

DS-9664NI-M16 M Series 8K NVR

Key Feature

- Up to 64-ch IP camera inputs
- Up to 2-ch@32 MP + 2-ch@8 MP/10-ch@8 MP/20-ch@4 MP/40-ch@1080p decoding capacity
- Up to 400 Mbps incoming bandwidth and 400 Mbps outgoing bandwidth
- 2 HDMI (different source) and 2 VGA (different source) interfaces, 8K or dual 4K video outputs
- Supports special cameras, including people counting camera, ANPR (automatic number plate recognition) camera, and fisheye camera
- Advanced streaming technology enables smooth live view in poor network conditions
- Supports RAID 0, 1, 5, 6, 10 and N+M hot spare for even more reliable data storage, effectively avoids data loss risks



Professional and Reliability

- H.265+ compression effectively reduces the storage space by up to 75%
- Dual-stream recording saves bandwidth
- Adopt stream over TLS encryption technology which provides more secure stream transmission service
- Support double verification for playback and downloading
- Solar-powered camera is connectable through OTAP protocol. NVR would get stream when user requests, and camera would send back videos according to the schedule

HD Video Output

- Provide independent HDMI and VGA outputs
- HDMI video output at up to 8K or dual 4K resolution

Storage and Playback

- 16 SATA interfaces for HDD connection (up to 16 TB capacity per HDD)
- 1 eSATA interface for HDD connection
- 16-ch synchronous playback

Smart & POS Function

- Support multiple VCA (Video Content Analytics) events
- Configurable special camera smart functions, such as VCA detection (motion, line crossing, intrusion, etc.), heat map, ANPR, and people counting
- POS information overlay on live view and playback, and POS triggered recording and alarm

Network & Ethernet Access

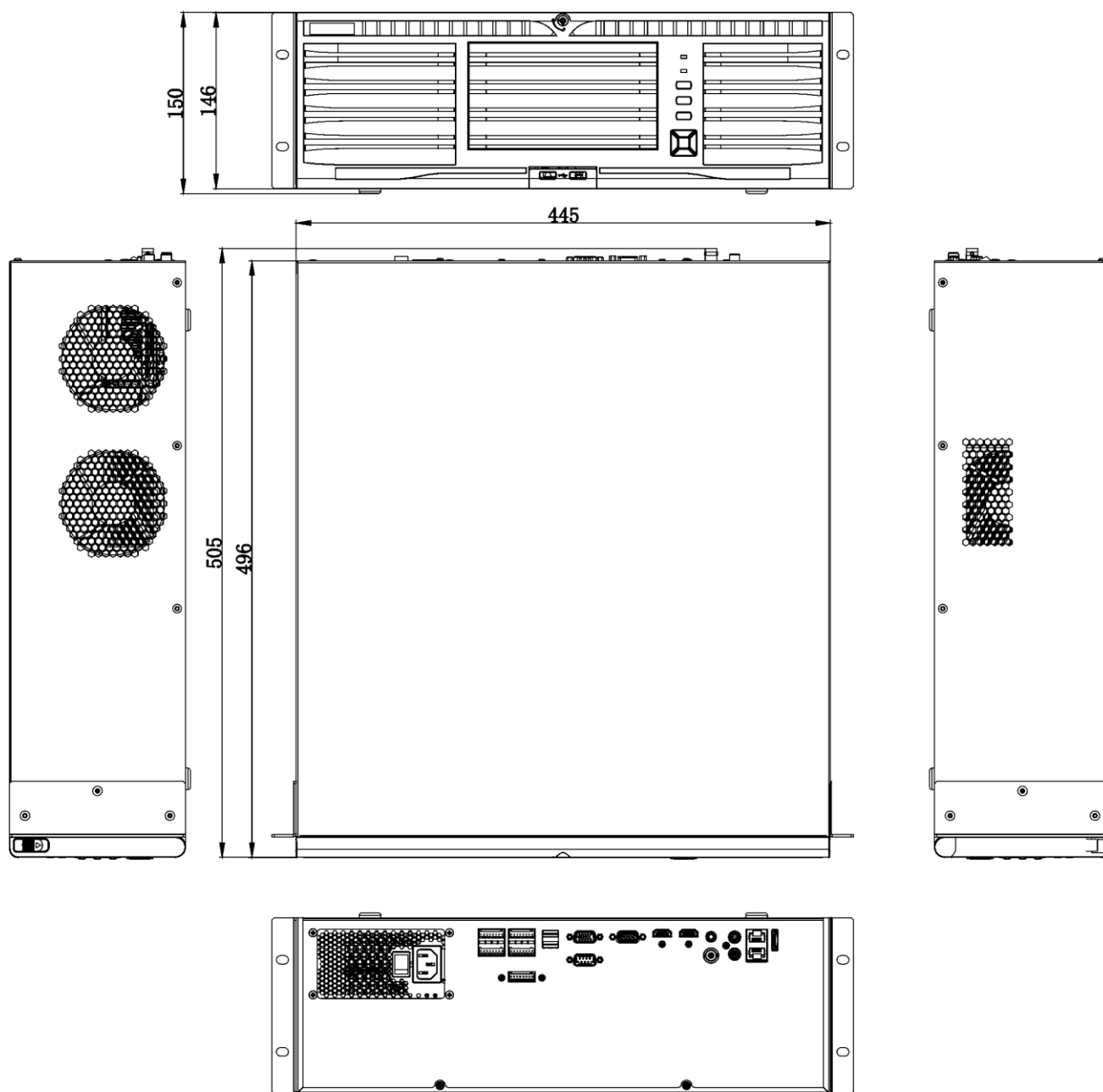
- 2 self-adaptive 10/100/1000 Mbps Ethernet interfaces
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Smooth streaming technology
- Support web access without plug-in

▪ Specification

Video and Audio	
IP Video Input	64-ch
Incoming Bandwidth	400 Mbps
Outgoing Bandwidth	400 Mbps
HDMI 1 Output	8K (7680 × 4320)/30Hz, 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
HDMI 2 Output	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz *: When HDMI 1 output resolution is 8K, the maximum HDMI 2 output resolution is 1080p.
VGA 1 Output	1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA 2 Output	1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
Video Output Mode	HDMI 1 and VGA 1 provide simultaneous video output, and work as the main output; HDMI 2 and VGA 2 provide simultaneous video output, and work as the auxiliary output
CVBS Output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio Input	1-ch, RCA (2.0 Vp-p, 1 KΩ)
Audio Output	2-ch, RCA (Linear, 1 KΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 k Ω)
Decoding	
Decoding Format	H.265/H.265+/H.264/H.264+
Recording Resolution	32 MP/24 MP/12 MP/8 MP/7 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous playback	16-ch

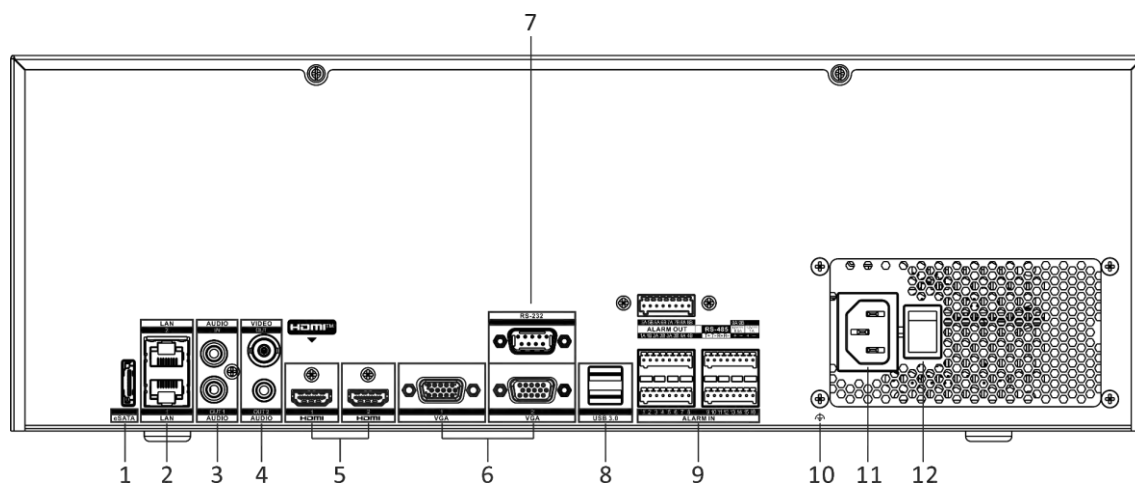
Decoding Capability	2-ch@32 MP (30 fps) + 2-ch@8 MP (30 fps)/10-ch@8 MP (30 fps)/20-ch@4 MP (30 fps)/40-ch@1080p (30 fps)
Audio Compression	G.711ulaw/G.711alaw/G.722/G.726/AAC/MP2L2/PCM
Network	
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network Interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
RAID	
RAID Type	RAID0, RAID1, RAID5, RAID6, RAID10
Auxiliary Interface	
Serial Interface	1 RS-485 (full-duplex), 1 RS-232
SATA	16 SATA interfaces supporting hot-plug
eSATA	1 eSATA interface
Capacity	Up to 16 TB capacity for each disk
Alarm In/Out	16/9
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 2 × USB 3.0
Ctrl 12V	Controllable 12 VDC, 1 A power output for external alarm device; The power will be turned on when the alarm output is triggered. *: The Ctrl 12V power is controlled by alarm output 9.
DC 12V	12 VDC, 1 A power output
General	
Power Supply	100 to 240 VAC, 50 to 60 Hz
Consumption	≤ 50 W (without HDD)
Working Temperature	-10 °C to 55 °C (14 °F to 131 °F)
Working Humidity	10% to 90%
Chassis	3U chassis
Dimension (W × D × H)	445 × 496 × 150 mm (17.5" × 19.5" × 5.9")
Weight	≤ 12.5 kg (without HDD, 27.6 lb.)
Certification	
Obtained Certification	CE, FCC
FCC	Part 15 Subpart B, ANSI C63.4-2014
CE	EN 55032:2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4

Dimension



scale/1:1; Unit/mm

Physical Interface



No.	Description	No.	Description
1	eSATA interface	7	RS-232 Serial interface
2	LAN interfaces	8	USB 3.0 interfaces
3	Audio in and out	9	Alarm in, alarm out, RS-485 serial interface, Ctrl 12V and DC 12V
4	Audio out and video out	10	GND
5	HDMI 1 and HDMI 2 interfaces	11	100 to 240 VAC power supply
6	VGA 1 and VGA 2 interfaces	12	Power Switch

Available Model

DS-9664NI-M16

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DS-2CD2366G2-I(U)

6 MP AcuSense Powered-by-DarkFighter Fixed Turret Network Camera

AcuSense

Powered by

DarkFighter



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

▪ Specification

Camera	
Image Sensor	1/2.4" Progressive Scan CMOS
Max. Resolution	3200 × 1800
Min. Illumination	Color: 0.003 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°
Lens	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 105°, vertical FOV 55°, diagonal FOV 127°; 4 mm, horizontal FOV 78°, vertical FOV 38°, diagonal FOV 96°; 6 mm, horizontal FOV 51°, vertical FOV 26°, diagonal FOV 59°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
DORI	
DORI	2.8 mm: D: 76 m, O: 30 m, R: 15 m, I: 7 m; 4 mm: D: 115 m, O: 45 m, R: 23 m, I: 11 m; 6 mm: D: 164 m, O: 65 m, R: 32 m, I: 16 m
Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Main Stream	50 Hz: 25 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3200 × 1800, 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.265/H.264+/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 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR, VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region(s) for main stream and sub-stream
Audio	
Audio Type	-U: Mono sound
Audio Compression	-U: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC

Audio Bit Rate	-U: 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)
Audio Sampling Rate	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	-U: Yes
Network	
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, SRTP, SFTP
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.1/1.2/1.3, host authentication (MAC address)
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	
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC, HLC, 3D DNR
Privacy Mask	4 programmable polygon privacy masks
Interface	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Microphone	-U: Yes
Reset Key	Yes
Event	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection (support alarm triggered by specified target types (human and vehicle)), scene change detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture

Deep Learning Function	
Face Capture	Yes
General	
Power	12 VDC $\pm$ 25%, 0.45 A, max. 5.4 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 6.5 W
Material	Metal except for trim ring
Dimension	$\varnothing$ 138.3 mm $\times$ 111.4 mm ($\varnothing$ 5.4" $\times$ 4.4")
Package Dimension	170 mm $\times$ 170 mm $\times$ 150 mm (6.7" $\times$ 6.7" $\times$ 5.9")
Weight	Approx. 740 g (1.6 lb.)
With Package Weight	Approx. 1070 g (2.4 lb.)
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)
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	Heartbeat, mirror, flash log, password reset via email, pixel counter, anti-flicker
Approval	
EMC	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014, RCM: AS/NZS CISPR 32: 2015, KC: KN32: 2015, KN35: 2015
Safety	UL: UL 62368-1, CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017
Environment	CE-RoHS: 2011/65/EU, WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013

▪ 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.

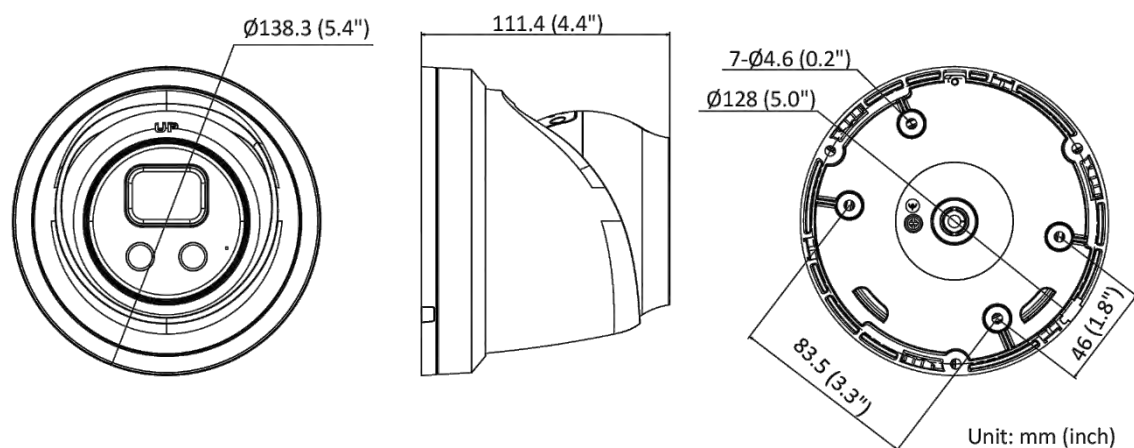
▪ Available Model

DS-2CD2366G2-I (2.8/4/6 mm)

DS-2CD2366G2-IU (2.8/4/6 mm)

DS-2CD2366G2-IU (2.8/4/6 mm) (Black)

▪ Dimension



DS-D5022FN00

21.5 inch FHD Borderless Monitor



- Ultra-thin device body with ultra-thin border for 3 sides.
- 8 bit LVDS HD (1920 × 1080) display.
- 178° ultra-wide view screen.
- 3D noise reduction.
- Low blue light design for eye care.
- Dual interface of HDMI and VGA.
- Supports VESA wall mount.

▪ Specification

Model		DS-D5022FN00
Display	Screen Size	21.5 inch
	Active Display Area	478.656 mm × 260.280 mm
	Resolution	1920 × 1080@60 Hz
	Backlight	E-LED
	Pixel Pitch	0.0831 mm (H) × 0.241 mm (V)
	Brightness	250 cd/m ²
	Viewing Angle	178° (H) / 178° (V)
	Color Depth	8 bit
	Contrast Ratio	3000 : 1
	Response Time	6.5 ms
	Refresh Rate	60 Hz
	Haze	Haze 25%, 3H
	Reliability	7 × 16 H
	Color Gamut	72% NTSC
Interface	Video & Audio Input	HDMI 1.4 × 1, VGA × 1
	Video & Audio Output	None
	Data Transmission Interface	None
	Control Interface	None
Power	Power Supply	DC 12V, 2.0A
	Power Consumption	≤ 24 W
	Standby Consumption	≤ 0.5 W
Working Environment	Working Temperature	0 °C to 40 °C (32 °F to 104 °F)
	Working Humidity	10% to 90% RH (Non-Condensing)
	Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
	Storage Humidity	0% to 90% RH
General	Casing Material	Plastic
	VESA	75 mm × 75 mm (4 - M4 × 6 mm)
	Bezel Width	6.85 mm (top/left/right), 21.55 mm (bottom)
	Product Dimensions (W × H × D)	492.4 mm × 390.1 mm × 200.2 mm (19.4 × 15.4 × 7.9 inch)
	Package Dimensions (W × H × D)	599 mm × 393 mm × 109 mm (23.6 × 15.5 × 4.3 inch)
	Net Weight	2.08 ± 0.5 kg (4.6 ± 1.1 lb.)
	Gross Weight	3.4 ± 0.5 kg (7.5 ± 1.1 lb.)
	Packing List	Monitor × 1, Base component × 1, Power adapter (12 V, 2.0 A) × 1, HDMI cable (1.5 m) × 1, User manual × 1, Multilingual manual × 1
	Remarks	If the appearance and parameters in this specification vary from the actual product, the later prevails. You can also consult local sale staff.

Physical Interface

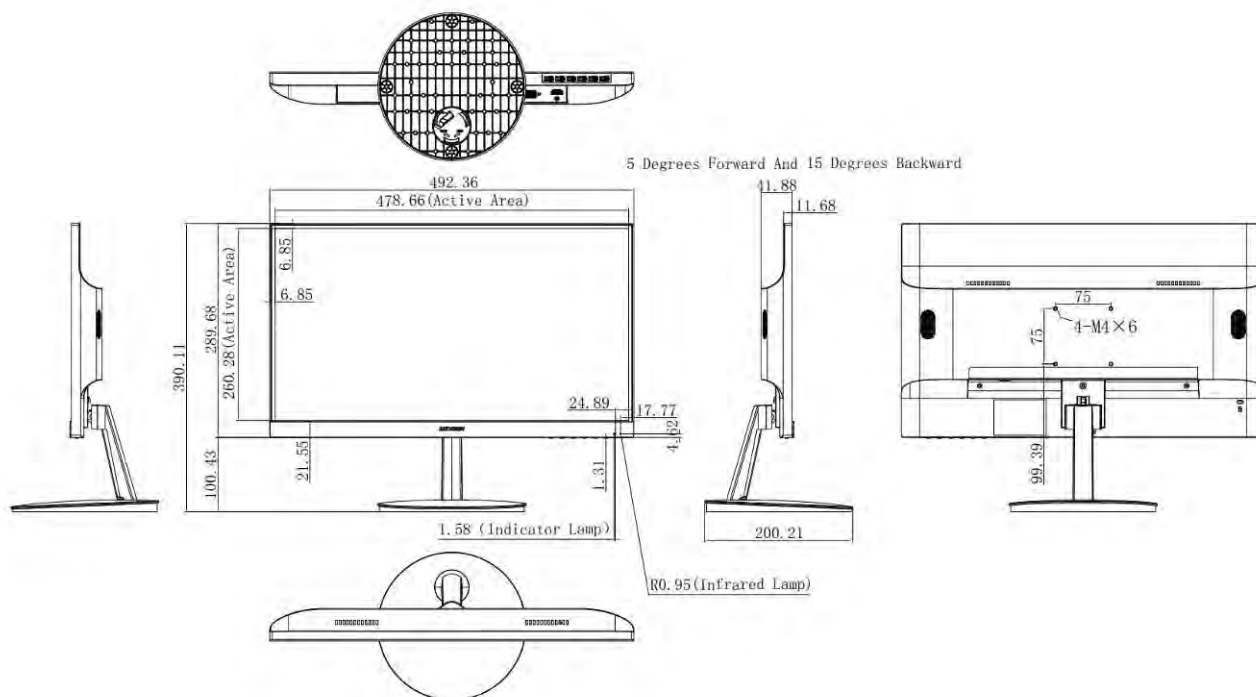
Interface	Description	Interface	Description
HDMI	HDMI 1.4 digital signal input interface	VGA	VGA analog signal input interface
DC	DC 12V , 2.0 A		



Available Model

DS-D5022FN00

Dimension



Unit: mm

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Unmanaged PoE/PoE+ Switch

MODEL: TL-SL1218MP

TL-SL1226P



Highlights

- 16/24 PoE+ 10/100 Mbps RJ45 ports, 2 Gigabit RJ45 ports and 2 combo Gigabit SFP slots
- High PoE power budget with up to 30 W* for each PoE port, and a total power budget of 192 W* for TL-SL1218MP and 250 W* for TL-SL1226P
- Up to 250 m data and power transmission under Extend Mode** specially designed for surveillance system
- Priority mode for port 1–8 to guarantee the quality of sensitive applications like video monitor
- (For TL-SL1226P) Isolation Mode allows one-click client traffic separation for higher security and performance
- Easy to use, with no configuration and installation needed

Overview

TP-Link's new PoE/PoE+ switches with all 10/100 Mbps RJ45 ports supporting the PoE+ standard provides a simple way to expand the wired network while transferring power over the same ethernet cable at the same time. With up to 30 W* per port, TL-SL1218MP and TL-SL1226P can power more high-powered devices such as Access Points, IP Cameras, IP Phones and so on. Moreover, with innovative Extend Mode**, devices can get PoE power supply and data transmission from a distance of 250 m. Priority mode ensures high priority for port 1–8, which guarantees the quality of sensitive applications. TL-SL1226P supports Isolation Mode that divides traffic for ports 1–24 for higher security and performance.

Power over Ethernet

- (For TL-SL1218MP) Features 16 802.3af/at compliant PoE+ ports, with a total PoE power budget of 192 W*
- (For TL-SL1226P) Features 24 802.3af/at compliant PoE+ ports, with a total PoE power budget of 250 W*
- Flexible deployment for PoE supported devices such as wireless access points, IP Phones and IP Cameras
- Designed to use a single Ethernet cable for both data and power transmission, lowering infrastructure costs

Highlight Performance

- Up to 250 m PoE power supply and data transmission under Extend Mode**.
- After turning on the Priority Mode, there will be designated high priority ports for quality-sensitive application like Surveillance Video.
- (For TL-SL1226P) Isolation Mode easily divides traffic for port 1–24 to avoid snooping and tampering, which improves LAN security and performance.

Easy to Use

- Plug & play, no configuration required
- Auto MDI/MDIX eliminates the need for crossover cables
- Auto-negotiation intelligently adjusts for compatibility and optimal performance

Specifications

Hardware Features & Performance

Product Picture			
Model		TL-SL1218MP	TL-SL1226P
General	Interfaces	16 10/100 Mbps RJ45 Ports 2 10/100/1000 Mbps RJ45 Ports 2 Combo Gigabit SFP Slots	24 10/100 Mbps RJ45 Ports 2 10/100/1000 Mbps RJ45 Ports 2 Combo Gigabit SFP Slots
PoE	PoE Standard	802.3af/at	802.3af/at
	PoE Ports*	16, up to 30 W	24, up to 30 W
	PoE Power Budget*	192 W	250 W
Performance	Switching Capacity	7.2 Gbps	8.8 Gbps
	Packet Forwarding Rate	5.36 Mpps	6.54 Mpps
	MAC Address Table	8 K	
	Packet Buffer	4.1 Mbit	
	Jumbo Frame	10 KB	
Physical & Environment	Power Supply	100–240 V AC, 50/60 Hz	
	Max Power Consumption	217.22 W (with 192 W PD Connected) 18.73 W (no PD Connected)	281 W (with 250 W PD Connected) 17.17 W (no PD Connected)
	Max Heat Dissipation	741.15 BTU/h (with 192 W PD Connected) 63.91 BTU/h (no PD Connected)	958.21 BTU/h (with 250 W PD Connected) 58.55 BTU/h (no PD Connected)
	Dimensions (W × D × H)	17.3 × 7.1 × 1.7 in.(440 × 180 × 44 mm)	
	Fan Quantity	2	
	Operating Temperature	0 °C–50 °C (32 °F–122 °F)	
	Storage Temperature	-40 °C–70 °C (-40 °F–158 °F)	
	Operating Humidity	10%–90%RH non-condensing	
	Storage Humidity	5%–90%RH non-condensing	
	Certification	CE, FCC	

Note:

* PoE budget calculations are based on laboratory testing. Actual PoE power budget is not guaranteed and will vary as a result of client limitations and environmental factors.

**The speed of the ports which are under extend mode will be downgraded to 10Mbps. Actual transmission distance may vary from the quality of the cables.

Ordering Information

Host Switches	
Product Model	Description
TL-SL1218MP	16-Port 10/100 Mbps + 2-Port Gigabit Unmanaged PoE Switch
TL-SL1226P	24-Port 10/100 Mbps + 2-Port Gigabit Unmanaged PoE+ Switch
SFP Modules	
Product Model	Description
TL-SM311LS	Gigabit SFP module, Single-mode, LC interface, Up to 10 km distance
TL-SM311LM	Gigabit SFP module, Multi-mode, LC interface, Up to 550 m distance
TL-SM321A	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector TX: 1550 nm/RX: 1310 nm, 10 km
TL-SM321B	Gigabit WDM Bi-Directional SFP Module, single-mode, LC connector TX: 1310 nm/RX: 1550 nm, 10 km
Router	
Product Model	Description
TL-ER6120	SafeStream Gigabit Dual-WAN VPN Router
TL-ER5120	Gigabit Load Balance Broadband Router

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