130W, the maximum outprover of PoE Is 130W, the maximum outprover of a single port is 25.5W           Net Weight         266 kg (5.86 lb)           Product Dimensions         32.0° (W × D × H)           Product Dimensions         2.0° (W × D × H)           Qperating Temperature         -0° C to +65 °C (14 "F to +131 "F)           Querting Temperature         -0° C to +60 °C (-4 "T to +140 °F)           Querting Temperature         -0° C to +60 °C (-4 "T to +140 °F)	Alarm Linkage	external alarm output; access controller; audio; buzzer;			
Network upper         Instruction           Audio Output         1-channel RCA           Alarm Input         4 channels           Alarm Output         2 channels           HDD Interface         2 SATA ports, each disk can contain up to 16 TB. This Interview           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, RI-45)           PoE Port         16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output of NVR is ≤ 10W (without HDD) Total output power of PoE is 130W, the maximum outprower of a single port is 25.5W           Net Weight         2.66 kg (5.86 lb)           Product Dimensions         3.75.0 mm x 329.3 mm x 53.0mm (14.76" x 12.96" x 16.57" (14" F to +131" F)           Packaging Dimensions         1.05" (14" F to +131" F)           Qoperating Temperature         -20"C to +60"C (-4 "F to +140 "F)           Qoperating Humidity         10% –93% (RH)           Installation         Rack or desktop	Port				
Alarm Input         4 channels           Alarm Output         2 channels           HDD Interface         2 SATA ports, each disk can contain up to 16 TB. This lin           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         100-240 VAC, 47-63 Hz           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         1010 Joutput power of PoE is 130W, the maximum output porta or single port is 25.5W           Net Weight         2 66 kg (5.86 lb)           Product Dimensions         375.0 mm x 329.3 mm x 53.0 mm (14.76" x 12.96" x 10.96" x 10.90" (W × D × H)           Packaging Dimensions         375.0 mm x 329.3 mm x 53.0 mm (14.76" x 12.96" x 10.96" x 10.90" (W × D × H)           Packaging Dimensions         375.0 mm x 329.3 mm x 53.0 mm (14.76" x 12.96" x 10.96" x 1	Audio Input	1-channel RCA			
Alarm Output         2 channels           Alarm Output         2 channels           HDD Interface         2 SATA ports, each disk can contain up to 16 TB. This lin varies depending on the 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           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output of NVR is s 10W (without HDD) 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 x 329.3 mm x 53.0mm (14.76" x 12.96" x 2.09") (W × D × H)           Packaging Dimensions         375.0 mm x 329.3 mm x 53.0mm (14.76" x 12.96" x 2.09") (W × D × H)           Poperating Temperature         -10° C to +55° C (14 "F to +131" F)           Operating Temperature         -20°C to +60° C (-4 "F to +140 "F)           Operating Humidity         10%-93% (RH)           Installation         Rack or desktop	Audio Output	1-channel RCA			
HDD Interface         2 SATA ports, each disk can contain up to 16 TB. This ling varies depending on the 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         165 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE           Gene ral         -           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output of NVR is \$ 10W (without HDD) Total output power of PoE is 130W, the maximum outpower 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 x 329.3 mm x 53.0mm (14.76" x 12.96" x 2.09") (W × D × H)           Operating Temperature         -10 °C to +55 °C (14 °F to +131 °F)           Ioperating Temperature         -20 °C to +60 °C (-4 °F to +140 °F)           Operating Humidity         10% -93% (RH)           Installation         Rack or desktop	Alarm Input	4 channels			
Indumentation         varies depending on the 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           Gene ral         Total output of NVR is < 10W (without HDD) Total output power of PoE is 130W, the maximum output power of PoE is	Alarm Output	2 channels			
RS-485         1           USB         2 (1 front USB 2.0 port, 1 rear USB 3.0 port)           HDMI         1           VGA         1           Network Port         (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           Gene ral         700-240 VAC, 47-63 Hz           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output of NVR is < 10W (without HDD) Total output power of PoE is 130W, the maximum outpower 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 × 53.0mm (14.76" × 12.96" × 209") (W × D × H)           Packaging Dimensions         10°C to +55 °C (14 °F to +131 °F)           Operating Temperature         -10 °C to +55 °C (14 °F to +131 °F)           Operating Humidity         10%-93% (RH)           Installation         Rack or desktop           FCC:47 CFR FCC Part15, SubpartB, Class A CE-EMC:EN S5032; 2015+A1: 2020; EN IEC 61000-3-2:	HDD Interface	2 SATA ports, each disk can contain up to 16 TB. This limit varies depending on the environment temperature.			
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           Gene ral         100-240 VAC, 47-63 Hz           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output of NVR is < 10W (without HDD) Total output power of PoE is 130W, the maximum	RS-232	1			
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           Gene ral	RS-485	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           Gene ral	USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)			
Network Port         I (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           Gene ral	HDMI	1			
PoE Port         Isports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports           Power Supply         100-240 VAC, 47-63 Hz           Power Supply         100-240 VAC, 47-63 Hz           Power Consumption         Total output of NVR is < 10W (without HDD) Total output power of POE is 130W, the maximum outpower 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 × 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)           Operating Humidity         10% -93% (RH)           Installation         Rack or desktop           KC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015 + A1: 2020; EN IEC 61000-3-2;	VGA	1			
Pote Portsupport ePoESupport ePoEGene ralPower Supply100–240 VAC, 47-63 HzPower ConsumptionTotal output of NVR is < 10W (without HDD) Total output power of PoE is 130W, the maximum outp power of a single port is 25.5WNet Weight2.66 kg (5.86 lb)Gross Weight3.82 kg (8.42 lb)Product Dimensions375.0 mm × 329.3 mm × 53.0mm (14.76" × 12.96" × 2.09") (W × D × H)Packaging Dimensions449.0 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 Humidity10%-93% (RH)InstallationRack or desktopFCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN S5032: 2015+A1: 2020; EN IEC 61000-3-2:	Network Port	1(10/100/1000 Mbps Ethernet port, RJ-45)			
Power Supply100–240 VAC, 47-63 HzPower ConsumptionTotal output of NVR is ≤ 10W (without HDD) Total output power of PoE is 130W, the maximum outpower of a single port is 25.5WNet Weight2.66 kg (5.86 lb)Gross Weight3.82 kg (8.42 lb)Product Dimensions375.0 mm × 329.3 mm × 53.0mm (14.76" × 12.96" × 2.09") (W × D × H)Packaging Dimensions449.0 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 Humidity10% -93% (RH)InstallationRack or desktopFCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015 + A1: 2020; EN IEC 61000-3-2:	PoE Port				
Power ConsumptionTotal output of NVR is ≤ 10W (without HDD) Total output power of PoE is 130W, the maximum output power of a single port is 25.5WNet Weight2.66 kg (5.86 lb)Gross Weight3.82 kg (8.42 lb)Product Dimensions375.0 mm × 329.3 mm × 53.0mm (14.76" × 12.96" × 2.09") (W × D × H)Packaging Dimensions449.0 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 Humidity10% -93% (RH)InstallationRack or desktopFCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015 + A1: 2020; EN IEC 61000-3-2:	General				
Power ConsumptionTotal output power of PoE is 130W, the maximum output power of a single port is 25.5WNet Weight2.66 kg (5.86 lb)Gross Weight3.82 kg (8.42 lb)Product Dimensions375.0 mm × 329.3 mm × 53.0mm (14.76" × 12.96" × 2.09") (W × D × H)Packaging Dimensions449.0 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 Humidity10% -93% (RH)InstallationRack or desktopFCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015 + A1: 2020; EN IEC 61000-3-2:	Power Supply	100–240 VAC, 47-63 Hz			
Gross Weight         3.82 kg (8.42 lb)           Product Dimensions         375.0 mm × 329.3 mm × 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           FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015 + A1: 2020; EN IEC 61000-3-2:	Power Consumption	Total output power of PoE is 130W, the maximum output			
Product Dimensions         375.0 mm × 329.3 mm × 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           FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015 + A1: 2020; EN IEC 61000-3-2:	Net Weight	2.66 kg (5.86 lb)			
Product Dimensions2.09") (W × D × H)Packaging Dimensions449.0 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 Humidity10%-93% (RH)InstallationRack or desktopFCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Gross Weight	3.82 kg (8.42 lb)			
Packaging Dimensions     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       FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Product Dimensions				
Storage Temperature     -20 °C to +60 °C (-4 °F to +140 °F)       Operating Humidity     10%-93% (RH)       Installation     Rack or desktop       FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Packaging Dimensions				
Operating Humidity     10%–93% (RH)       Installation     Rack or desktop       FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)			
Installation     Rack or desktop       FCC: 47 CFR FCC Part15, SubpartB, Class A       CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)			
FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Operating Humidity	10%-93% (RH)			
CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2:	Installation	Rack or desktop			
	Certifications	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			

### **Ordering Information**

Туре	Model	Description
16 Channels NVR	TDNVR16P16KS-EI	16 Channels 1U 16 PoE 2HDDs Network Video Recorder

### Dimensions (mm[inch])





#### Panels

