HIKVISION

DS-7732NXI-K4
32-ch 1.5U K Series AcuSense 4K NVR

Key Feature

- Up to 32-ch IP camera inputs
- H.265+/H.265/H.264+/H.264 video formats
- Up to 2-ch@12 MP or 3-ch@8 MP or 6-ch@4 MP or 12-ch@1080p decoding capacity
- Up to 256 Mbps incoming bandwidth
- Adopt Hikvision Acusense technology to minimize manual effort and security costs

Smart Function

- All channels support Motion Detection 2.0
- 2-ch video analysis for human and vehicle recognition to reduce false alarm
- 1-ch facial recognition for video stream, or 4-ch facial recognition for face picture
- Smart search for the selected area in the video, and smart playback to improve the playback efficiency

Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Adopt stream over TLS encryption technology which provides more secure stream transmission service

HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- Up to 4 SATA interfaces for HDD connection (up to 10 TB capacity per HDD)
- 16-ch synchronous playback

Network & Ethernet Access

- 2 self-adaptive 10/100/1000 Mbps Ethernet interfaces
- Hik-Connect for easy network management

▪ Specification

Intelligent Analytics

AI by Device	Facial recognition, perimeter protection, motion detection 2.0
AI by Camera	Facial recognition, perimeter protection, video structuralization, throwing objects from building, motion detection 2.0, VCA

Facial Recognition

Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
Face Picture Library	Up to 16 face picture libraries, with up to 20,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 1 GB)
Facial Detection and Analytics Performance	1-ch, 8 MP
Face Picture Comparison	4-ch face picture comparison alarm

Motion Detection 2.0

By Device	All channels, up to 4 MP (when enhanced SVC mode is enabled, up to 8 MP)
By Camera	All channels

Perimeter Protection

By Device	Up to 2-ch 4 MP (HD network camera, H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm
By Camera	All channels

Video and Audio

IP Video Input	32-ch
Incoming Bandwidth	256 Mbps
Outgoing Bandwidth	160 Mbps
HDMI Output	1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA Output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz
Video Output Mode	HDMI/VGA independent output
CVBS Output	N/A
Audio Output	1-ch, RCA (Linear, 1 KΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input)

Decoding

Decoding Format	H.265/H.265+/H.264+/H.264
Recording Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	16-ch

Decoding Capability	AI on: 1-ch@12 MP (30 fps)/2-ch@8 MP (30 fps)/4-ch@4 MP (30 fps)/8-ch@1080p (30 fps)
	AI off: 2-ch@12 MP (30 fps)/3-ch@8 MP (30 fps)/6-ch@4 MP (30 fps)/12-ch@1080p (30 fps)
Stream Type	Video, Video & Audio
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726/AAC

Network

Remote Connection	128
API	ONVIF (profile S/G); SDK; ISAPI
Compatible Browser	IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network Interface	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interfaces

Auxiliary Interface

SATA	4 SATA interfaces
Capacity	Up to 10 TB capacity for each HDD
Serial Interface	2 RS-485 (half-duplex), 1 RS-232
Alarm In/Out	16/4 (16/9 is optional)
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
Ctrl 12V	N/A (optional to support)
DC 12V	N/A (optional to support)

General

GUI Language	English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz , Brazilian Portuguese, Indonesian
Power Supply	100 to 240 VAC, 50 to 60Hz
Consumption	≤ 20 W (without HDD)
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10 to 90 %
Dimension (W × D × H)	445 × 400 × 75 mm (17.5"× 15.7" × 3.0")
Weight	≤ 5 kg (without HDD, 11 lb.)

Certification

|	
FCC	Part 15 Subpart B, ANSI C63.4-2014
CE	EN 55032: 2015. EN 61000-3-2. EN 61000-3-3. EN 50130-4. EN 55035: 2017

Obtained Certification	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS

Note:

- Alarm in/out can be optional for certain models. If you select a device model with "/Alarm16+9", then the device will have 16 alarm inputs and 9 alarm outputs.
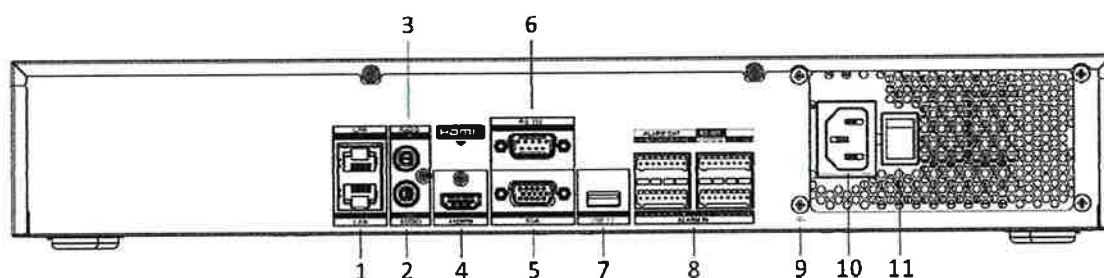- Facial recognition, motion detection 2.0 or perimeter protection cannot be enabled at the same time.

Dimension
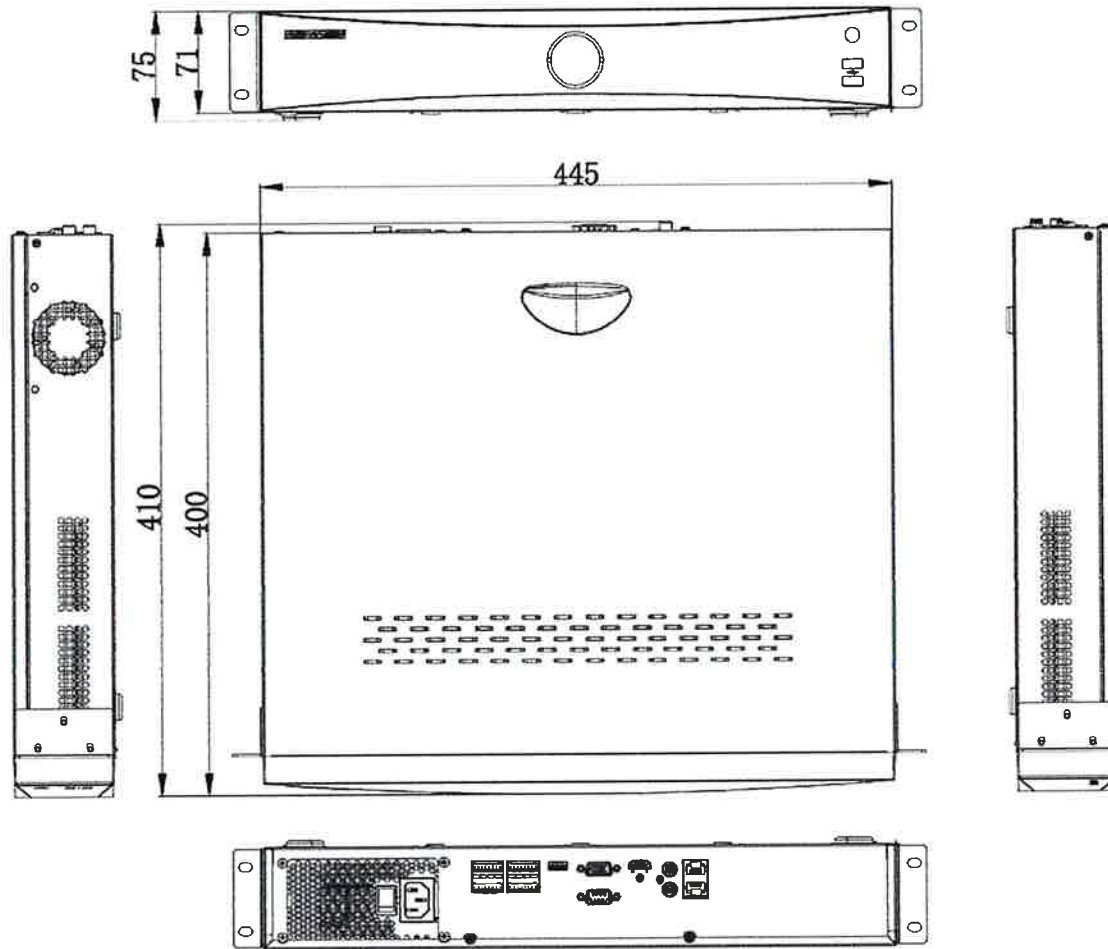
scale/1: 1; Unit/mm

Physical Interface

No.	Description	No.	Description
1	LAN 1 and LAN 2 interfaces	7	USB 3.0 interface
2	Audio in	8	Alarm in; alarm out and RS-485
3	Audio out	9	GND
4	HDMI interface	10	Power supply
5	VGA interface	11	Power switch
6	RS-232 serial interface		

Available Model

DS-7732NXI-K4

DS-7616NXI-K2/16P
AcuSense NVR

Key Feature

- Up to 16-ch IP camera inputs, plug & play with 16 power-over-Ethernet (PoE) interfaces
- H.265+/H.265/H.264+/H.264 video formats
- Up to 2-ch@12 MP or 3-ch@8 MP or 6-ch@4 MP or 12-ch@1080p decoding capacity
- Up to 160 Mbps incoming bandwidth
- Adopt Hikvision Acusense technology to minimize manual effort and security costs

Smart Function

- All channels support Motion Detection 2.0
- 2-ch video analysis for human and vehicle recognition to reduce false alarm
- 1-ch facial recognition for video stream, or 4-ch facial recognition for face picture
- Smart search for the selected area in the video, and smart playback to improve the playback efficiency

Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Adopt stream over TLS encryption technology which provides more secure stream transmission service

HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 4K resolution

Storage and Playback

- Up to 2 SATA interfaces for HDD connection (up to 10 TB capacity per HDD)
- 16-ch synchronous playback

Network & Ethernet Access

- 16 independent PoE network interfaces
- 1 self-adaptive 10/100/1000 Mbps Ethernet interface
- Hik-Connect for easy network management

▪ Specification

Intelligent Analytics

AI by Device	Facial recognition, perimeter protection, motion detection 2.0
AI by Camera	Facial recognition, perimeter protection, throwing objects from building, motion detection2.0, ANPR, VCA

Facial Recognition

Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
Face Picture Library	Up to 16 face picture libraries, with up to 20,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 1 GB)
Facial Detection and Analytics Performance	1-ch, 8 MP
Face Picture Comparison	4-ch

Motion Detection 2.0

By Device	All channels, 4 MP (when enhanced SVC mode is enabled, up to 8 MP) video analysis for human and vehicle recognition to reduce false alarm
By Camera	All channels

Perimeter Protection

By Device	2-ch, 4 MP (HD network camera, H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm
By Camera	All channels

Video and Audio

IP Video Input	16-ch
Incoming Bandwidth	160 Mbps
Outgoing Bandwidth	160 Mbps
HDMI Output	1-ch, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz
VGA Output	1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz
Video Output Mode	HDMI/VGA independent output
CVBS Output	N/A
Audio Output	1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input)
Two-Way Audio	1-ch, RCA (Linear, 1 KΩ)

Decoding

Decoding Format	H.265/H.265+/H.264+/H.264
Recording Resolution	12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	16-ch

Decoding Capability	AI on: 1-ch@12 MP (30 fps)/2-ch@8 MP (30 fps)/4-ch@4 MP (30 fps)/8-ch@1080p (30 fps)
	AI off: 2-ch@12 MP (30 fps)/3-ch@8 MP (30 fps)/6-ch@4 MP (30 fps)/12-ch@1080p (30 fps)
Stream Type	Video, Video & Audio
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726/AAC

Network

Remote Connection	128
API	ONVIF (profile S/G); SDK; ISAPI
Compatible Browser	IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network Interface	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface

PoE

Interface	16, RJ-45 10/100 Mbps self-adaptive Ethernet interface
Power	≤ 200 W
Standard	IEEE 802.3af/at

Auxiliary Interface

SATA	2 SATA interfaces
Capacity	Up to 10 TB capacity for each HDD
USB Interface	Front panel: 1 × USB 2.0; Rear panel: 1 × USB 2.0
Alarm In/Out	4/1

General

GUI Language	English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz , Brazilian Portuguese, Indonesian
Power Supply	100 to 240 VAC, 50 to 60 Hz
Consumption	≤ 15 W (without HDD and PoE off)
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% to 90%
Dimension (W × D × H)	385 mm × 315 mm × 52 mm (15.2"× 12.4" × 2.0")
Weight	≤ 3 kg (without HDD, 6.6 lb.)

Certification

FCC	Part 15 Subpart B, ANSI C63.4-2014

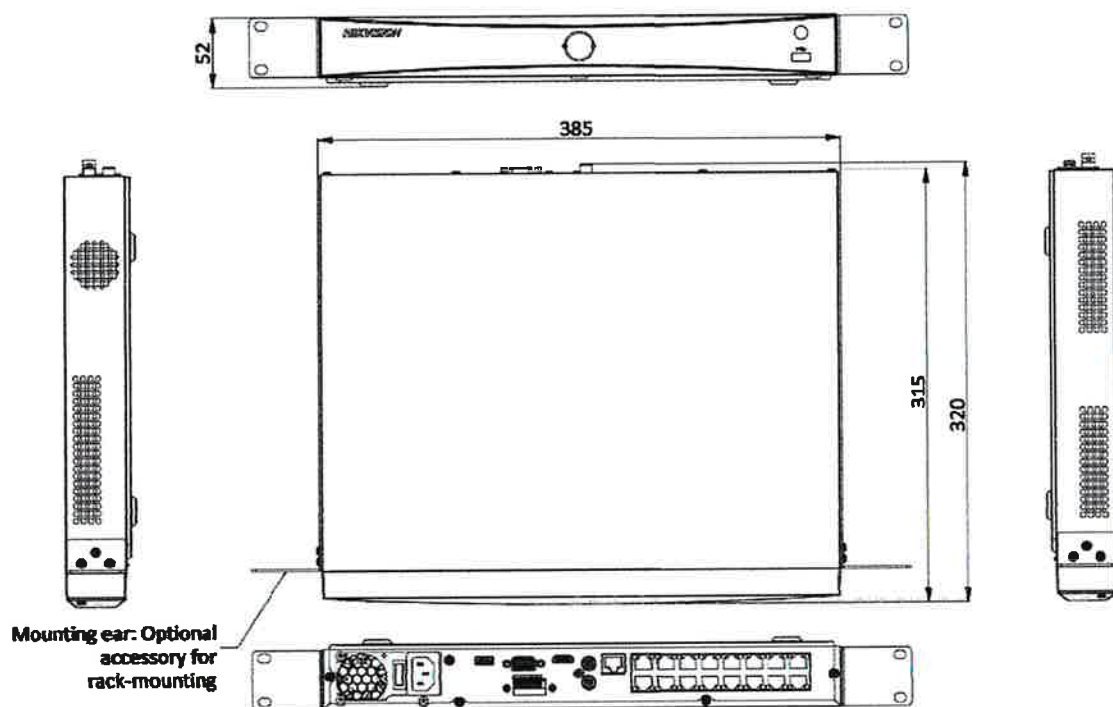| CE | EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017 |
| **Obtained Certification** | CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS |

Note:

Facial recognition, motion detection 2.0 or perimeter protection cannot be enabled at the same time.
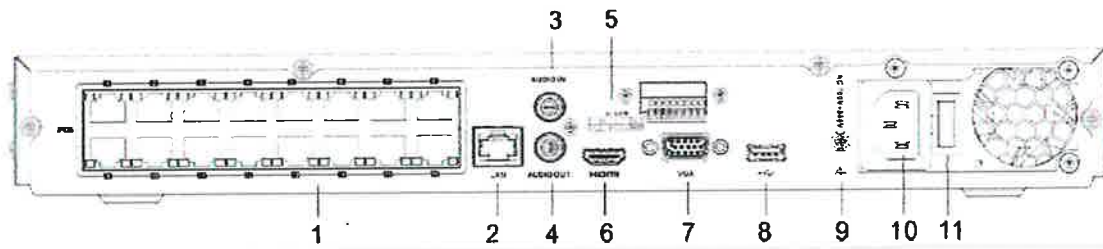
Dimension

385

315

320

52

Mounting ear: Optional accessory for rack-mounting

scale/1:1;Unit/mm

Physical Interface

No.	Description	No.	Description
1	Network interfaces with PoE function	7	VGA interface
2	LAN network interface	8	USB interface
3	AUDIO IN	9	GND
4	AUDIO OUT	10	Power supply
5	ALARM IN and OUT	11	Power switch
6	HDMI interface		

Available Model

DS-7616NXI-K2/16P

HIKVISION

DS-2CD2T46G2-2I/4I
4 MP AcuSense Powered-by-DarkFighter Fixed Bullet Network Camera

AcuSense

Powered by

Dark Fighter

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle targets classification based on deep learning
- Water and dust resistant (IP67)

• Specification

Camera

Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB

Lens

Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 103°, vertical FOV 55°, diagonal FOV 123°
	4 mm, horizontal FOV 83°, vertical FOV 45°, diagonal FOV 98°
	6 mm, horizontal FOV 53°, vertical FOV 28°, diagonal FOV 62°
Aperture	F1.4
Lens Mount	M12
Iris Type	Fixed

DORI

DORI	2.8 mm: D: 60.0 m, O: 23.8 m, R: 12.0 m, I: 6.0 m
	4 mm: D: 80.0 m, O: 31.7 m, R: 16.0 m, I: 8.0 m
	6 mm: D: 120.0 m, O: 47.6 m, R: 24.0 m, I: 12.0 m

Illuminator

IR Range	2I: Up to 60 m
	4I: Up to 80 m
IR IR Wavelength	850 nm
Smart Supplement Light	Yes
Supplement Light Type	IR

Video

Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	*Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.265+/H.264+
	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
	*Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main stream supports

H.265+	Main stream supports
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream

Network

Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10, IE 11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+ Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+

Image

SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser

Interface

On-Board Storage	Built-in memory card slot, support microSD card, up to 512 GB
Reset Key	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port

Event

Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection

Deep Learning Function

Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection

General

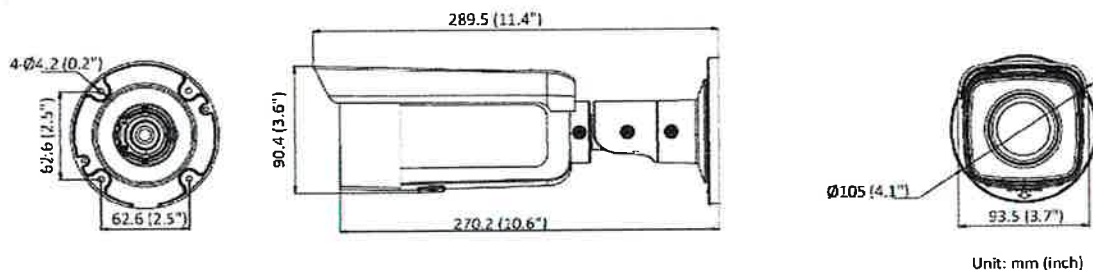|	
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)

Power Supply	12 VDC ± 25%, reverse polarity protection PoE: 802.3af, Class 3
Power Consumption and Current	2I: 12 VDC, 0.63 A, max. 7.5 W PoE (802.3af, 36 V to 57 V), 0.25 A to 0.16 A, max. 9 W 4I: 12 VDC, 0.88 A, max. 10.5 W PoE (802.3af, 36 V to 57 V), 0.34 A to 0.21 A, max. 12 W
Power Interface	Ø5.5 mm coaxial power plug
Material	Metal except for sunshield
Dimension	Ø105 mm × 289.5 mm (Ø4.1" × 11.4")
Package Dimension	386 mm × 156 mm × 155 mm (15.2" × 6.1" × 6.1")
Weight	Approx. 1075 g (2.4 lb.)
With Package Weight	Approx. 1584 g (3.5 lb.)
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email
Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Software Reset	Yes

Approval

EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 + A1: 2014); RCM (AS/NZS CISPR 32: 2015); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); CE-LVD (EN 60950-1: 2005 + Am 1: 2009 + Am 2: 2013); LOA (IEC/EN 60950-1)
Environment	CE-ROHS (2011/65/EU); WEEE (2012/19/EU); REACH (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013)

• Available Model
DS-2CD2T46G2-2I (2.8/4/6 mm)
DS-2CD2T46G2-2I (2.8 mm) (Black)
DS-2CD2T46G2-4I (2.8/4/6 mm)
DS-2CD2T46G2-4I (4 mm) (Black)

▪Dimension

289.5 (11.4")

90.4 (3.6")

4-Ø4.2 (0.2")

62.6 (2.5")

62.6 (2.5")

270.2 (10.6")

Ø105 (4.1")

93.5 (3.7")

Unit: mm (inch)

▪ Accessory

▪Optional

DS-1260ZJ(Black) Junction Box	DS-1280ZJ-S Junction Box	DS-1275ZJ-SUS Vertical Pole Mount	DS-1275ZJ-SUS(Black) Vertical Pole Mount	DS-1276ZJ-SUS Corner Mount

DS-1276ZJ-SUS (Black) Corner Mount	DS-1280ZJ-S(Black) Junction Box	DS-1260ZJ Junction box

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DS-2CD2146G2-I(SU)
4 MP AcuSense Powered-by-DarkFighter Fixed Dome Network Camera

Empowered by deep learning algorithms, Hikvision AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Clear imaging against strong backlight due to 120 dB true WDR technology
- Efficient H.265+ compression technology
- Focus on human and vehicle targets classification based on deep learning
- Built-in microphone for real-time auto security(-SU)
- Water and dust resistant (IP67) and vandal-resistant (IK10)

• Specification

Camera

Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB

Lens

Focal Length & FOV	2.8 mm, horizontal FOV 103°, vertical FOV 55°, diagonal FOV 123°
	4 mm, horizontal FOV 83°, vertical FOV 45°, diagonal FOV 98°
	6 mm, horizontal FOV 53°, vertical FOV 28°, diagonal FOV 62°
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Aperture	F1.4
Lens Mount	M12
Iris Type	Fixed

DORI

DORI	2.8 mm: D: 60.0 m, O: 23.8 m, R: 12.0 m, I: 6.0 m
	4 mm: D: 80.0 m, O: 31.7 m, R: 16.0 m, I: 8.0 m
	6 mm: D: 120.0 m, O: 47.6 m, R: 24.0 m, I: 12.0 m

Illuminator

IR Range	Up to 30 m
IR Wavelength	850 nm
Smart Supplement Light	Yes
Supplement Light Type	IR

Video

Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
	*Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.265+/H.264+
	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
	*Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main stream supports
H.265+	Main stream supports

Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream

Audio

Environment Noise Filtering	-S: Yes
Audio Sampling Rate	-S: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	-S: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio Bit Rate	-S: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC)

Network

Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10, IE 11 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+ Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+

Image

SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser

Interface

Alarm	-S: 1 input, 1 output (max. 12 VDC, 30 mA)
Audio	-S: 1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium; 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
Built-in Microphone	-U: Yes
On-Board Storage	Built-in memory card slot, support microSD/SDHC/SDXC card, up to 256 GB
Reset Key	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port

Event

Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection

Deep Learning Function

Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection

General

Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Power Supply	12 VDC ± 25%, reverse polarity protection PoE: 802.3af, Class 3
Power Consumption and Current	12 VDC: 0.4 A, max. 5 W PoE (802.3af, 36 V-57 V), 0.20 A to 0.15 A, max. 6.5 W
Power Interface	Ø5.5 mm coaxial power plug
Material	Metal upper cover and base
Dimension	Ø121.4 mm × 92.2 mm (Ø4.8" × 3.6")
Package Dimension	150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")
Weight	Approx. 580 g (1.3 lb.)
With Package Weight	Approx. 820 g (1.8 lb.)
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, audible warning
Language	33 languages English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Software Reset	Yes
Firmware Version	V5.5.112

Approval

|	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); LOA (IEC/EN 60950-1)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013), IK10 (IEC 62262:2002)

▪ Available Model

DS-2CD2146G2-IS (2.8/4/6 mm)

DS-2CD2146G2-ISU (2.8/4/6 mm)

DS-2CD2146G2-I (2.8/4/6 mm)

▪ Dimension

Unit: mm (inch)
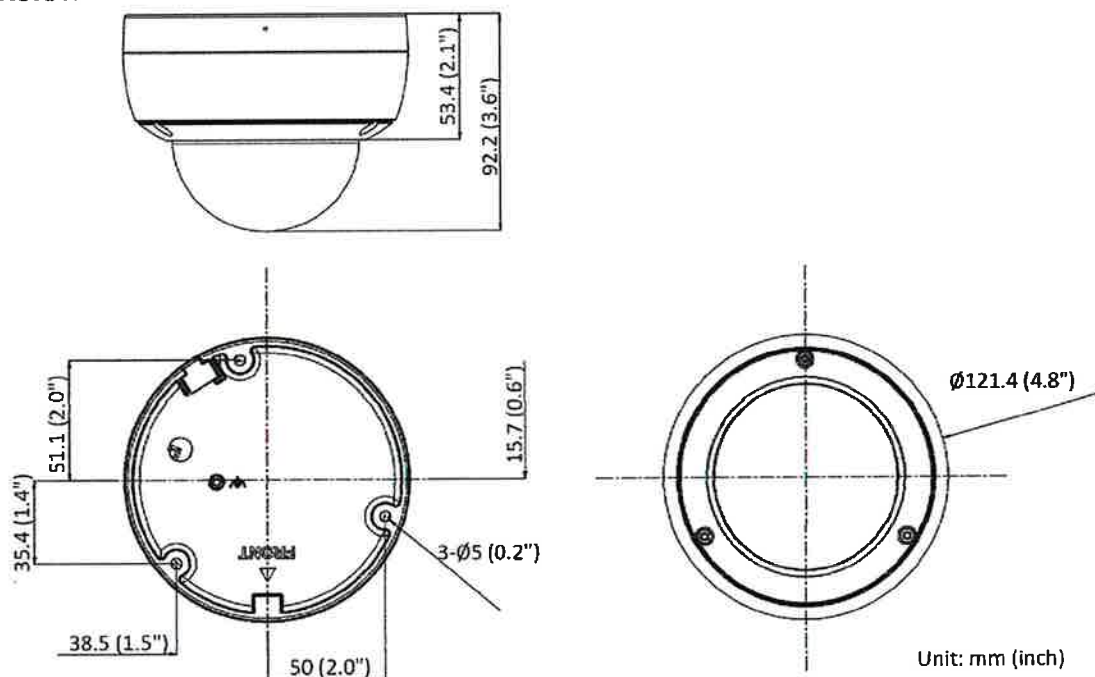
▪ Accessory

▪ Optional

DS-1276ZJ-SUS	**DS-1272ZJ-120**	**DS-1275ZJ-SUS**	**DS-1271ZJ-120**	**DS-1280ZJ-DM46**
Corner Mount	**Wall Mount**	**Vertical Pole Mount**	**Pendant Mount**	**Junction Box**

DS-1272ZJ-120B	**DS-1253ZJ-M**
Wall Mount	**Water-proof**

Distributed by

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HIKVISION

DS-2CD6365G0-I(V)(S)
6 MP IR Network Fisheye Camera

With –V Model   Without –V Model

DeepinView series

DS-2CD6365G0-I(V)(S) is a fisheye network camera capable of providing a 360-degree panoramic image of its surveillance scene.

The progressive scan CMOS sensor provides high-resolution images of up to 3072 × 2048.

Up to 18 live view display modes, designed for 3 mount types, meet various user preference.

Three independently controlled IR lights offer a range of 15 m and provide good vision in low or even zero-light environment.

- 1/1.8" Progressive Scan CMOS
- Max. 3072 × 2048 @30fps
- Up to 18 live view display modes
- Digital WDR
- Up to 15m IR range
- Built-in microphone and speaker
- Smart features
  6 behavior analyses, and 3 exception detections
  Heat map with deep learning algorithm
  Intersection analysis by deep learning

▪ DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Distance(1.27 mm)	21.3 m	8.5 m	4.3 m	2.1 m

www.hikvision.com

Specifications

Camera

Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.047 Lux @ (F2.6, AGC ON), B/W: 0.0047 Lux @ (F2.6, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	Digital WDR

Lens

Focal Length	1.27 mm
Aperture	F2.6
FOV	Horizontal FOV 180° (wall mount), 360°(ceiling mount), 360°(table mount)
Lens Mount	M12

IR

IR Range	Up to 15 m IR range, 3 LEDs. Each LED is independently controlled.
Wavelength	850 nm

Compression Standard

Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/ Main Profile /High Profile
H.264+	Main stream supports
H.265 Type	Main Profile
H.265+	Main stream supports
Video Bit Rate	32 Kbps to 16 Mbps
SVC	H.265 and H.264 support

Smart Feature-set

Behavior Analysis	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
Exception Detection	Audio exception detection
Intersection Analysis	Detects and analyze flow in an intersection-like scene, and generate reports Support one intersection of up to 10 ways
Heat Map	A graphic description of visits (calculated by people number or by dwell time) in a configured area. Two heap map report types are available, space heat map and time heat map line chart
People Counting	Counts people entering, exiting and passing by separately Supports real-time uploading and uploading by statistic cycle Sends email reports on daily, weekly, monthly or annually basis Supports target filtering by height
Region of Interest	4 fixed regions for main stream

Image

Max. Resolution	3072 × 2048
Main Stream Max. Frame Rate	50Hz: 25fps (3072 × 2048, 2048 × 2048, 1280 × 1280) 60Hz: 30fps (3072 × 2048, 2048 × 2048, 1280 × 1280)
Sub Stream Max. Frame Rate	50Hz: 25fps (720 × 720, 720 × 480) 60Hz: 30fps (720 × 720, 720 × 480)

Image Enhancement	BLC, HLC, defog, 3D DNR
Image Setting	Saturation, brightness, contrast, sharpness, AGC and white balance are adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In (-S)
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format

Live View Display

Mount Type	Support table, wall, and ceiling mounting
Decoding Mode	Support hardware decoding and software decoding
Display Mode	18 display modes in total Software decoding: Ceiling mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ, half sphere, cylinder Wall mount: fisheye view, panorama view, panorama + 3PTZ, panorama + 8PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ Table mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ, cylinder Hardware decoding: Ceiling mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion Wall mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion Table mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion

Audio (-S)

Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)

Network

Network Storage	Support microSD/SDHC/SDXC card (256 G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering alarm, network disconnected, IP address conflicted, illegal login, HDD full, HDD error
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
Security Measure	Password protection, HTTPS encryption, IEEE 802.1x port-based network access control, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF
General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
Firmware Version	5.5.73
API	ONVIF (PROFILE S, PROFILE G), ISAPI
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels, administrator, operator and user
Client	iVMS-4200, iVMS-4500, Hik-Connect, iVMS-5200
Web Browser	IE8+, Chrome31.0-44, Firefox 30.0-51, Safari8.0+

Interface

Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
Audio	2 built-in microphones, 1 built-in speaker, mono sound -S: 1 Audio input (line in, 3.5 mm), 1 audio output (line out, 3.5 mm)
Alarm (-S)	1-ch alarm input, max. 12 V; 1-ch alarm output, max 24 VDC, 1 A
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Reset Button	Yes

General	
Operating Conditions	-40 °C to +60 °C (-40 °F to +140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC $\pm$ 20%, PoE (802.3at, class 4), -S model: two-core terminal block Without –S model: Φ 5.5 × 2.1 mm coaxial power plug
Power Consumption	12 VDC, 1 A, max. 12.5 W PoE (802.3at, 42.5 to 57 V), 0.4 A to 0.3 A, max. 15 W
Protection Level (-V)	IP67, IK10
Heater	Yes
Material	Metal
Dimensions	Without –V model: 167.4 × 152.8 × 50 mm (6. 6" × 6" × 2") With –V model: 167.4 × 152.8 × 55 mm (6. 6" × 6" × 2.2")
Weight	Approx. 1400 g (3.09 lbs)

Available Model

DS-2CD6365G0-I (1.27 mm); DS-2CD6365G0-IS (1.27 mm), DS-2CD6365G0-IV (1.27 mm), DS-2CD6365G0-IVS (1.27 mm)

▪ Typical Application

Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped for use in areas with moderate anti-corrosion demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.
No specific protection	Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

Dimensions

Φ167.4(6.6") 50(2") Φ7.6(0.3")
152.8(6") Φ4.3(0.2")
Φ149.5(5.9")

Without -V Model

Φ167.4(6.6") 55(2.2") Φ7.6(0.3")
152.8(6") Φ4.3(0.2")
Φ149.5(5.9")

With -V Model

Unit: mm (inch)
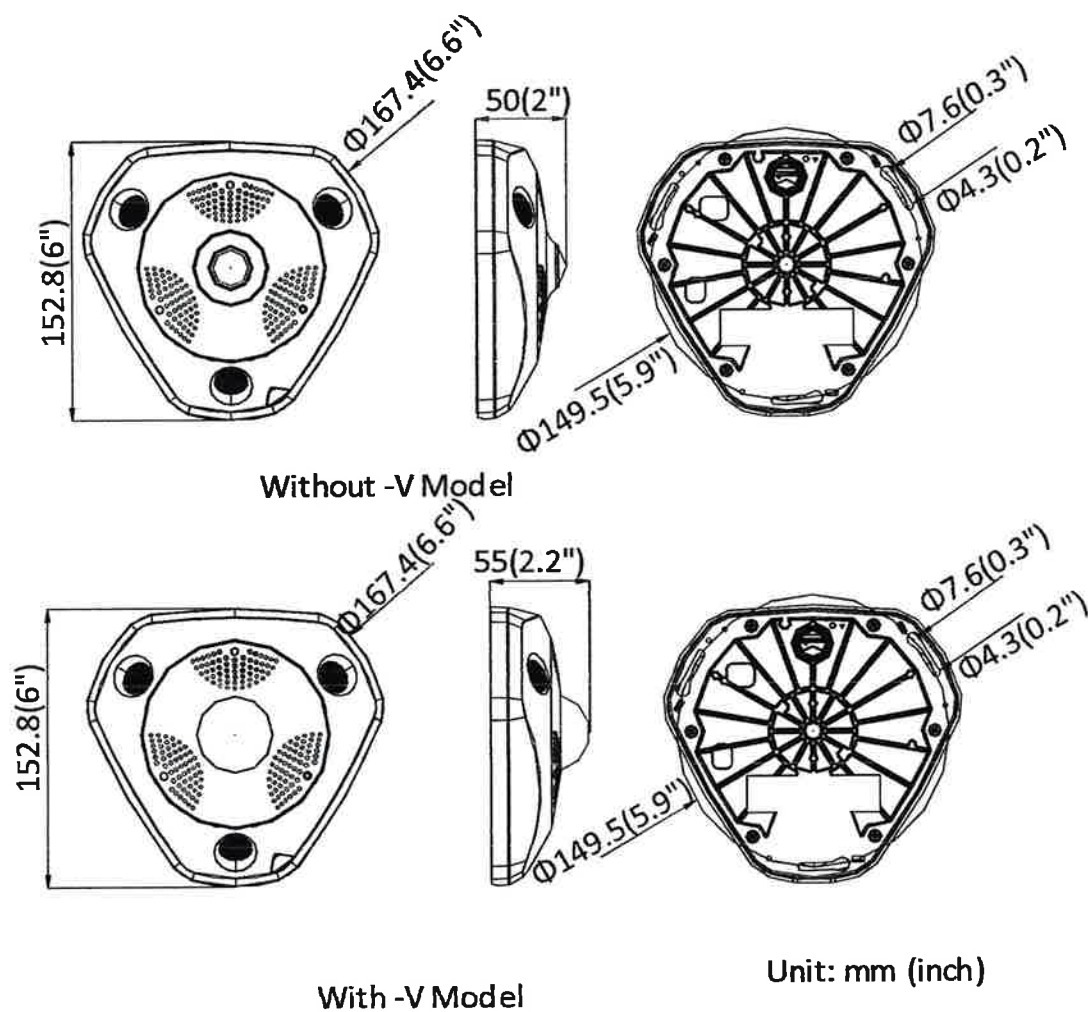
Accessories

DS-1280ZJ-DM25

Junction Box

DS-1281ZJ-DM25

Inclined Ceiling Mount

DS-1273ZJ-DM25

Wall Mount

DS-1271ZJ-DM25

Pendant Mount

DS-1283ZJ

Wall Mount (3-axis Adjustment)

Distributed by

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DS-3E1318P-EI (B)
16 Port Fast Ethernet Smart PoE Switch

Smart managed switches are developed by Hikvision, featuring easy management and maintenance. You can easily deploy, monitor and expand your surveillance system anytime and anywhere with our software platforms. You can view the network topology, monitor the health of the network and receive device alarms in real time, which greatly reduces the cost of network operation and maintenance

- 16 × 10/100 Mbps PoE ports, 2 × Gigabit combos.

- Total PoE Power Budget 230 W

- Support 802.1Q VLAN

- Support PoE watchdog to detect and restart the cameras that do not respond

- Support STP/RSTP Loop prevention

- Support cable detection to locate failure

- Up to 300 m Long Range PoE Transmission

- 6 kV Surge Protection

• Specification

General

Shell	Metal material
Net Weight	2.59 kg (5.71 lb)
Gross Weight	3.68 kg (8.11 lb)
Dimensions (W × H × D)	440.00 mm × 44.00 mm × 220.80 mm (17.32" × 1.73" × 8.69")
Operating Temperature	0 °C to 45 °C (0 °F to 113 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	5% to 95% (no condensation)
Relative Humidity	5% to 95% (no condensation)
Power Supply	100-240 V AC, 50/60 Hz, Max. 4 A
Installation Mode	Rack (equipped with mounting ears)
Max. Power Consumption	250 W
Power Consumption in Idle	20 W
Surge Protection	6 kV

Network Parameters

Ports	16 × 10/100 Mbps PoE port,2 × Gigabit combo
MAC Address Table	16 K
Switching Capacity	Whole-Device Performance: 9.2 Gbps Port Performance: 7.2 Gbps
Packet Forwarding Rate	Whole-Device Performance: 6.84 Mpps Port Performance: 5.36 Mpps
Internal Cache	4 Mbits

PoE Power Supply

PoE Standard	IEEE 802.3af,IEEE 802.3at
PoE Power Pin	8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)
PoE Port	PoE: Ports 1 to 16
Max. Port Power	30 W
PoE Power Budget	230 W

Software Function

Long Range	Ports 1 to 16: up to 300 m. Long range performance may vary depend on camera model or cable condition.
VIP Port	Ports 1 to 8: data on VIP ports is preferentially forwarded when bandwidth resources are insufficient.
Port Isolation	Ports 1 to 16: port isolation mode to improve network security Ports in an isolation group cannot communicate with each other, but they can communicate with ports outside the isolation group.
PoE Watchdog	Ports 1 to 16: auto detect and restart the cameras that do not respond.
Link Aggregation	Link aggregation is used to aggregate multiple physical ports to form a logical port for load balancing, bandwidth expansion, and port protection. Support static link aggregation. Support 1 aggregation groups.
Loop Prevention	Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default. Support 802.1D STP. Support 802.1w RSTP

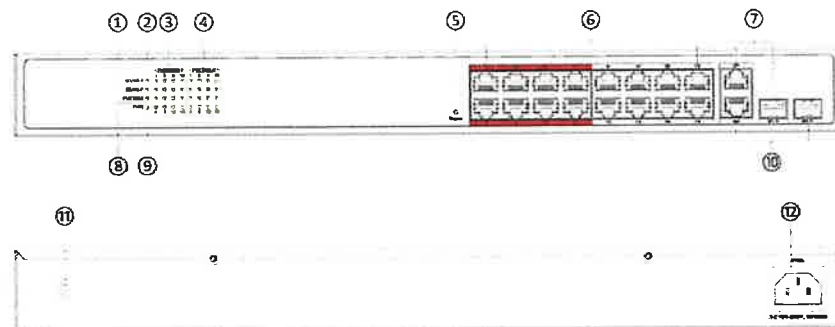|	
VLAN	VLAN is used for network scale planning and network health improvement. Support 802.1Q. Configurable VLAN ID from 1-4094. Support Trunk, Access port mode. Support Max. 4094 VLAN.
HPP	Support one-click activation and remote management via Hik-Partner Pro. Functions supported: 1. Display the port rate. 2. Display the port bandwidth utilization rate. 3. Display the PoE power usage. 4. Display topology information. 5. Display the alarm status. 6. Restart ports and devices. 7. Enable port long-rage mode. 8. Remotely upgrade the device.
System Maintenance	Support device management via web. Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses. Support Super IP, which is a fixed IP address (10.180.190.200) for direct access. Support management via Hik-Central Pro. Support remote management via Hik-Partner Pro. Support cable detection. Abnormal open circuits and short circuits as well as network cable length can be detected. Supports 802.1ab LLDP for peer device discovery. Support port mirroring for fault locating.
Approval	
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020),IC (ICES-003: Issue 7:2020),RCM (AS/NZS CISPR 32: 2015)
Safety	CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition)), CE-LVD (EN 62368-1: 2014+A11: 2017)
Chemistry	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)

▪ Available Model

DS-3E1318P-EI(B)

▪ Typical Application
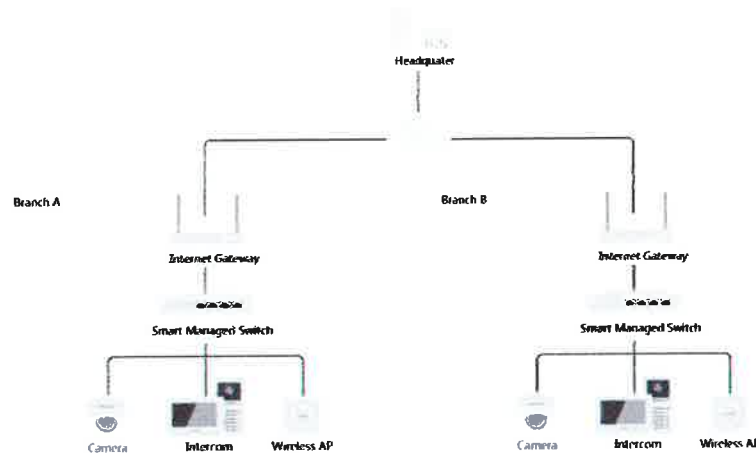

▪ Physical Interface

Front Panel

Rear Panel

No.	Indicator/Port	Description
①	G2/G2-F Indicator	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
②	G1/G1-F Indicator	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
③	Port Status Indicator	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
④	PoE Status Indicator	• Solid on: The switch provides power supply to a powered device (PD) normally. • Unlit: The switch is disconnected to a PD, or provides power supply to a PD abnormally.
⑤	Reset Button	Press and hold the reset button for about five seconds to restore all the configurations of the switch to default settings.
⑥	10/100 Mbps PoE RJ45 Port	Used for connection to a PD via a network cable.
⑦	Gigabit Combo (G1/G1-F Port)	• When connected to a network cable, the combo is a RJ45 port. • When plugged into with an optical module and connected to an optical fiber, the combo functions as a fiber optical port. • When connected to both the network cable and optical fiber at the same time, the combo works as a fiber optical port.

⑧	PoE-MAX Indicator	• Solid on/Flashing: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. • Unlit: The switch does not supply power to a powered device (PD), or supplies power to a PD normally and its output power does not reach the upper limit. Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.
⑨	PWR Indicator	• Solid on: The switch is powered on normally. • Unlit: No power supply connected or power supply is abnormal.
⑩	Gigabit Combo (G2/G2-F Port)	• When connected to a network cable, the combo is a RJ45 port. • When plugged into with an optical module and connected to an optical fiber, the combo functions as a fiber optical port. • When connected to both the network cable and optical fiber at the same time, the combo works as a fiber optical port.
⑪	Grounding Terminal	Used for connection to a grounding cable to protect the switch from lightning.
⑫	Power Supply	Use the attached AC power cord to connect the switch to a socket.

▪Dimension

440 [17.32]

44 [1.73]

220.8 [8.69]

3xM3

27 [0.11]

Unit: mm [inch]

SCALE   1:1
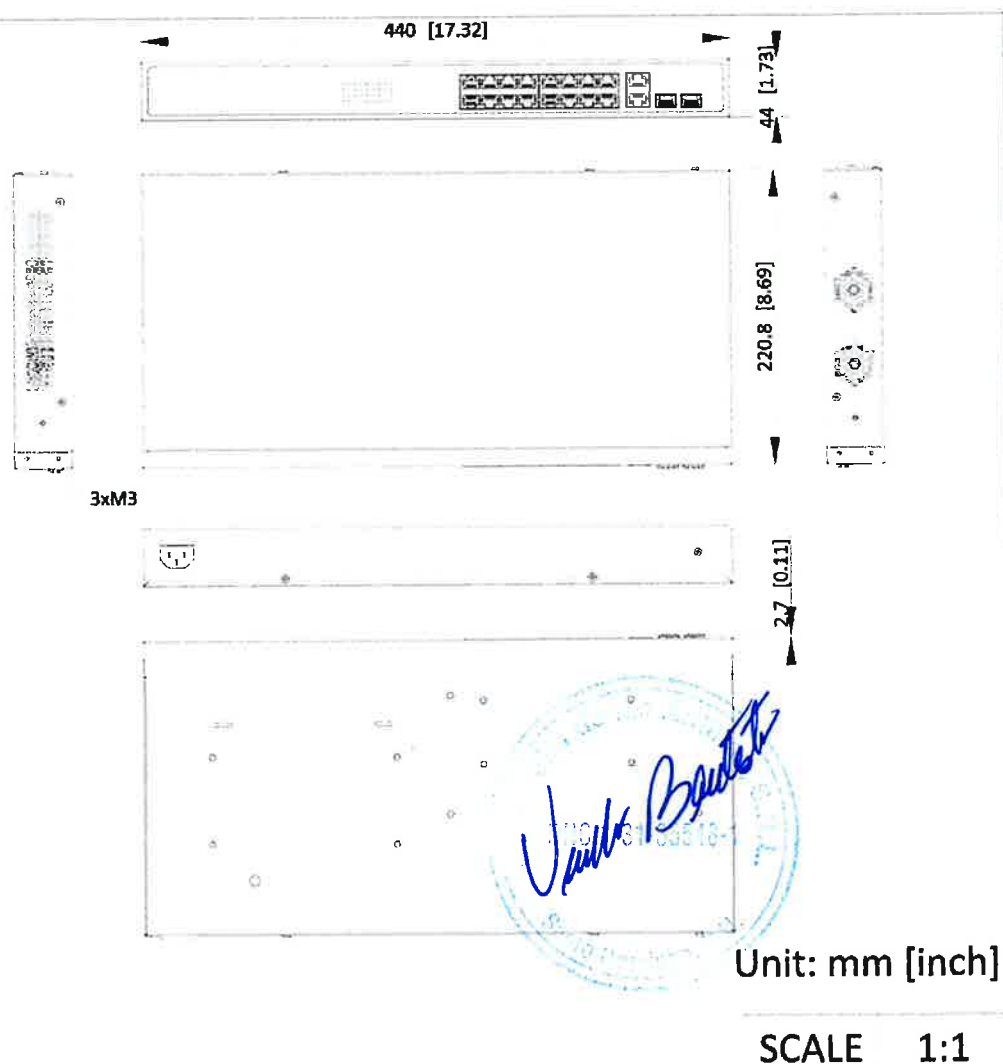
- **Accessory**

- **Optional**

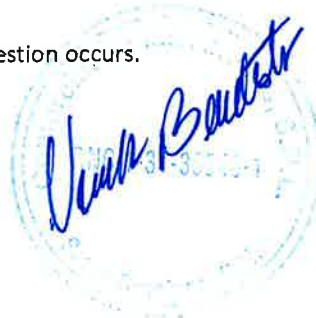| HK-SFP-1.25G-20-1550 SFP Module	HK-SFP-1.25G-20-1310 SFP Module	HK-SFP-1.25G-1310-DF-MM SFP Module	HK-SFP-1.25G-20-1310-DF SFP Module

DS-3E0326P-E/M(C)
100 Mbps PoE Switch

DS-3E0326P-E/M(C) switches are layer 2 100 Mbps PoE switches, providing PoE power supply technology and Gigabit network design on the basis of network access to ensure stable data upload. The switches support long range, port isolation, and PoE watchdog functions.

- Intelligent PoE Management

  When the power supply exceeds the limit, PoE ports intelligently manage the power supply, which extends the switch lifetime.
- Up to 300 m Long Range PoE Transmission

  The distance between IPCs and switch can reach maximum 300 meters.
- 4/8-Core Adaptive Power Supply with Less Power Loss

  8-core power supply reduces the power loss on cables.
- 6 kV Surge Protection to Improve Reliability in Harsh Environment

  The built-in surge protection device protects the switch from the sudden lightning surge in harsh environment.
- Design for Video Transmission

 VIP port ensures important data transmission when network congestion occurs.

Specification

Model		DS-3E0326P-E/M(C)
General	Shell	Metal material
	Net Weight	1.90 kg (4.20 lb)
	Gross Weight	2.65 kg (5.84 lb)
	Dimensions (W × H × D)	335.0 mm × 44.5 mm × 226.0 mm (13.19" × 1.75" × 8.90")
	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
	Storage Temperature	−40 °C to 85 °C (−40 °F to 185 °F)
	Operating Humidity	5% to 95% (no condensation)
	Relative Humidity	5% to 95% (no condensation)
	Power Supply	100~240 V AC, 50/60 Hz, Max. 4 A
	Max. Power Consumption	250 W
	Power Consumption in Idle	20 W
	Installation Mode	Desk-Mounted,Wall-Mounted
	Surge Protection	6 kV
Network Parameters	Ports	24 × 10/100 Mbps PoE port,1× Gigabit RJ45 port,1 × Gigabit combo
	MAC Address Table	8 K
	Switching Capacity	8.8 Gbps
	Packet Forwarding Rate	6.55 Mpps
	Internal Cache	4 Mbits
PoE Power Supply	PoE Standard	IEEE 802.3af;IEEE 802.3at
	PoE Power Pin	8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)
	PoE Port	PoE: Ports 1 to 24
	Max. Port Power	30 W
	PoE Power Budget	230 W
Dialing Function	Long Range	Ports 17 to 24: up to 300 m. Long range performance may vary depend on camera model or cable condition.
	Port Isolation	Ports 1 to 24: port isolation mode to improve network security. Ports in an isolation group cannot communicate with each other, but they can communicate with ports outside the isolation group.
	PoE Watchdog	Ports 1 to 24: auto detect and restart the cameras that do not respond.
Approval	EMC	FCC (47 CFR Part 15, Subpart B),CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020),IC (ICES-003: Issue 7:2020),RCM (AS/NZS CISPR 32: 2015)
	Safety	UL (UL 60950-1),CB (AMD1:2009, AMD2:2013, IEC 62368-1:2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)
	Chemistry	CE-RoHS (201165EU); WEEE (201219EU); Reach (Regulation (EC) No.19072006)

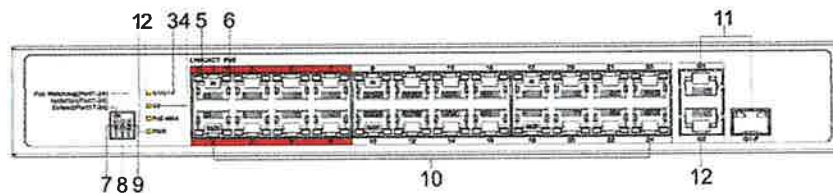# Available Model

DS-3E0326P-E/M(C)

▪ Typical Application
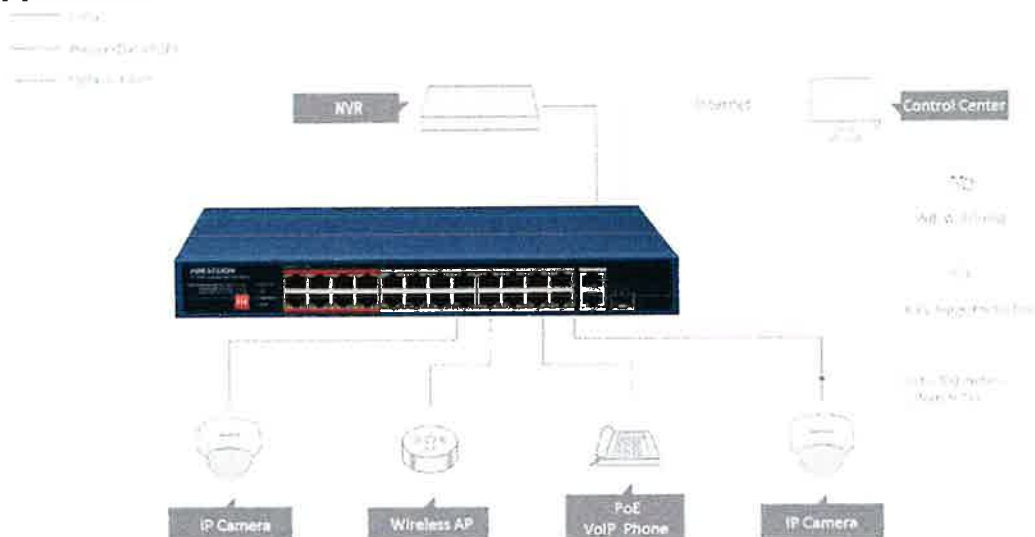
24-Port 10/100M PoE
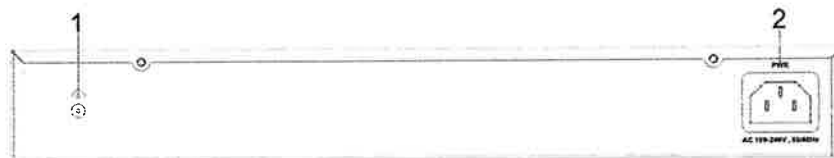10/100M Unmanaged PoE Pro-Series

▪ Physical Interface
Front Panel

No.	Indicator/Port	Description
1	PWR Indicator	• Solid on: The switch is powered on normally. • Unlit: No power supply is connected or power supply is abnormal.
2	PoE-MAX Indicator	• Solid on: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. • Unlit: The switch does not supply power to a powered device (PD), or the switch supplies power to a PD normally and the output power of the switch does not reach the upper limit. (The PoE-MAX indicator will be unlit in five seconds after the output power of the switch reaches the upper limit.)
3	Gigabit RJ45 Port Indicator (when gigabit RJ45 port G1 is connected)	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
	Gigabit SFP Fiber Optical Port Indicator (when gigabit SFP fiber optical port G1-F is connected)	• Solid on: The gigabit SFP fiber optical port is connected. • Flashing: The gigabit SFP fiber optical port is transmitting data. • Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.
4	Gigabit RJ45 Port Indicator	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
5	LINK/ACT Indicator (for switches without indicator panels)	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.
	10/100 Mbps RJ45 Port Indicator (for switches with indicator panels)	• Solid on: The port is connected. • Flashing: The port is transmitting data. • Unlit: The port is disconnected or connection is abnormal.

| No.	Indicator/Port	Description
	without indicator panels)	• Unlit: The switch is disconnected from a PD or power supply is abnormal.
	PoE Status Indicator of 10/100 Mbps RJ45 Port (for switches with indicator panels)	• Solid on: The switch supplies power to a PD normally. • Unlit: The switch is disconnected from a PD or power supply is abnormal.
7	EXTEND DIP Switch	Enable or disable long-range transmission (EXTEND mode). • When the DIP switch is set to "ON", the corresponding ports support up to 300 m network transmission with a port rate of 10 Mbps. • When the DIP switch is set to "OFF", the corresponding ports support up to 100 m network transmission with a port rate of 100 Mbps.
8	Isolation DIP Switch	Enable or disable port isolation. • When the DIP switch is set to "ON", port isolation is enabled. Ports in the same isolation group cannot communicate with each other. Data transmission via each port is isolated to enhance network security. • When the DIP switch is switched to "OFF", port isolation is disabled. Ports can communicate with each other.
9	PoE Watchdog DIP Switch	Enable or disable PoE watchdog. • When the DIP switch is set to "ON", PoE watchdog is enabled to automatically detect device connection statuses of corresponding ports and restart ports in case of communication failures. • When the DIP switch is set to "OFF", PoE watchdog is disabled. Corresponding ports are no longer automatically detected and restarted in case of communication failures.
10	10/100 Mbps PoE RJ45 Port	Used for connection to a PD via a network cable.
11	Gigabit Combo Port (G1/G1-F)	• When connected to a network cable, the combo port is a RJ45 port. • When plugged into with an optical module and connected to an optical fiber, the combo port functions as a fiber optical port.
12	Gigabit RJ45 Port (G2)	Used for connection to another device via a network cable.

Rear Panel

No.	Indicator/Port	Description
1	Grounding Terminal	Used for connecting to the grounding cable to protect the switch from lightning.
2	Power Supply	Use the attached power cord to connect the switch to a socket.
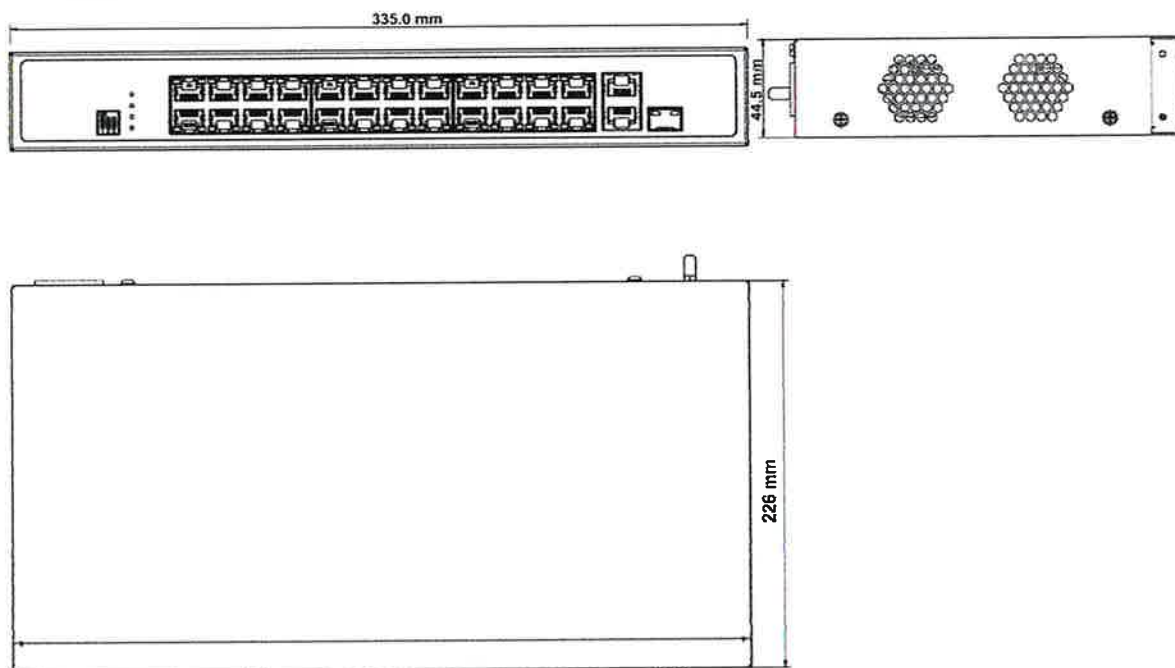
▪ Dimension

335.0 mm

44.5 mm

226 mm

HIKVISION

DS-3E1552P-SI
Smart Managed 48-Port Gigabit PoE Switch

Smart managed switches are developed by Hikvision, featuring easy management and maintenance. You can easily deploy, monitor and expand your surveillance system anytime and anywhere with our software platforms. You can view the network topology, monitor the health of the network and receive device alarms in real time, which greatly reduces the cost of network operation and maintenance.

- IEEE 802.3af/at PoE standard

- 48 x Gigabit PoE Ports, 2 × gigabit RJ45, 2 x fiber optical ports

- Total PoE Power Budget 470W

- PoE Watchdog, STP/RSTP, VLAN, SNMP, QoS

- 104 Gbps Switching Capacity

- 16 K MAC Address Entries

▪ Specification

General

Shell	Metal material
Net Weight	4.35 kg (9.59 lb)
Gross Weight	4.5 kg (9.92 lb)
Dimensions (W × H × D)	440.00 mm × 44.00 mm × 323.80 mm (17.32" × 1.73" × 12.71")
Operating Temperature	0 °C to 45 °C (0 °F to 113 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Operating Humidity	5% to 95% (no condensation)
Relative Humidity	5% to 95% (no condensation)
Power Supply	100 to 240 V AC, 50/60 Hz, Max. 5 A
Installation Mode	Rack (equipped with mounting ears)
Max. Power Consumption	500 W
Power Consumption in Idle	30 W
Surge Protection	6 kV

Network Parameters

Ports	48 × Gigabit PoE port,2 × Gigabit RJ45 port,2 × Gigabit fiber optical port
MAC Address Table	16 K
Switching Capacity	104 Gbps
Packet Forwarding Rate	77.38 Mpps
Internal Cache	12 Mbits

PoE Power Supply

PoE Standard	IEEE 802.3af,IEEE 802.3at
PoE Power Pin	8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)
PoE Port	PoE: Ports 1 to 48
Max. Port Power	30 W
PoE Power Budget	470 W

Software Function

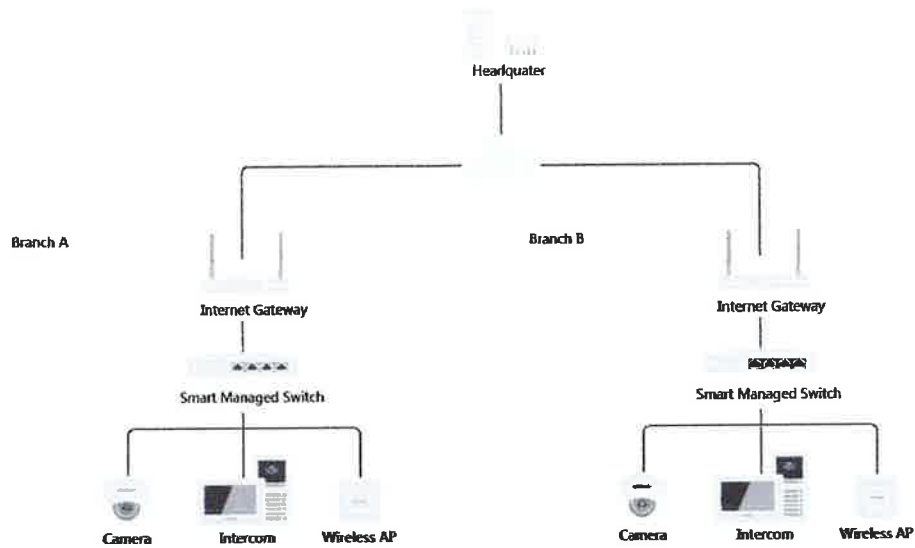|	
Long Range	Ports 1 to 48: up to 300 m. Long range performance may vary depend on camera model or cable condition.
Port Isolation	Ports 1 to 48: port isolation mode to improve network security. Ports in an isolation group cannot communicate with each other, but they can communicate with ports outside the isolation group.
PoE Watchdog	Ports 1 to 48: auto detect and restart the cameras that do not respond.
Link Aggregation	Link aggregation is used to aggregate multiple physical ports to form a logical port for load balancing, bandwidth expansion, and port protection. Support static link aggregation. Support 8 aggregation groups.
QoS	QoS is used to allocate bandwidth to different services so as to provide end-to-end service quality assurance. Support port-based priority configuration. Support SP, WRR priority schedule mode.

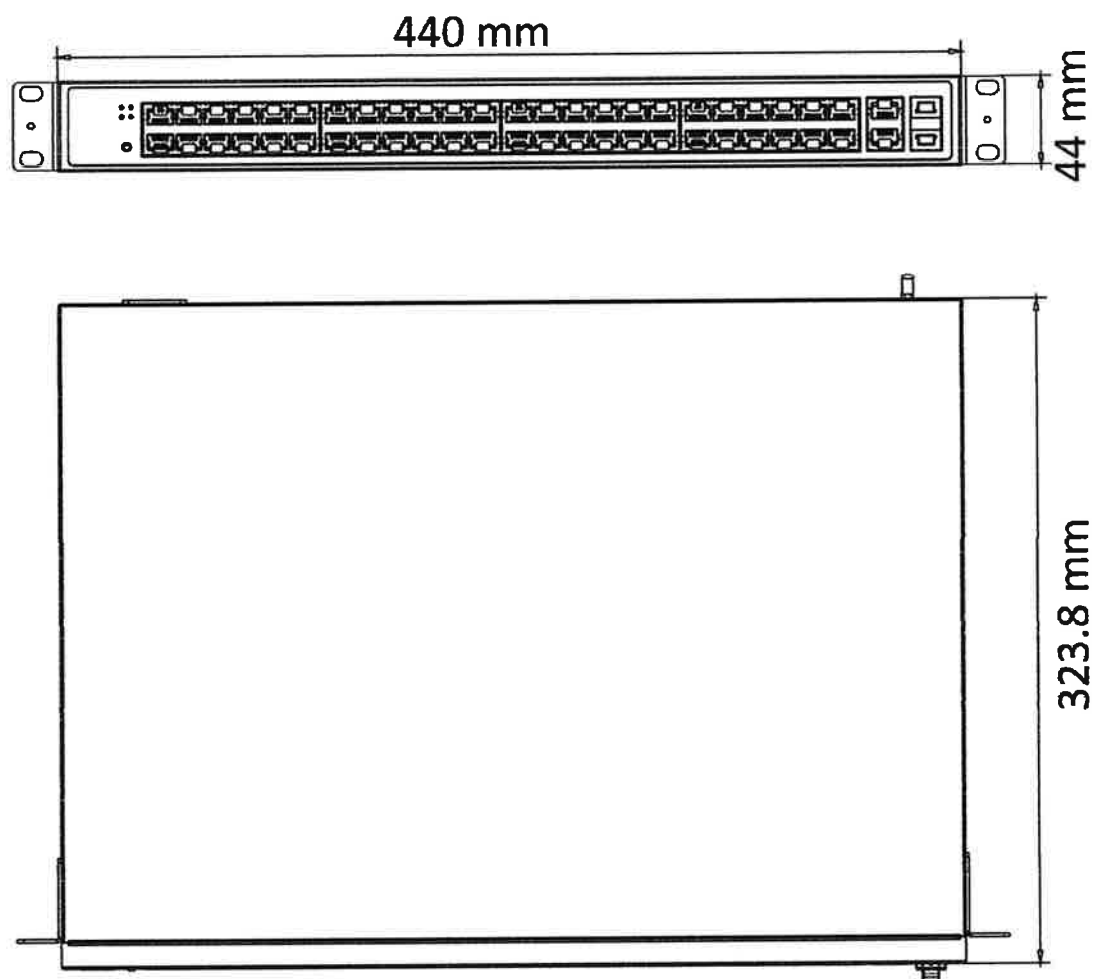|	
Loop Prevention	Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default. Support 802.1D STP. Suppport 802.1w RSTP.
VLAN	VLAN is used for network scale planning and network health improvement. Support 802.1Q. Configurable VLAN ID from 1-4094. Support Trunk, Access port mode. Support Max. 4094 VLAN.
HPP	Support one-click activation and remote management via Hik-Partner Pro. Functions supported: 1. Display the port rate. 2. Display the port bandwidth utilization rate. 3. Display topology information. 4. Display the alarm status. 5. Restart ports and devices. 6. Remotely upgrade the device.
System Maintenance	Support remote upgrade, default parameter restoration, logs viewing, basic network parameter configuration, import and export configuration, and time synchronization.
Port Rate-Limiting	Port rate-limiting is used for port bandwidth adjustment to prevent network congestion.
Storm Control	Storm control is used to prevent switch ports from being blocked by broadcast or multicast storms in the LAN, which may affect network communication. Support port rate limiting based on broadcast, multicast, and unknown unicast packets.
Approval	
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020)
Safety	CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)
Chemistry	CE-RoHS (201165EU); WEEE (201219EU); Reach (Regulation (EC) No.19072006)

▪ Available Model

DS-3E1552P-SI

- **Typical Application**

Headquater

Branch A

Branch B

Internet Gateway

Internet Gateway

Smart Managed Switch

Smart Managed Switch

Camera Intercom Wireless AP

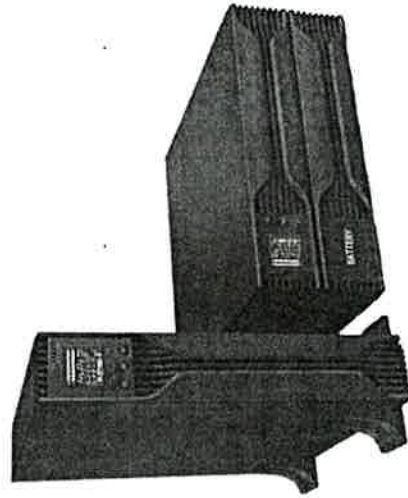Camera Intercom Wireless AP

- **Dimension**

440 mm

44 mm

323.8 mm

UR Series Line Interactive UPS

1000-5000VA

Application

- Personal computer
- TV/FAN/Microwave oven/Washing machine
- Air conditioner
- Refrigerator/Freezer
- POS terminals
- Security system
- Servers and workstations
- Fax machine

Feature

- Pure sine wave output
- DSP digital control
- Advanced AVR for voltage stabilization
- Cold start function
- Intelligent battery management
- LCD panel
- Off-mode charging
- Short circuit and overload protection

Specification

MODEL	UR1000	UR1500	UR2000	UR3000	UR5000
Capacity	1000VA	1500VA	2000VA	3000VA	5000VA
	700W	1050W	1400W	2100W	3500W
AC MODE					
Input Voltage	85-145Vac or 145-275Vac				145-275Vac
Input Frequency	45-65Hz				
Output Voltage	100-127Vac or 200-240Vac				200-240Vac
INVERTER MODE					
Output Voltage	120V±5% or 220V±5%				220V±5%
Output Frequency	50±0.5Hz				
Power Factor	0.7				
Output Wave Form	Pure Sine Wave				
Transfer Time	Typical 2-6ms, 10ms max.				
Overload Capacity	110% shut down within 60 seconds; 120% shut down within 5 seconds				
Over Current Protection	System shuts down automatically within 20ms				
BATTERY					
Battery Type	Sealed maintenance-free lead-acid batteries				
DC Voltage	24Vdc		48Vdc		
QTY & Capacity of Battery	7Ahx2	9Ahx2	7Ahx4	9Ahx4	9Ahx4
Charging Current	1A				
Charging Period	6-8 hours recover to 90% capacity				
Battery EOD Point	Adjustable				
PROTECTION					
Full Protection	Low voltage & overload & short circuit protection				
INDICATOR					
LCD or LED	LCD display				
INTERFACE					
USB/RJ45 or RS232/RJ45 or None	Optional, support windows XP/Vista, Windows 7/8, Linux, Unix, and MAC				
ENVIRONMENT					
Operation Temperature	0-40°C				
Humidity	20-90% (Non-condensing)				
Noise Level	≤40dB(1m away)				
Altitude	The altitude should not exceed 1000m, and the height above 1000m should be reduced to a maximum of 4000m. Refer to IEC62040				
PHYSICAL					
Net Weight (kg)	16.2	19.2	26.6	28.5	39
Dimension (mm)	441x445x88	441x445x88	441x445x88	441x445x88	441x445x132

P/N:WCC
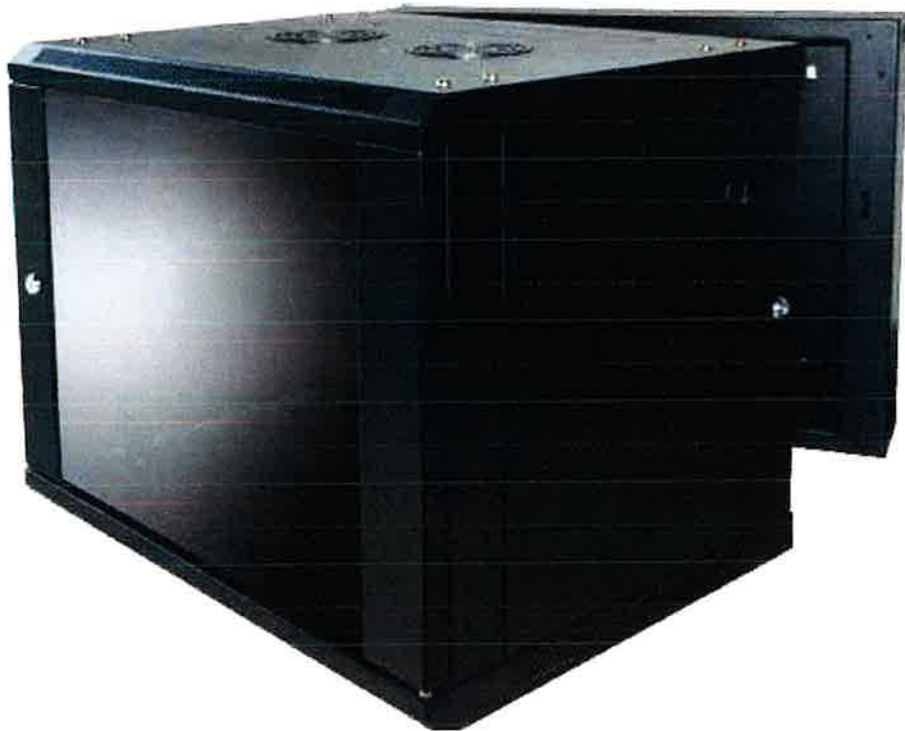
STANDARD

Comply with ANSI/EIA RS-310-D, DIN41491; PART1, IEC297-2,
DIN41494; PART7, GB/T3047.2-92.
Compatible with metric, ETSI and 19' international standard.

FEATURES

- Exquisite design with precise dimension and craftsmanship.
- International popular smoky-gray glass front door.
- Easily be mounted on wall, or placed on floor after installed castor or feet.
- Loading capacity: 60KG.
- Top and bottom wiring channel could be closed.
- Removable front door and side panel, easily installing and maintaining
- Surface finish: Degreased, acid cleaned, phosphoric, water cleaned, electro-static powder coating, meet ROHS standard.
- Optional color: black/gray
- Optional accessories.

MATERIALS

Cool rolled steel
Thickness: Vertical rail:1.5mm
Else in 1.2mm
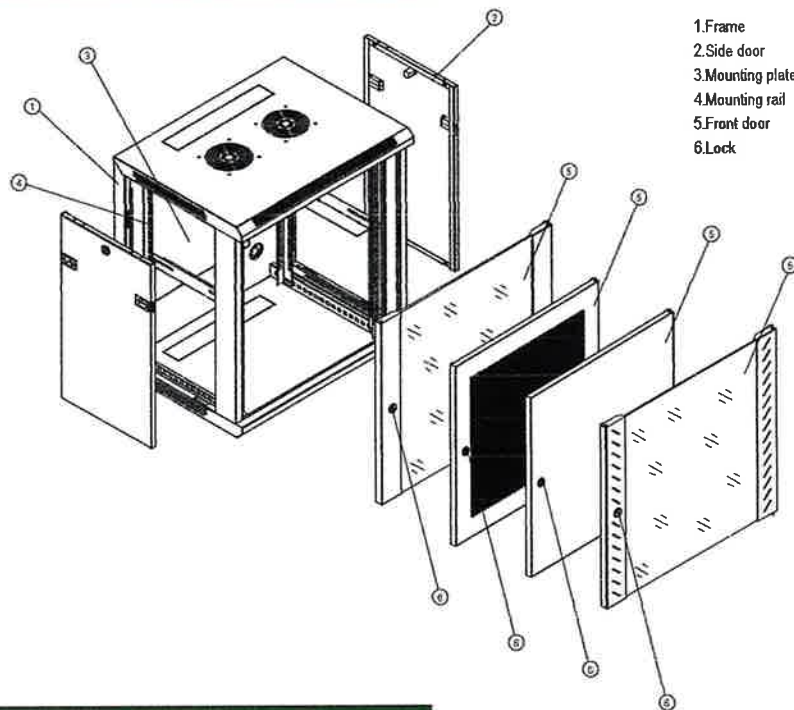Tempered smoky-gray glass with thickness of 5mm.

APPLICATION

Widely used in network system, educational system, broadcasting system and telecommunication system. Suitable for placing server computer and precision electronic equipments.

LINKBASIC 兰贝

WCB CABINET P/N:WCB

P/N:WCB

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Comply with ANSI/EIA RS-310-D, DIN41491; PART1, IEC297-2, DIN41494; PART7, GB/T3047.2-92 standard.
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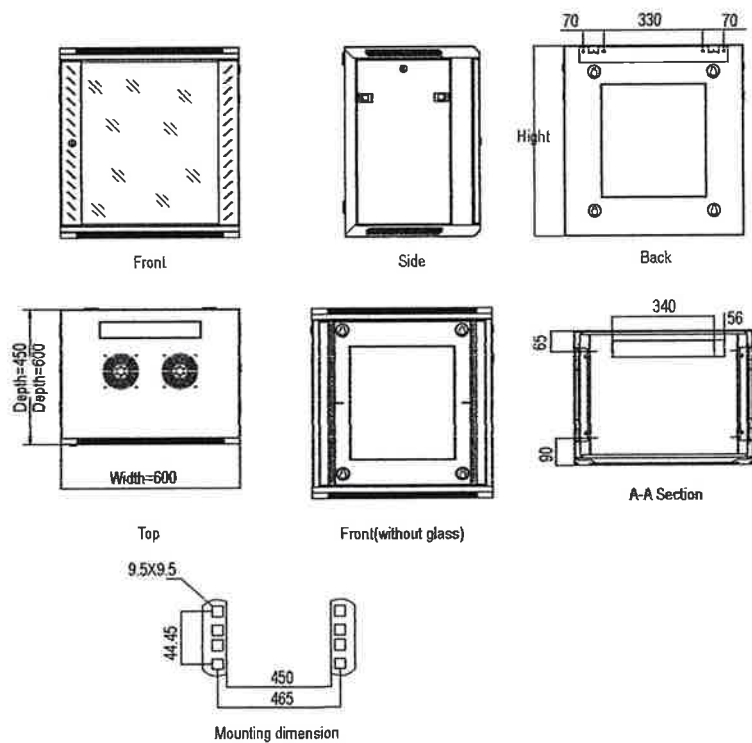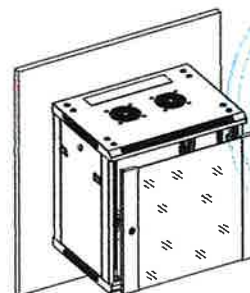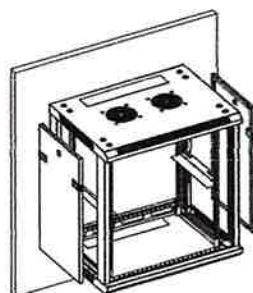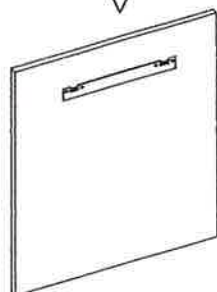
WCB CABINET   P/N:WCB

STRUCTURAL

1.Frame
2.Side door
3.Mounting plate
4.Mounting rail
5.Front door
6.Lock

DIMENSION (MM)

70 330 70

Hight

Front

Side

Back

Depth=450
Depth=600

Width=600

340 56

65

90

Top

Front(without glass)

A-A Section

9.5X9.5

44.45

450
465

Mounting dimension

WCB CABINET   P/N:WCB

STRUCTURAL (SPLIT TYPE)

A package(with top/bottom plate)

B package(back door, L guide rail, frame, mounting plate,
frame holder, support, side door, front door)

WCB CABINET & ENCLOSURE

LINKBASIC 兰贝

WCB CABINET   P/N:WCB

STANDARD ACCESSORIES (WCB)

S/N	Specification	Qty	Unit	Material	surface finish	Remark
1	Frame	2	Pcs	1.2mm cold rolled steel	Powder coated	---
2	Front door	1	Pcs	1.2mm cold rolled steel	---	B type door
3	Side door	2	Pcs	1.2mm cold rolled steel	Powder coated	With lock
4	lock	1	Pcs	---	---	---
5	Mounting rail	4	Pcs	1.5mm cold rolled steel	Powder coated	---
6	Mounting plate	1	Pcs	1.2mm cold rolled steel	Powder coated	---
7	Cable inlet cap	2	Pcs	1.2mm cold rolled steel	Powder coated	---
8	Screws &nuts	10	sets	---	---	---
9	wrench	1	Pcs	---	---	---

ORDER INFORMATION

Part No	Capacity/U	Width/mm	Depth/mm	Height/mm	Carton measurement			Volume/CBM
					Width/m	Depth/m	Height/m	
WCB06-645-*☆	6U	600	450	368	0.67	0.52	0.43	0.15
WCB09-645-*☆	9U	600	450	501	0.67	0.52	0.56	0.20
WCB12-645-*☆	12U	600	450	635	0.67	0.52	0.70	0.24
WCB15-645-*☆	15U	600	450	769	0.67	0.52	0.83	0.29
WCB18-645-*☆	18U	600	450	901	0.67	0.52	0.96	0.33
WCB22-645-*☆	22U	600	450	1082	0.67	0.52	1.14	0.40
WCB06-66-*☆	6U	600	600	368	0.67	0.67	0.43	0.19
WCB09-66-*☆	9U	600	600	501	0.67	0.67	0.56	0.25
WCB12-66-*☆	12U	600	600	635	0.67	0.67	0.70	0.31
WCB15-66-*☆	15U	600	600	769	0.67	0.67	0.83	0.37
WCB18-66-*☆	18U	600	600	901	0.67	0.67	0.96	0.43
WCB22-66-*☆	22U	600	600	1082	0.67	0.67	1.14	0.51

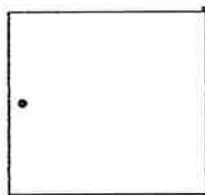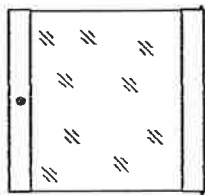**WCB CAB** CABINET & ENCLOSURE

WCB CABINET   P/N:WCB

RAMARKS

∗ = Front door

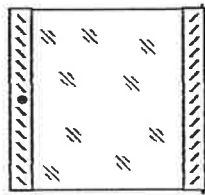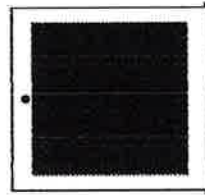### DOORS

A=Steel Casement Door

B=Smoky-grey glass door

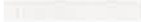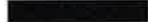C=Smoky-gray glass door with frame punched

D=Perforation steel door with high ventilation level(hexagonal type)

COLOR

☆ = Colors

A= Black(RAL9004)

B=Gray(RAL7044)

CAT 6 UTP SOLID CABLE CLA04-UC6

[PRODUCT DESCRIPTION]

- Rated temperature:70℃
- Reference standard:UL Subject 444, EIA/TIA 568B.2-10& ISO/IEC 11801, IEC 61156
- Solid bare copper conductor
- Colour-coded PE insulation
- Rip cord (optional)
- PVC or LSZH jacket
- Packaging: Reel,Reel in Box

[APPLICATION]

- 100 Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM

[CONSTRUCTION]

Structure	Construction	UTP
	Number of Pairs	4 Pair
	AWG	23AWG
	Conductor Dimension (mm)	0.565
	Solid or Stranded; Bare or Tinned	Solid Bare Copper
Insulation	insulation material	HDPE
	Insulation Dimension [mm]	1.02

	Number Colour (Ring or Strip marking)	1.White/B[ue(Ring) & Blue,2.White/Orange(Nng) & Oange,3.White/Gem(Rhg) & Green,4.White/Brown(Ping) & Btuwn
	Cross Filler	Yes
Shield	IndividualSinleld & Material	No
	Outer Shield & Material	No
	Drain Wire	No
Outer Jacket	Outer Jacket Material	PVC 或（LSZH）
	Outer Jacket Ripcord	Based On Customer Requirements
	Overall Nominal Diameter (mm)	23AWG UTP nom:6.2±o.3mm

[ELECTRICAL CHARACTERISTICS]

MAX. Matual Capacitance @ kHz	≤5.6 nF/100M
MAX. Capacitance unbalance (pF/ 100m)	≤330pF/100M
Nominal Velocity of Propagation	69%
Max. Delay Skew (ns/100m)	45ns/100M
Max. Conductor DC Resistance @ 20 Deg. C	8.22Ω /100M
Max. DC Resistance unbalance @ 20 Deg. C	≤2%
Max. Insulation resistance (MΩ/ k m)	5000
Max. Operating Voltage-UL	300V

[MECHANICAL CHARACTERISTICS]

Operating Temp. Range	-20~75℃
Max. Recommended	100N
PullingTension Min. Bend Radius (Install)	10x O.D.
Flame Test	CMX, CMR, CM

[ORDER INFROMATION]

Part number	Description	AWG	Standard color	Packing Type	Carton	Carton measurement	Carton weight
CLA04-UC6	Cat 6 UTP solid cable	23AWG	RAL7035	Box	305m(1000ft)	L36.5 cm×W25.5cm×H37cm	14.10KG
CLA04-UC6-CMR	Cat 6 UTP solid cable	23AWG	RAL7035	Box	305m(1000ft)	L36.5 cm×W25.5cm×H37cm	14.10KG
CLA04-UC6-LSZH	Cat 6 UTP solid cable	23AWG	RAL7035	Box	305m(1000ft)	L36.5 cm×W25.5cm×H37cm	13.90KG

SKYHAWK
SURVEILLANCE

Ⓢ SEAGATE

3.5 HARD DRIVE DATA SHEET

Smart. Safe. Secure.
Surveillance-Specialized Storage

SkyHawk™ leverages Seagate's extensive experience in designing drives purpose-built for surveillance applications.

Best-Fit Applications

- Network video recorders (NVR)
- Surveillance DVRs

SKYHAWK
HEALTH

Key Advantages

ImagePerfect™ firmware is designed to ensure seamless video footage capture in 24×7 surveillance workloads[1] that record video from 64 HD cameras.

SkyHawk Health Management actively helps protect your surveillance storage by focusing on prevention, intervention, and recovery options.[2] Included is RAID RapidRebuild™, which provides 3× faster volume rebuilds over traditional RAID rebuilds.

RV sensors built in allow drives to maintain performance in multi-bay systems, giving customers the flexibility to scale their systems when more storage is needed.

ATA streaming support enables recordings from up to 64 HD cameras for smooth, uninterrupted footage.

1M hours MTBF, 3-year limited warranty[3] represents an improved total cost of ownership (TCO) with reduced maintenance costs.

Lower power consumption means a reduction in heat emissions, which improves reliability in surveillance solutions. Tarnish-resistant components help protect drive from environmental elements, increasing field reliability.

Unparalleled data protection with an optional 2-year Rescue Data Recovery Services plan, providing access to Seagate's secure labs with industry-leading data recovery success rates.

1 SkyHawk surveillance drives are designed for always-on workloads of 180TB/year. For higher-rate workloads, see Seagate's enterprise class drive offerings.

2 Contact your Seagate sales representative for further information.

3 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.

Specifications	8TB	8TB	6TB	6TB	4TB
Standard Model Numbers	ST8000VX004	ST8000VX0022	ST6000VX001	ST6000VX0023	ST4000VX007
SkyHawk Health Management Included	Yes	Yes	Yes	Yes	Yes
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features and Performance					
Drive Bays Supported	Up to 16	Up to 16	Up to 16	Up to 16	Up to 16
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	Yes	Yes	Yes	Yes	Yes
Max. Sustained Transfer Rate OD (MB/s)	210MB/s	210MB/s	180MB/s	195MB/s	190MB/s
Cache (MB)	256	256	256	256	64
Reliability/Data Integrity					
Tarnish Resistant	Yes	Yes	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	300,000	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E15	1 per 10E15	1 per 10E14	1 per 10E15	1 per 10E14
Power-On Hours per Year (24×7)	8760	8760	8760	8760	8760
Workload Rate Limit (WRL)	180	180	180	180	180
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years)	3	3	3	3	3
Power Management					
Startup Current, Typical (12V, A)	1.8	2.0	1.8	2	1.8
Average Operating Power (W)	8.73W	9.0W	5W	9W	5.5W
Idle Average (W)	7.06W	7.6W	3.4W	7.2W	3.2W
Standby Mode/Sleep Mode, Typical (W)	0.96/0.96	0.6/0.6	0.25/0.25	0.6/0.6	0.25/0.25
Voltage Tolerance (5V)	+10/-5%	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%	±10%
Environmental Temperature					
Operating (ambient, min °C)	5	5	0	5	0
Operating (drive case, max °C)	70	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40	-40
Physical					
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	716g/1.579lb	780g/1.72lb	610g/1.345lb	705g/1.55lb	635g/1.40lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8	40/8

1 Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

2 SkyHawk surveillance drives are designed for always-on workloads of 180TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

3 Extended warranty options available. Consult your distributor for details.

4 Seagate does not recommend operating at sustained extreme temperatures. Operating at higher temperatures will reduce useful life of the products.

Specifications	3TB	3TB	2TB	1TB
Standard Model Numbers	ST3000VX009	ST3000VX010	ST2000VX008	ST1000VX005
SkyHawk Health Management Included	—	—	—	—
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features and Performance				
Drive Bays Supported	Up to 8	Up to 8	Up to 8	Up to 8
Cameras Supported	Up to 64	Up to 64	Up to 64	Up to 64
RV Sensors	—	—	—	—
Max. Sustained Transfer Rate OD (MB/s)	180MB/s	190MB/s	180MB/s	180MB/s
Cache (MB)	256	64	64	64
Reliability/Data Integrity				
Tarnish Resistant	Yes	Yes	Yes	Yes
Load/Unload Cycles	300,000	300,000	300,000	—
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours per Year (24×7)	8760	8760	8760	8760
Workload Rate Limit (WRL)	180	180	180	180
MTBF	1,000,000hr	1,000,000hr	1,000,000hr	1,000,000hr
Warranty, Limited (years)	3	3	3	3
Power Management				
Startup Current, Typical (12V, A)	1.8	1.8	1.8	1.8
Average Operating Power (W)	3.5W	5.6W	5.6W	5.6W
Idle Average (W)	2.5W	4.0W	4.0W	4.0W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.5/0.5	0.5/0.5	0.5/0.5
Voltage Tolerance (5V)	±5%	±5%	±5%	±5%
Voltage Tolerance (12V)	±10%	±10%	±10%	±10%
Environmental Temperature				
Operating (ambient, min °C)	0	0	0	0
Operating (drive case, max °C)	70	70	70	70
Nonoperating (ambient, min °C)	-40	-40	-40	-40
Physical				
Height (mm/in, max)	20.20mm/0.795in	26.11mm/1.028in	26.11mm/1.028in	20.20mm/0.795in
Width (mm/in, max)	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in	101.85mm/4.01in
Depth (mm/in, max)	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb)	490g/1.08lb	490g/1.08lb	610g/1.345lb	415g/0.915lb
Carton Unit Quantity	25	20	20	25
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8	40/8

1 Later 6TB and 3TB models are ST6000VX001 and ST3000VX009.

2 SkyHawk surveillance drives are designed for always-on workloads of 180TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

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