

# PIX-NVR646KI

64 Channels 2U 8HDDs Network Video Recorder



#### **Series Overview**

The NVR 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 Pixvideo's advanced deep learning algorithms, the NVR supports a variety of AI 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 third-party devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

#### Functions

#### **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 Recognition**

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

- 32-channel 1080p self-adaptive decoding capability.
- Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth.
- Supports N+M cluster.
- Support Raid0/1/5/6/10.
- Drawer-like chassis design allows for HDD hot swapping.
- Al by recorder: 4-channel face detection and recognition; 8channel metadata; 24-channel perimeter protection; 32channel SMD Plus.
- Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, and people counting.



### Video Metadata

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

#### Heat Map by Camera

Pixvideo 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, Pixvideo 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, Pixvideo 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.

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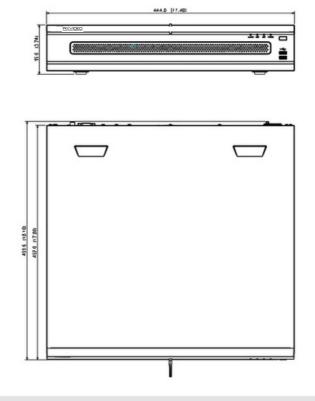
SystemMine RecessorMine ReceissorMine Receissor	Technical Specification		Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling,
Mater Processorindustralgrade processorOperating ProcessorWeb/coll Clarence Plate DatabaseAll processorScience Plate DatabaseAll processorParticle Science Plate DatabasePerimeter ProferomateScience Plate DatabaseAll processorScience Plate DatabaseConsender Plate DatabaseScience Pl	System			Vehicle model, vehicle color, number of persons, helmet.
Operating SystemMicholds LinxiAMPN by Camera (build of Channel)21 channelsAlAdditionAddition of ChannelsBiolistic and allowise: 20,000Al by ReorderAnd descens fisce reception, uside metadad pursues motor which survey and non-motor which sign fisce descensing fisce reception, uside metadad pursues motor which survey and non-motor which sign fisce descensing fisce reception with the metadad pursues 	Main Processor	Industrial-grade processor		
Operating interface     With Loss Guilling     Mumber of Channels)     Mumber of Channels)     Addition       All by Recorder     Free detection, for encoginour, vision metadate, human, motor values, and non-motor values, soft on motor values, soft on values, soft on motor values, soft on values,	Operating System	Embedded Linux		e Comparison
Couparity     Bootst and allowing 2000       Al by Recorder Al by Camera Al by Record Putton Al by Record Putt	Operating Interface	Web, Local GUI		32 channels
Air Oyn ControlAudio and ViceoAl by CameraFace detection, fee exception, Volume meddate (Juno) is area analysis, and non-motor whitely, SUO Mays, is area analysis, could stratistical year exception of ViceoAccess ChannelA daabet: SOO Maps according and 400 Maps recording and 400 Maps r	AI			Blocklist and allowlist: 20,000
All by Camera Notice Weides, and non-motor whichelly, 300 Puix, steere an adjust, consider Weide Sanzy, object monitoring, page counting, All by Kansel Network Bandwith Network Bandwith   Perimeter Profermance of Channelly 24 channels, DIV5 rules for each channel Network Bandwith Network Bandwith   Perimeter Profermance of Channelly 24 channels, DIV5 rules for each channel Network Bandwith Network Bandwith   Perimeter Profermance of Channelly 24 channels, DIV5 rules for each channel Network Bandwith Network Bandwith   Perimeter Profermance of Channelly 24 channels, DIV5 rules for each channel Network Bandwith Network Bandwith   Face Detection Sectomed (Winher 24 channel Stapp 20 (p), 2-channel 32 MPB30 (p), 2				
Perimeter Protection <td>AI by Camera</td> <td>motor vehicles, and non-motor vehicles); SMD Plus;</td> <td>Access Channel</td> <td></td>	AI by Camera	motor vehicles, and non-motor vehicles); SMD Plus;	Access Channel	
Perimeter Performance Al by Recorder (Number Channels)     2 duanels, 10 VS rules for each channel (Channels)     32 MP, 24 MP, 16 MP, 12 MP, 16 MP, 15 MP, 14 MP, 1080p, 720, 101 MP, 20 MP, 16 MP, 20 MP, 16 MP, 20 MP, 16 MP, 20 MP, 720, 101 MP, 20 MP, 16 MP, 20 MP, 16 MP, 20 MP, 16 MP, 20 MP, 16 channels)       Perimeter Performance (Number of Channels)     6 channels     6 channels     2 channel 32 MP, 20 MP, 16 MP, 12 MP, 16 MP, 15 MP, 14 MP, 1080p, 16 channels MP, 20 MP, 16 MP,	Perimeter Protectio		Network Bandwidth	and 800 Mbps outgoing Al enabled: 512 Mbps incoming, 512 Mbps recording and
At by Keeder (number Channels)2-dimense, 101's fuels for each channel channels)2-dimense 2-dimen			Devel 41 -	
Permension of All by Cammers     64 channels		24 channels, 10 IVS rules for each channel	Resolution	720p; D1
Face Detection   Face Attributes   Gender; age group; glasse; expression; face mask; beard     Face Attributes   Gender; age group; glasse; expression; face mask; beard     Face Detection   Face Detection     Performance of Al by   A channels (up to 12 face images/s each channel)     Face Detection   64 channels (up to 12 face images/s each channel)     Face Detection   64 channels (up to 12 face images/s each channel)     Face Detection   64 channels     Face Detection   64 channels     Face Detection   1.20 channels / Dip camera) + FR (by recorder), image stress with a 00,000 images, with a face image.     Face Detection   1.20 channels / Dip camera) + FR (by recorder), image stress with a 00,000 images, with a face image.     Face Recognition   1.20 channels / Dip camera) + FR (by recorder), image stress stress of a dip camera) + FR (by recorder), image stress stress of a dip camera) + FR (by recorder), image stress stress of a dip camera) + FR (by recorder), image stress stress of a dip camera) + FR (by recorder), image stress stress of a dip camera) + FR (by recorder), image stress stress of a dip camera) + FR (by recorder), image stress stress stress of a dip camera) + FR (by recorder), image stress stres	of AI by Camera	64 channels	Decoding Capability	4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps;
Face Attributes   Gender, age group; glasse; expression; face mask; beard     Face Detection   A channels (up to 12 face images/s each channel)     Face Detection   A channels (up to 12 face images/s each channel)     Face Detection   Gender, age group; glasse; expression; face mask; beard     Wieeo Output   Main screen: 1/4/8/15/15/16/64     Face Detection   Gender, age group; glasse; expression; face mask; beard     Performance of Al by Recorder (Number of Channels)   Gender, age group; glasse; expression; face mask; beard     Pace Detection   Gender, age group; glasse; expression; face mask; beard     Performance of Al by Recorder (Number of Channels)   Gender, age group; glasse; expression; face mask; beard     Pace Detection   Gender, age group; glasse; expression; face mask; beard     Pace Detection   Gender, age group; glasse; expression; face mask; beard     Pace Detection   Gender, age group; glasse; expression; face mask;     Pace Detection   Gender, age group; glasse; expression; face mask;     Pace Detection   Up to 40 face databases with 300,000 images, with a total capacity of 30, Name, gender, brindway, address, credertail No, countries & regions and state can be added total capacity of 30, Name, gender, brindway, address, credered attabase; countries & regions and state can be added total secognition   Gender H2005, Sim at H 265+, H265, Sim at H 265+, H265, Sim at H264+, H264, MPEG4, MPEG <td></td> <td></td> <td></td> <td rowspan="2">Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDM11 and HDM12 is 4K max. resolution of HDM13 is 8K</td>				Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDM11 and HDM12 is 4K max. resolution of HDM13 is 8K
Face Detection Performance of Al by Recorder (Number of Channels)   4 channels (up to 12 face images/s each channel)   Heterogenous mode: Smultaneous wdos ource output for VGA2 and HDMI2 Smultaneous wdos ource output for VGA2 sub ource output for VGA2 and HDMI2 smultaneous wdos ource output for VGA2 sub ource output for VGA2 and HDMI2 sub ource output for VGA2 sub output for VGA2 sub ource output for VGA2 sub output for VGA2 sub output for VGA2 sub ou	Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Output Video Output Video Output Max. resolution of HDMI3 is 8K max. resolution of HDMI4 is1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 max. resolution of VGA1 and VGA2 is 1080p,	
Performance of Al by Camera (Number of Channels)   64 channels   Multi-screen Display   Multi-screen: Multisplay   Multi-screen: Multisplay   Multi-screen: Multisplay   Multi-screen: Multisplay   Multi-screen: Multisplay	Performance of Al by Recorder (Number of Channels)	4 channels (up to 12 face images/s each channel)		
Face Recognition   Third-party Camera   ONVIF, RTSP, Sony, Axis, Arecont, Pelco, Canon, Samsung     Face Recognition   Lip to 40 face databases with 300,000 images, with a total capacity of 8.6. Name, gender, birthday, address, credential type, credentistype, type, credential type, credential typ	Performance of AI by Camera (Number of	64 channels	Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64
Face Database Capacity   Up to 40 face databases with 300,000 images, with a total capacity of 45 G. Name, gender, birthday, address, credential No., countries & regions and state can be added to each face image.   Video Compression   Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MPEG4; MPEG4; MPEG4; MPEG4; MPEG4     Face Recognition   1.20 channels FD (by camera) + FR (by recorder), image face images/s   Audio Compression   G.711a; G.711u; PCM; G.726     Face Recognition   1.20 channels FD (by recorder) + FR (by recorder), video stream: 21 face images/s   Network   Network     Face Recognition   64 channels   64 channels   64 channels   Network     SMD Plus by Recorder   32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change   Network Mode   Network Mode     Video Metadata   64 channels   Schannels   Recording Playback   Recording Playback     Video Metadata   64 channels   Recording Playback   Multi-address mode, load balance, fault tolerance and other network port binding modes     Knumber of Channels)   32-channels   Schannels   Multi-adannel Playback   Multi-adares     Knumber of Channels   32-channels   Schannels   Multi-adares   Multi-adares     Knumber of Channels   Schannels   Schannels   Sc				ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung
Face Database Capacity   total capacity of 48 G. Name, gender, birthday, address, credential No., countries & regions and state can be added to each face image.   Video Compression   Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MPEG4; MPEG4; MPEG4     Face Recognition   1.20 channels FD (by cenera) + FR (by recorder), image stream: 0.21 ceimages/s   Audio Compression   G.711a; G.711a; PCM; G726     Face Recognition   1.20 channels FD (by recorder), FR (by recorder), video stream: 12 face images/s   Network   Network     Face Recognition   64 channels PD (by recorder) + FR (by recorder), video stream: 12 face images/s   HTTP; HTTPS; TCP/IP; IPV4, RTSP; UDP; NTP; DHCP; DNS; SMTP; UDPAP; DNS; SMTP; UDPAP; DNS; SMTP; UDPAP; DNS; SMTP; UDPAP; DNS; Start H.264+; H.264; MPEG4; MPEG4; MPEG4; MPEG4; MPEG4     Face Recognition   64 channels   HTTP; HTTPS; TCP/IP; IPV4, RTSP; UDP; NTP; DHCP; DNS; SMTP; UDPAP; DNS; SMTP; UDPAP; DNS; SMTP; UDPAP; DNS; Start H.264+; H.264; MPEG4;				
Face Recognition Performance of Al by Recorder (Number of Channels)1.20 channels FD (by recorder), image stream: 20 face images/s 2.4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s 2.4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/sAudio CompressionG.711a; G.711u; PCM; G726Face Recognition Performance of Al by Camera (Number of Channels)64 channels64 channelsHTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP, NTP; DHCP; DNS; SAIrm Server; IP Search (Supports Dabual P camera, DVR, NV, set.); Multicast; P2P; Auto Registration; ISCSISMD Plus SMD Plus by Recorder32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting conduction changeInteroperabilityONVIF (Profile S/profile T/Profile G); CG; SDKSMD Plus by Camera of Al by Recorder (Number of Channels)64 channelsRecording false alarms caused by leaves, rain and lighting conduction changeNetwork ModeNutl-address mode, load balance, fault tolerance and other network port binding modesVide O Metadata Of Al by Recorder (Number of Channels)8 channelsRecording PlaybackMulti-address mode, load balance, fault tolerance and other network port binding modesMetadata Performance of Al by Recorder (Number of Channels)8 channelsRecord ModeMulti-adareslMetadata Performance of Al by Recorder (Number of Channels)2 channelsPalsePalseMetadata Performance of Al by Camera (Number of Channels)2 channelsPalsePalseMetadata Performance of Al by Camera (Number of Channels)2	Face Database Capacity	credential tγpe, credential No., countries & regions and state can be added		Smart H.265+; H.265; Smart H.264+; H.264; MPEG4;
Performance of Al by Recorder (Number of Channels)   stream: 20 face images/s 2.4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s   Network   Metwork     Face Recognition Performance of Al by Camera (Number of Channels)   64 channels   64 channels   64 channels   Network Protocol   HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UDP; DNS; Alarm Server; IP Search (Supports) Degistration; ISCSI     SMD Plus   64 channels   64 channels   Network Protocol   Notif (Profile S/profile T/Profile G); CG; SDK     SMD Plus by Recorder (Number of CAl DR by Camera (Number of Channels)   32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change   Interoperability   ONVIF (Profile S/profile T/Profile G); CG; SDK     SMD Plus by Camera (Alub Plus by Camera (Number of Channels)   64 channels   Kecording Playback   Muti-address mode, load balance, fault tolerance and other network port binding modes     Metadata Performance of Al by Recorder (Number of Channels)   8 channels   8 channels   Muti-channel Playback   Muti-channel Playback     Metadata Performance of Al by Camera (Number of Channels)   2 channels   2 channels   Portable hard drive, eSATA disk, burner, USB device and network     Metadata Performance of Al by Camera (Number of Channels)   2 channels   Portable hard drive, eSATA disk, burner, USB device and network			Audio Compression	G.711a; G.711u; PCM; G726
Channels)   stream: 12 face images/s   HTTP; HTTPS; TCP/P; IPV4; KTSP; UDP; NTP; DUPC; DNS; SMTP; UPP; DDNS; JAmm Server; IPS Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast, P2P; Auto Registration; ISCSI     Face Recognition Performance of Al by Camera (Number of Channels)   64 channels   Model Phone Access   IOS; Android     SMDP Plus   32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change   Motore Provide Prove Provide Provide Prove Provide Provide Prove Provide Provide Pro	Performance of AI by	stream: 20 face images/s		
Camera (Number of Channels)   64 channels   Mobile Phone Access   IDS; Android     SMD Plus   Interoperability   ONVIF (Profile S/profile T/Profile G); CGI; SDK     SMD Plus by Recorder   32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change   Browser   Chrome IE 9 or later Firefox     SMD Plus by Camera   64 channels   64 channels   Multi-address mode, load balance, fault tolerance and other network port binding modes     SMD Plus by Camera   64 channels   Recording Playback   Multi-address mode, load balance, fault tolerance and other network port binding modes     Vide o Metadata   effortamels   Browser   Recording Playback     Metadata Performance of Al by Recorder   achannels   Backup Method   Manual; alarm; motion detection; scheduled     Metadata Performance of Al by Camera   32 channels   32 channels   Backup Method   Portable hard drive, eSATA disk, burner, USB device and network     Metadata Performance of Al by Camera   32 channels   Backup Method   Portable hard drive, eSATA disk, burner, USB device and network     Metadata Performance of Al by Camera   Backup Method   Playback Mode   Interoperability play frame	Channels) Face Recognition		Network Protocol	SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto
SMD Plus   Interoperability   ONVIF (Profile S/profile T/Profile G); CG; SDK     SMD Plus by Recorder   32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change   Browser   Is or later Firefox     SMD Plus by Camera   64 channels   64 channels   Multi-address mode, load balance, fault tolerance and other network port binding modes     Video Metadata   Fireformance of Al by Recorder (Number of Channels)   8 channels   Multi-channel Playback   Up to 16 channels     Metadata Performance of Al by Recorder (Number of Channels)   8 channels   Record Mode   Multi-channel Playback     Metadata Performance of Al by Camera   8 channels   8 channels   Record Mode   Interoperability     Metadata Performance of Al by Camera   8 channels   8 channels   Record Mode   Multi-channel Playback     Network for Mode   1 play, pause, stop, fast forward, fast backward, rewind, play by frame   Portable hard drive, eSATA disk, burner, USB device and network	Camera (Number of	64 channels	Mobile Phone Access	iOS; Android
SMD Plus by Recorder   32-channel: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change   Browser   IE 9 or later Firefox     SMD Plus by Camera   64 channels   64 channels   Network Mode   Multi-address mode, load balance, fault tolerance and other network port binding modes     Vide o Metadata   Video Metadata   Shannels   Recording Playback   Up to 16 channels     Metadata Performance of Al by Recorder (Number of Channels)   8 channels   Multi-channel Playback   Up to 16 channels     Metadata Performance of Al by Camera   8 channels   Annels   Multi-channel Playback   Ip to 16 channels     Metadata Performance of Al by Camera   8 channels   8 channels   Ip to 16 channels   Ip to 16 channels     Metadata Performance of Al by Camera   8 channels   8 channels   Ip to 16 channels   Ip to 16 channels     Metadata Performance of Al by Camera   8 channels   8 channels   Ip to 16 channels   Ip to 16 channels     Metadata Performance of Al by Camera   8 channels   10 playback   Ip to 16 channels   Ip to 16 channels     Metadata Performance of Al by Camera   8 channels   10 playback Mode   Ip to 16 channels   Ip to 16 channels   Ip to 16 channels			Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK
SMD Plus by Camera 64 channels Network Mode Multi-address mode, load balance, fault tolerance and other network port binding modes   Vide 0 Metadata 64 channels Recording Playback Recording Playback   Metadata Performance of Al by Recorder (Number of Channels) 8 channels Multi-address mode, load balance, fault tolerance and other network port binding modes   Metadata Performance of Al by Camera (Number of Channels) 8 channels Multi-address mode, load balance, fault tolerance and other network port binding modes   Metadata Performance of Al by Camera (Number of Channels) 8 channels Multi-address mode, load balance, fault tolerance and other network port binding modes   Metadata Performance of Al by Camera (Number of Channels) 8 channels Multi-address mode, load balance, fault tolerance and other network port binding modes   Metadata Performance of Channels) 8 channels Multi-address mode, load balance, fault tolerance and network   Metadata Performance of Al by Camera 82 channels Backup Method Portable hard drive, eSATA disk, burner, USB device and network   I. Play, pause, stop, fast forward, fast backward, rewind, play by frame Playback Mode Playback Mode		vehicle , reducing false alarms caused by leaves, rain and	Browser	IE 9 or later
Video Metadata   Recording Playback     Metadata Performance of Al by Recorder (Number of Channels)   8 channels   Multi-channel Playback   Up to 16 channels     Metadata Performance of Al by Camera (Number of Channels)   32 channels   Record Mode   Manual; alarm; motion detection; scheduled     Metadata Performance of Al by Camera (Number of Channels)   32 channels   Backup Method   Portable hard drive, eSATA disk, burner, USB device and network     I. Play, pause, stop, fast forward, fast backward, rewind, play by frame   I. Play, pause, stop, fast forward, fast backward, rewind, play by frame	SMD Blue by Comoro		Network Mode	
Metadata Performance of Al by Recorder (Number of Channels)   & channels   Multi-channel Playback   Up to 16 channels     Metadata Performance of Al by Camera (Number of Channels)   32 channels   Record Mode   Manual; alarm; motion detection; scheduled     Metadata Performance of Al by Camera (Number of Channels)   32 channels   Backup Method   Portable hard drive, eSATA disk, burner, USB device and network     I. Play, pause, stop, fast forward, fast backward, rewind, play by frame   Playback Mode   Playback Mode		of charmens	Recording Playback	-
Netaduate Ferromance of Al by Recorder (Number of Channels) 8 channels Record Mode Manual; alarm; motion detection; scheduled   Metadata Performance of Al by Camera (Number of Channels) 32 channels Backup Method Portable hard drive, eSATA disk, burner, USB device and network   1. Play, pause, stop, fast forward, fast backward, rewind, play by frame Payback Mode Playback Mode				Up to 16 channels
of Al by Camera (Number of Channels) 32 channels 32 channels 1. Play, pause, stop, fast forward, fast backward, rewind, play by frame	of AI by Recorder	8 channels	• • • • •	
play by frame	of AI by Camera	32 channels	Backup Method	network
2. Full screen, backup (cut/file), partially enlarge, audio on/off	(Number of Channels) Human Attributes	Top color, top type, hat, bag, age, gender and umbrella	Playback Mode	play by frame 2. Full screen, backup (cut/file), partially enlarge, audio

# **PIX-NVR646KI**



## Dimensions (mm[inch])

Storage				
Disk Group	Yes			
RAID	RAID 0/1/5/6/10			
Hot Swapping	Yes			
Alarm				
General Alarm	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm			
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan			
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); SMD Plus alarms; ANPR; people counting; stereo analysis; crowd distribution; heat map			
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log, preset; email			
Port				
Audio Input	1-channel RCA			
Audio Output	2-channel RCA			
Alarm Input	16 channels			
Alarm Output	8 channels			
HDD Interface	8 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.			
eSATA	1			
RS-232	1			
RS-485	1×A/B			
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)			
HDMI	4			
VGA	2			
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)			
General				
Power Supply	100-240 VAC, 50/60 Hz			
Power Consumption	<18 W (without HDD)			
Net Weight	6.4 kg (14.11 lb) (without HDD)			
Gross Weight	10.35 kg (22.82 lb) (without HDD)			
Product Dimensions	444.0 mm $\times$ 456.6 mm x 95.0 mm (17.48" $\times$ 17.98" $\times$ 3.74") (W $\times$ D $\times$ H)			
Packaging Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (W × D × H)			
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)			
Operating Humidity	10%-93% (RH)			
Installation	Rack or desktop			
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2020, Class A; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014+A11:2017			



## Panels

