

Propuesta de valor:

“ADQUISICIÓN DE EQUIPOS Y MATERIALES DE  
VIDEOVIGILANCIA”

Referencia: JCE-CCC-LPN-2025-0008

Para:  
JUNTA CENTRAL ELECTORAL (JCE)

Fecha:  
13 DE ENERO 2026



i@tek



## Solución propuesta

La presente propuesta ha sido desarrollada considerando equipos y materiales que cumplen con las especificaciones técnicas y los requerimientos establecidos por el cliente. En función de esto, manifestamos nuestra disposición y capacidad para participar en los siguientes ítems de la licitación:

- Item 1: 72 NVR 32 Canales
- Item 2: 84 NVR 16 Canales
- Item 3: 2,436 Cámara Domo IP 4 MP
- Item 4: 504 Camaras Bullet IP 4 MP
- Item 5: 187 Cámaras Domo IP 4 K
- Item 6: 192 Cámaras Fisheye 6 MP
- Item 7: 84 Switch de 16 puertos
- Item 8: 24 Switch de 24 puertos
- Item 9: 48 Switch de 48 puertos
- Item 10: 144 Gabinetes Rack de 9U
- Item 11: 12 Gabinetes Rack de 7U
- Item 12: 156 UPS 1,500VA
- Item 13: 312 Disco duros de 8TB
- Item 14: 240 Rollo de cables UTP Cat. 6
- Item 15: 7,200 Conectores RJ45
- Item 16: 120 Jack Cat. 6
- Item 17: 3,120 Botas de protección de RJ 45 Azul.

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Santo Domingo, R.D.

**ITEM 1: NVR 32 Canales****Producto:** 32-ch 1.5U 8K DeepinMind NVR**Número de Parte:** iDS-7732NXI-M4/X**Cantidad:** 72 Unidades**Garantía:** Cinco (5) años

El **Hikvision iDS-7732NXI-M4/X** es un grabador de video en red (NVR) avanzado de 32 canales, diseñado para sistemas de videovigilancia profesionales. Integra tecnología de inteligencia artificial (IA) que permite funciones de detección de intrusos, reconocimiento facial y filtrado de falsas alarmas, mejorando la precisión en la identificación de personas y vehículos. Soporta resolución de hasta 12 MP por canal y ofrece una capacidad de decodificación eficiente gracias a su potente procesador y soporte para los códecs H.265+, H.265, H.264+ y H.264.

Cuenta con cuatro bahías para discos duros SATA, permitiendo una amplia capacidad de almacenamiento, ideal para proyectos de gran escala como hospitales, centros comerciales o infraestructuras críticas. Además, ofrece salida de video HDMI y VGA hasta 4K, acceso remoto mediante plataformas como Hik-Connect, y soporte ONVIF para compatibilidad con diversas marcas de cámaras IP. Su diseño robusto y su arquitectura inteligente lo convierten en una solución escalable y confiable para sistemas de seguridad de alto rendimiento.

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Propuesta de valor:





HDMI 2 Output 4K (3840×2160)/60Hz, 4K (3840×2160)/30Hz, 2K (2560×1440)/60Hz, 1920×1080/60Hz	HDMI 2 Output 4K (3840×2160)/60Hz, 4K (3840×2160)/30Hz, 2K (2560×1440)/60Hz, 1920×1080/60Hz	SI
Video Output Mode HDMI1/VGA1 simultáneos output, HDMI1/HDMI2 independiente output.	Video Output Mode HDMI1/VGA1 simultáneos output, HDMI1/HDMI2 independiente output.	SI
CVBS Output1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480.	CVBS Output1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480.	SI
Salida de audio1-ch, RCA (Linear, 1 KΩ).	Salida de audio1-ch, RCA (Linear, 1 KΩ).	SI
Formato de decodificación H.265 / H.265+ / H.264 / H.264+	Formato de decodificación H.265 / H.265+ / H.264 / H.264+	SI
Decodificación 2-ch@32 MP (30fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)/32-ch@ 2MP (30fps).	Decodificación2-ch@32 MP (30fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)/32-ch@ 2MP (30fps).	SI
Resolución de grabación 32MP/24MP/12MP/8MP/6MP/5MP/4MP/3MP/	Resolución de grabación 32MP/24MP/12MP/8MP/6MP/5MP/4MP/3MP/	SI
Conexión remota 128.	Conexión remota128.	
Protocolo de red TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF (Versión 2.2), OTAP APIONVIF (profile S/G); SDK; ISAPI	Protocolo de red TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF (Versión 2.2), OTAP APIONVIF (profile S/G); SDK; ISAPI	SI
Interfaz de red2, RJ-45 10/100/1000 Mbps selfadaptive Ethernet interface.	Interfaz de red2, RJ-45 10/100/1000 Mbps selfadaptive Ethernet interface.	SI
SATA4 SATA interfaces; 3.5-inch HDD.	SATA 4 SATA interfaces; 3.5-inch HDD.	SI
Capacidad Up to 16 TB capacity for each HDD.	Capacidad Up to 16 TB capacity for each HDD.	SI
Interfaz USB Front panel: 2 × USB 2.0; Rear panel: 1×USB 3.0.	Interfaz USB Front panel: 2 × USB 2.0; Rear panel: 1×USB 3.0.	SI
Alarma E/S16/4.	Alarma E/S16/4.	SI
CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS.	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS.	SI
FCCPart 15 Subpart B, ANSI C63.4-2014	FCCPart 15 Subpart B, ANSI C63.4-2014	SI

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**ITEM 2: NVR 16 Canales****Producto:** 16-ch 1.5U 8K DeepinMind NVR**Número de Parte:** iDS-7716NXI-M4/X**Cantidad:** 84 Unidades**Garantía:** Cinco (5) años

El Hikvision **iDS-7716NXI-M4/X** es un grabador de video en red (NVR) avanzado con capacidad para hasta 16 canales IP, diseñado para sistemas de videovigilancia que requieren funciones inteligentes de análisis de video. Soporta cámaras de hasta 12 MP de resolución y permite grabación en tiempo real con compresión eficiente H.265+, lo que optimiza el uso del almacenamiento sin comprometer la calidad de imagen. Su arquitectura de procesamiento incluye reconocimiento facial, detección de intrusos, cruce de líneas, entrada/salida de áreas, conteo de personas y más, lo que lo hace ideal para entornos que exigen una seguridad proactiva.

Cuenta con cuatro bahías para discos duros SATA que permiten almacenamiento escalable, múltiples puertos de red, salidas de video HDMI y VGA simultáneas, y una interfaz gráfica intuitiva para configuración y monitoreo. Este NVR es compatible con plataformas como Hik-Connect y iVMS-4200, lo que facilita el acceso remoto y la administración centralizada. Gracias a sus potentes funciones de inteligencia artificial, robusta capacidad de grabación y compatibilidad ONVIF, el iDS-7716NXI-M4/X es una solución flexible y confiable para proyectos de videoseguridad de nivel profesional.

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Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por iQtek Solutions	Cumple
16 canales.	16 canales.	SI
8K DeepinMind puertos virtuales.	8K DeepinMind puertos virtuales.	SI
IA mediante NVR Reconocimiento facial, protección perimetral, estructuralización de vídeo, AcuSearch; AI por cámara Reconocimiento facial, protección perimetral, estructuralización de video, AcuSearch, detección de movimiento 2.0, ANPR, conteo de personas, VCA.	IA mediante NVR Reconocimiento facial, protección perimetral, estructuralización de vídeo, AcuSearch; AI por cámara Reconocimiento facial, protección perimetral, estructuralización de video, AcuSearch, detección de movimiento 2.0, ANPR, conteo de personas, VCA.	SI
Detección y análisis faciales.	Detección y análisis faciales.	SI
Comparación de imágenes de rostros.	Comparación de imágenes de rostros.	SI
Captura de rostros humanos.	Captura de rostros humanos.	SI
Búsqueda de imágenes de rostros.	Búsqueda de imágenes de rostros.	SI
Biblioteca de imágenes de rostros.	Biblioteca de imágenes de rostros.	SI
Hasta 16 bibliotecas de imágenes de rostros.	Hasta 16 bibliotecas de imágenes de rostros.	SI
Hasta 100,000 imágenes de rostros en la biblioteca de lista	Hasta 100,000 imágenes de rostros en la biblioteca de lista	SI
Hasta 10,000 imágenes de rostros en la biblioteca de desconocidos.	Hasta 10,000 imágenes de rostros en la biblioteca de desconocidos.	SI
Hasta 5,000,000 de imágenes de rostros en captura de rostros (cada imagen = 4 MB, capacidad total = 20 GB).	Hasta 5,000,000 de imágenes de rostros en captura de rostros (cada imagen = 4 MB, capacidad total = 20 GB).	SI
Comparación de imágenes de rostros (capturadas desde la cámara).	Comparación de imágenes de rostros (capturadas desde la cámara).	SI
16 canales	16 canales	SI



Velocidad de comparación: 48 imágenes por segundo.	Velocidad de comparación: 48 imágenes por segundo.	SI
Entrada de vídeo IP 16-ch Up to 32 MP resolución.	Entrada de vídeo IP 16-ch Up to 32 MP resolución.	SI
HDMI 1 Output 8K (7680×4320)/30Hz, 4K (3840×2160)/60Hz, 4K (3840×2160)/30Hz, 2K(2560×1440)/60Hz, 1920×1080/60Hz.	HDMI 1 Output 8K (7680×4320)/30Hz, 4K (3840×2160)/60Hz, 4K (3840×2160)/30Hz, 2K(2560×1440)/60Hz, 1920×1080/60Hz.	SI
HDMI 2 Output 4K (3840×2160)/60Hz, 4K (3840×2160)/30Hz, 2K (2560×1440)/60Hz, 1920×1080/60Hz	HDMI 2 Output 4K (3840×2160)/60Hz, 4K (3840×2160)/30Hz, 2K (2560×1440)/60Hz, 1920×1080/60Hz	SI
Video Output Mode HDMI1/VGA1 simultáneos output, HDMI1/HDMI2 independiente output.	Video Output Mode HDMI1/VGA1 simultáneos output, HDMI1/HDMI2 independiente output.	SI
CVBS Output1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480.	CVBS Output1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480.	SI
Salida de audio1-ch, RCA (Linear, 1 KΩ).	Salida de audio1-ch, RCA (Linear, 1 KΩ).	SI
Formato de decodificación H.265 / H.265+ / H.264 / H.264+	Formato de decodificación H.265 / H.265+ / H.264 / H.264+	SI
Decodificación 2-ch@32 MP (30fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)	Decodificación2-ch@32 MP (30fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)	SI
Resolución de grabación 32MP/24MP/12MP/8MP/6MP/5MP/4MP/3MP/	Resolución de grabación 32MP/24MP/12MP/8MP/6MP/5MP/4MP/3MP/	SI
Conexión remota 128.	Conexión remota128.	SI
Protocolo de red TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF (Versión 2.2), OTAP APIONVIF (profile S/G); SDK; ISAPI	Protocolo de red TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF (Versión 2.2), OTAP APIONVIF (profile S/G); SDK; ISAPI	SI
Interfaz de red2, RJ-45 10/100/1000 Mbps selfadaptive Ethernet interface.	Interfaz de red2, RJ-45 10/100/1000 Mbps selfadaptive Ethernet interface.	SI
SATA4 SATA interfaces; 3.5-inch HDD.	SATA 4 SATA interfaces; 3.5-inch HDD.	SI
Capacidad Up to 16 TB capacity for each HDD.	Capacidad Up to 16 TB capacity for each HDD.	SI
Interfaz USB Front panel: 2 × USB 2.0; Rear panel: 1×USB 3.0.	Interfaz USB Front panel: 2 × USB 2.0; Rear panel: 1×USB 3.0.	SI

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Alarma E/S16/4.	Alarma E/S16/4.	SI
CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS.	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS.	SI
FCC Part 15 Subpart B, ANSI C63.4-2014	FCC Part 15 Subpart B, ANSI C63.4-2014	SI

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Propuesta de valor:



**ITEM 3: Cámara Domo IP 4 MP**

**Producto:** 4 MP AcuSense Fixed Dome Network Camera  
**Número de Parte:** DS-2CD3146G2-ISU(2.8mm)(H)(O-STD)  
**Cantidad:** 2,436 Unidades  
**Garantía:** Cinco (5) años



La **Hikvision DS-2CD3146G2-ISU(2.8mm)** es una cámara tipo domo IP de 4 megapíxeles con tecnología AcuSense, que permite una detección inteligente y precisa de personas y vehículos, reduciendo significativamente las falsas alarmas causadas por otros objetos. Su sensor CMOS de escaneo progresivo de 1/3" ofrece una resolución de hasta 2688 × 1520 a 30 fps, proporcionando imágenes nítidas y detalladas tanto de día como de noche gracias a su infrarrojo con alcance de hasta 30 metros.

Este modelo incluye un micrófono incorporado para grabación de audio, protección IP67 e IK10 para uso en exteriores y resistencia al vandalismo, además de soporte PoE para facilitar su instalación. También es compatible con tarjetas microSD de hasta 512 GB para grabación local. Gracias a su lente fija de 2.8 mm, ofrece un amplio ángulo de visión, ideal para aplicaciones en edificios comerciales, entradas, pasillos y áreas de vigilancia crítica donde se requiere monitoreo continuo con inteligencia analítica.

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Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Tipo domo IP, 4MP, AcuSense Fixed.	Domo IP, 4MP, AcuSense Fixed.	SI
Sensor de imagen 1/3" Progressive Scan CMOS.	Sensor de imagen 1/3" Progressive Scan CMOS.	SI
Max. Resolución 2688 × 1520.	Max. Resolución 2688 × 1520.	SI
Iluminación mínima color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR.	Iluminación mínima color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR.	SI
Tiempo de obturación 1/3s to 1/100,000 s.	Tiempo de obturación 1/3s to 1/100,000 s.	SI
Día y Noche IR cut filter.	Día y Noche IR cut filter.	SI
Ajuste de ángulo Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°.	Ajuste de ángulo Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°.	SI
<b>Lente:</b> Fixed focal lens, 2.8, 4, and 6 mm optional.	<b>Lente:</b> Fixed focal lens, 2.8, 4, and 6 mm optional.	SI
Montura del lente M12.	Montura del lente M12.	SI
Apertura F1.4	Apertura F1.4	SI
<b>Video:</b> Main stream 50 Hz: 25fps (2688×1520, 1920×1080, 1280×720); 60 Hz: 30fps (2688×1520, 1920×1080, 1280×720).	<b>Video:</b> Main stream 50 Hz: 25fps (2688×1520, 1920×1080, 1280×720); 60 Hz: 30fps (2688×1520, 1920×1080, 1280×720).	SI
Compresión de video Main stream: H.265/H.264 /H.264+/ H.265+.	Compresión de video Main stream: H.265/H.264 /H.264+/ H.265+.	SI
Sub-stream: H.265/H.264/MJPEG.	Sub-stream: H.265/H.264/MJPEG.	SI
<b>Red protocolo:</b> - 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, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP.	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, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP.	SI
<b>Imagen:</b> Wide Dynamic Range (WDR) 120 dB.	Wide Dynamic Range (WDR) 120 dB.	SI

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SNR = 52 dB.	SNR = 52 dB.	SI
Máscara de privacidad 4 programmable polygon privacy masks.	Máscara de privacidad 4 programmable polygon privacy masks.	SI
Ethernet Interface1 RJ45 10 M/100 M selfadaptive Ethernet port.	Ethernet Interface1 RJ45 10 M/100 M selfadaptive Ethernet port.	SI
Alarma1 input, 1 output (max. 12 VDC, 30 mA).	Alarma1 input, 1 output (max. 12 VDC, 30 mA).	SI
Salida de alimentación 12 VDC, max. 100 mA.	Salida de alimentación 12 VDC, max. 100 mA.	SI
Alimentation 12 VDC $\pm$ 25%, 0.62 A, max. 7.5 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection.	Alimentation 12 VDC $\pm$ 25%, 0.62 A, max. 7.5 W, $\varnothing$ 5.5 mm coaxial power plug, reverse polarity protection.	SI
PoE: IEEE 802.3af, Class 3, max. 9 W.	PoE: IEEE 802.3af, Class 3, max. 9 W.	SI
<b>Evento:</b> - BásicoMotion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception.	BásicoMotion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception.	SI



#### ITEM 4: Camaras Bullet IP 4 MP

**Producto:** 4 MP AcuSense Fixed Bullet Network Camera

**Número de Parte:** DS-2CD2043G2-I(2.8mm) (O-STD)

**Cantidad:** 504 Unidades

**Garantía:** Dos (2) años



El **Hikvision DS-2CD2043G2-I(2.8mm)** es una cámara IP tipo bullet de 4 megapíxeles equipada con tecnología AcuSense, diseñada para ofrecer una vigilancia inteligente y precisa. Cuenta con un sensor CMOS de escaneo progresivo de 1/3" que proporciona una resolución máxima de 2688 × 1520 píxeles, entregando imágenes nítidas incluso en condiciones de baja iluminación gracias a su sensibilidad de 0.003 Lux y visión nocturna IR de hasta 40 metros. Su lente fija de 2.8 mm ofrece un amplio campo de visión, ideal para supervisión de áreas extensas.

La cámara incorpora funciones avanzadas como detección de movimiento con clasificación de objetivos humanos y vehículos, reducción de falsas alarmas, WDR de 120 dB, compresión H.265+ y protección IP67 contra agua y polvo. Gracias a su diseño compacto, eficiencia de almacenamiento y soporte para PoE, es una solución versátil y confiable para instalaciones exteriores en aplicaciones comerciales, residenciales o industriales que requieren monitoreo continuo con análisis de video inteligente.

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Propuesta de valor:



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## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Tipo bullet, IP, 4MP, Acúsense.	Tipo bullet, IP, 4MP, Acúsense.	SI
Sensor de imagen 1/3" Progressive Scan CMOS.	Sensor de imagen 1/3" Progressive Scan CMOS.	SI
Iluminación mínima Color: 0.003 Lux @ (F1.4, AGC ON), B/w: 0 Lux with IR.	Iluminación mínima Color: 0.003 Lux @ (F1.4, AGC ON), B/w: 0 Lux with IR.	SI
Tiempo de obturación 1/3s to 1/100,000 s.	Tiempo de obturación 1/3s to 1/100,000 s.	SI
Día y Noche IR cut filter.	Día y Noche IR cut filter.	SI
Ajuste de ángulo Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	Ajuste de ángulo Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°	SI
<b>Lente:</b> Fixed focal lens, 2.8, 4, and 6 mm optional.	Fixed focal lens, 2.8, 4, and 6 mm optional.	SI
Focal & FOV 2.8 mm, horizontal FOV: 103°, vertical FOV: 55°, diagonal FOV: 123°.	Focal & FOV 2.8 mm, horizontal FOV: 103°, vertical FOV: 55°, diagonal FOV: 123°.	SI
Apertura F1.4	Apertura F1.4	SI
Montura del lente M12.	Montura del lente M12.	SI
<b>Iluminador:</b> - Rango de luz Up a 40 m.	Rango de luz Up a 40 m.	SI
<b>Video:</b> - Main stream 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720). - 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720).	- Main stream 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720). - 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720).	SI
- Sub-stream 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360). - 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360).	- Sub-stream 50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360). - 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360).	SI
Compresión de video Main stream: H.265/H.264 /H.264+ / H.265+.	Compresión de video Main stream: H.265/H.264 /H.264+ / H.265+.	SI
Sub-stream: H.265/H.264/MJPEG.	H.265/H.264/MJPEG.	SI
Vídeo bitrate 32 Kbps to 8 Mbps.	Vídeo bitrate 32 Kbps to 8 Mbps.	SI

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Codificación de video escalable (SVC) H.264 and H.265 encoding.	Codificación de video escalable (SVC) H.264 and H.265 encoding.	SI
<b>Red:</b> Vista en vivo simultáneaUp to 6 channels	Vista en vivo simultáneaUp to 6 channels	SI
Protocolos 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.	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.	SI
<b>Imagen:</b> SNR = 52 dB.	SNR = 52 dB.	SI
- Interruptor día/nocheDay, Night, Auto, Schedule.	Interruptor día/nocheDay, Night, Auto, Schedule.	SI
Wide Dynamic Range (WDR) 120 dB.	120 dB.	SI
<b>Interfaz:</b> - Ethernet Interface1 RJ45 10 M/100 M selfadaptive Ethernet port.	Ethernet Interface1 RJ45 10 M/100 M selfadaptive Ethernet port.	SI
<b>Evento inteligente:</b> - Line crossing detection, intrusion detection, region entrance detection, region exiting detection.	Line crossing detection, intrusion detection, region entrance detection, region exiting detection.	SI



## ITEM 5: Cámaras Domo IP 4 K

**Producto:** 8MP DeepinView PTRZ Moto Varifocal Dome Camera

**Número de Parte:** iDS-2CD7586G2-XZHS (2.8-12mm) (O-STD)

**Cantidad:** 187 Unidades

**Garantía:** Cinco (5) años



La Hikvision **iDS-2CD7586G2-XZHS (2.8-12mm) (O-STD)** es una cámara IP tipo domo antivandálica de 8 MP (4K) equipada con un sensor CMOS de 1/1.8", que proporciona imágenes de alta resolución incluso en condiciones de poca luz. Incorpora un lente varifocal motorizado de 2.8 a 12 mm, lo que permite ajustar el campo de visión de manera remota. La cámara incluye iluminación IR de hasta 50 metros para visión nocturna y cuenta con funciones avanzadas de imagen como WDR de 120 dB, reducción de ruido 3D y detección de rostros.

Esta cámara forma parte de la serie DeepinView, lo que le permite integrar análisis de video basados en inteligencia artificial, como conteo de personas, detección de filas, mapa de calor y protección perimetral con filtrado de falsas alarmas. Además, ofrece audio bidireccional, entrada/salida de alarma, ranura para microSD hasta 512 GB y resistencia ambiental con clasificación IP67 e IK10, ideal para aplicaciones críticas en entornos exigentes como edificios públicos, comercios o instalaciones de seguridad avanzada.

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Propuesta de valor:



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## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Tipo domo 4K DeepinView Varifocal, reconocimiento facial.	Cámara tipo domo antivandálica, resolución 8 MP (3840×2160), lente varifocal motorizado de 2.8–12 mm, tecnología DeepinView con funciones de reconocimiento facial y análisis de video basado en inteligencia artificial.	SI
<b>Cámara:</b> - Sensor de imagen 1/1.8" Progressive Scan CMOS.	Equipado con sensor CMOS de 1/1.8" para imágenes de alta calidad.	SI
Max. Resolución 3840×2160.	Soporta resolución máxima de 3840×2160 píxeles (8 MP).	SI
Iluminación mínima color: 0.002 Lux @ (F1.2, AGC ON); B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR.	Iluminación mínima en color de 0.0008 Lux @ (F1.2, AGC ON); en blanco y negro de 0.0001 Lux @ (F1.2, AGC ON); 0 Lux con IR.	SI
Tiempo de obturación 1 s to 1/100,000 s.	Rango de tiempo de obturación de 1 s a 1/100,000 s..	SI
Día y noche.	Día y noche.	SI
IR cut filter Blue glass module to reduce ghost phenomenon.	Incluye filtro de corte IR con módulo de vidrio azul para mejorar la calidad de imagen en condiciones de poca luz.	SI
Ajuste de ángulo Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°	Ajuste de ángulo con Pan: 0° a 355°, Tilt: 0° a 85°, Rotate: 0° a 355°.	SI
<b>Lente:</b> - Focal Length & FOV 2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3° 8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17°	Focal Length & FOV 2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3° 8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17°	SI
Enfoque Auto, Semi-auto, Manual.	Soporta modos de enfoque automático, semi-automático y manual.	SI
Apertura 2.8 to 12 mm: F1.2 to F2.5 8 to 32 mm: F1.7 to F1.73.	Apertura 2.8 to 12 mm: F1.2 to F2.5 8 to 32 mm: F1.7 to F1.73.	SI
<b>Video:</b> - Main stream 50 Hz: 25 fps (3840×2160, 3072 ×1728, 2560×1440, 1920×1080, 1280×720).	- Main stream 50 Hz: 25 fps (3840×2160, 3072 ×1728, 2560×1440, 1920×1080, 1280×720).	SI
60Hz: 30 fps (3840×2160, 3072×1728, 2560×1440, 1920×1080, 1280×720).	60Hz: 30 fps (3840×2160, 3072×1728, 2560×1440, 1920×1080, 1280×720).	SI
Compresión de video Main stream: H.265/H.264 /H.264+/ H.265+.	Compresión de video Main stream: H.265/H.264 /H.264+/ H.265+.	SI
Sub-stream: H.265/H.264/MJPEG.	Sub-stream: H.265/H.264/MJPEG.	SI

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Propuesta de valor:



Vídeo bitrate 32 Kbps to 16 Mbps.	Rango de bitrate de video ajustable entre 32 Kbps y 16 Mbps.	SI
Codificación de video escalable (SVC) H.264 and H.265 encoding.	Codificación de video escalable (SVC) H.264 and H.265 encoding	SI
<b>Red:</b> - Protocolos TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets.	- Protocolos TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets.	SI
Usuario/operador Up to 32 users 3 user levels: administrator, operator, and user.	Permite la gestión de hasta 32 usuarios con diferentes niveles de acceso.	SI
<b>Imagen:</b> - Interruptor día/noche Auto, Schedule, Alarm Triggge.	- Interruptor día/noche Auto, Schedule, Alarm Triggge.	SI
- Wide Dynamic Range (WDR).	Tecnología WDR de 140 dB para imágenes claras en condiciones de alto contraste de iluminación.	SI
<b>Interfaz:</b> - Ethernet Interface 1 RJ45 10 M/100 M/1000 Mself-adaptive Ethernet port.	- Ethernet Interface 1 RJ45 10 M/100 M/1000 Mself-adaptive Ethernet port.	SI
Alarma 1 input, 1 output (max. 24 VDC, 1 A).	Alarma 1 input, 1 output (max. 24 VDC, 1 A).	SI
Salida de alimentación 12 VDC, max. 100 Ma.	Salida de alimentación 12 VDC, max. 100 Ma.	SI
<b>Evento:</b> - Detección de movimiento (activación de alarma por tipos de objetivos específicos (humanos y vehículos), alarma de manipulación de video, excepción (red desconectada, conflicto de dirección IP, inicio de sesión ilegal, reinicio anormal, HDD lleno, error de HDD), diagnóstico de calidad de video, detección de vibración.	Detección de movimiento (activación de alarma por tipos de objetivos específicos (humanos y vehículos), alarma de manipulación de video, excepción (red desconectada, conflicto de dirección IP, inicio de sesión ilegal, reinicio anormal, HDD lleno, error de HDD), diagnóstico de calidad de video, detección de vibración.	SI
Evento inteligente Detección de cambios de escena, detección de excepciones de audio, detección de desenfoue.	Evento inteligente Detección de cambios de escena, detección de excepciones de audio, detección de desenfoue.	SI

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Propuesta de valor:



## ITEM 6: Cámaras Fisheye 6 MP

**Producto:** 6 MP DeepinView Fisheye Network Camera  
**Número de Parte:** DS-2CD6365G1-IVS(1.16mm)(O-STD)  
**Cantidad:** 192 Unidades  
**Garantía:** Cinco (5) años



La **Hikvision DS-2CD6365G1-IVS(1.16mm) (O-STD)** es una cámara tipo fisheye de 6 megapíxeles diseñada para ofrecer una visión panorámica de 360° en alta definición. Equipada con un sensor CMOS de 1/1.8" y una lente fija de 1.16 mm con apertura F2.25, proporciona imágenes nítidas incluso en condiciones de baja iluminación gracias a su IR integrado con visión nocturna. Su resolución máxima es de 2560×2560 píxeles y permite múltiples modos de visualización como vista esférica, panorámica 180° y combinaciones PTZ digitales.

Además de su capacidad de vigilancia completa sin puntos ciegos, este modelo destaca por sus funciones avanzadas de inteligencia artificial, como conteo de personas, mapas de calor y gestión de colas. Soporta 20 modos de visualización, análisis de audio, máscaras de privacidad programables, 2 entradas y 2 salidas de alarma, y está equipada con 4 micrófonos incorporados para una cobertura de audio ambiental. Cumple con estándares ONVIF y es ideal para aplicaciones en retail, estaciones, aeropuertos o cualquier entorno que requiera un monitoreo centralizado con alto detalle analítico.

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Propuesta de valor:



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## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Fisheye Deepin View 6 MP.	Fisheye Deepin View 6 MP.	SI
<b>Cámara:</b> - Sensor de imagen1/1.8" Progressive Scan CMOS.	Sensor de imagen1/1.8" Progressive Scan CMOS.	SI
Max. Resolución 2560x2560.	Max. Resolución 2560x2560.	SI
Iluminación mínima color: 0.01 lux @ (F2.25, AGC ON), B/W: 0.005 lux@ (F2.25, AGC ON), B/W: 0lux with IR.	Iluminación mínima color: 0.01 lux @ (F2.25, AGC ON), B/W: 0.005 lux@ (F2.25, AGC ON), B/W: 0lux with IR.	SI
Día y noche IR cut filter.	Día y noche IR cut filter.	SI
<b>Lente:</b> - Fixed focal lens, 1.16mm.	Fixed focal lens, 1.16mm.	SI
Focal length & FOV1.16mm, horizontal FOV 180° Vertical FOV 180°	Focal length & FOV1.16mm, horizontal FOV 180° Vertical FOV 180°	SI
Apertura F2.25.	Apertura F2.25.	SI
<b>Video:</b> - 50 Hz: 25 fps/60 Hz: 30 fps:	50 Hz: 25 fps/60 Hz: 30 fps	SI
Fisheye View: - 2560x2560, 2048x2048, 1280x1280	Fisheye View: - 2560x2560, 2048x2048, 1280x1280	SI
180 Panorama View: - 2048x1536, 1920x1440	180 Panorama View: - 2048x1536, 1920x1440	SI
180 Dual Channel Panorama View: - 2048x768, 1920x720	180 Dual Channel Panorama View: - 2048x768, 1920x720	SI
Panorama View: - 2048x1536, 1920x1440	Panorama View: - 2048x1536, 1920x1440	SI
4 PTZ View: - Cámara 01/cámara 02/cámara 03/cámara 04: 1024x768	4 PTZ View: - Cámara 01/cámara 02/cámara 03/cámara 04: 1024x768	SI
Fisheye + 3PTZ View: - Cámara 01: 2048x2048, 1024x1024 - Cámara 02/cámara 03/cámara 04: 1024x768	Fisheye + 3PTZ View: - Cámara 01: 2048x2048, 1024x1024 - Cámara 02/cámara 03/cámara 04: 1024x768	SI
4PTZ Fusion View: - 2048x1536, 1600x1200	4PTZ Fusion View: - 2048x1536, 1600x1200	SI
Compresión de video Main stream: H.265+/H.265/H.264+/ H.264	Compresión de video Main stream: H.265+/H.265/H.264+/ H.264	SI
Sub-stream: H.265/H.264/MJPEG	Sub-stream: H.265/H.264/MJPEG	SI
Vídeo bitrate32 Kbps to 16 Mbps	Vídeo bitrate32 Kbps to 16 Mbps	SI
Codificación de video escalable (SVC)H.264 and H.265 encoding	Codificación de video escalable (SVC)H.264 and H.265 encoding	SI
<b>Fisheye display:</b>	<b>Fisheye display:</b>	SI



- Modo de decodificación Support hardware decoding and software decoding	- Modo de decodificación Support hardware decoding and software decoding	
Modo de visualización	Modo de visualización	SI
20 display modes in total	20 display modes in total	SI
Software decoding: 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 + 8PTZ.	Software decoding: 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 + 8PTZ.	SI
<b>Red:</b> - Protocolos TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, B Vista en vivo simultánea Up to 20 channels.	Protocolos TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, B Vista en vivo simultánea Up to 20 channels.	SI
API Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP.	API Open Network Video Interface (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP.	SI
Máscara de privacidad 8 programmable polygon privacy masks.	Máscara de privacidad 8 programmable polygon privacy masks.	SI
<b>Interfaz:</b> - Ethernet Interface 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port.	<b>Interfaz:</b> - Ethernet Interface 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port.	SI
Micrófono incorporado Yes, 4 built-in microphones.	Micrófono incorporado Yes, 4 built-in microphones.	SI
Alarma 2 inputs, 2 outputs (max. 24 VDC, 1 A).	Alarma 2 inputs, 2 outputs (max. 24 VDC, 1 A).	SI
<b>Deep Learning function:</b> - Cuento las personas que entran, salen y pasan por separado (los datos se almacenen en la memoria flash).	Cuento las personas que entran, salen y pasan por separado (los datos se almacenen en la memoria flash).	SI
Gestión de colas Admita hasta 8 regiones de detección y programa de armado y método de vinculación independientes.	Gestión de colas Admita hasta 8 regiones de detección y programa de armado y método de vinculación independientes.	SI
Admita 2 modos de detección: personas en cola regional, detección de tiempo de espera.	Admite 2 modos de detección: personas en cola regional, detección de tiempo de espera.	SI
Mapa de calorías Una descripción gráfica de las visitas (calculando la cantidad de personas o el tiempo de permanencia) en un área configurada	Mapa de calorías Una descripción gráfica de las visitas (calculando la cantidad de personas o el tiempo de permanencia) en un área configurada	SI



**ITEM 7: Switch de 16 puertos****Producto:** 16 Port Gigabit Smart POE Switch**Número de Parte:** DS-3E1520HP-SI-16P2T2F**Cantidad:** 84 Unidades**Garantía:** Tres (3) años

Los switches inteligentes gestionados, desarrollados por Hikvision, ofrecen una gestión y un mantenimiento sencillos. Con nuestras plataformas de software, podrá implementar, supervisar y ampliar fácilmente su sistema de seguridad en cualquier momento y lugar. Podrá visualizar la topología de la red, supervisar su estado y recibir alarmas de los dispositivos en tiempo real, lo que reduce considerablemente los costes de operación y mantenimiento de la red.

Todos los switches incluyen sus GBICs **HK-SFP-1.25G-20-1310**.



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Propuesta de valor:



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## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
16 x puerto Gigabit PoE.	16 x puerto Gigabit PoE.	SI
2 x puerto Gigabit RJ45.	2 x Gigabit RJ45 port	SI
2 x puerto de fibra óptica Gigabit.	2 x Gigabit fiber optical port	SI
Tabla de direcciones MAC8K	Tabla de direcciones MAC 8K.	SI
Capacidad de conmutación 56 Gbps o más	Capacidad de conmutación 56 Gbps	SI
Caché interno 4.1 Mbits o más.	Caché interna 4.1 Mbits	SI
Fuente de alimentación PoE.	Fuente de alimentación PoE.	SI
Estándar PoE IEEE 802.3af, IEEE 802.3at.	Estándar PoE IEEE 802.3af, IEEE 802.3at.	SI
PoE: puertos 1 a 16	PoE: puertos 1 a 16	SI
Máx. puerto de alimentación. 30W.	Puertos 1 al 4: 90 W Puertos 5 al 16: 30 W.	SI
Presupuesto de energía PoE: 225 vatios.	Presupuesto de energía PoE. 230 vatios.	SI
Función de software	Vigilancia de PoE, VLAN, aislamiento del puerto, largo alcance, calidad de servicio y prevención de bucles	SI
Largo alcance puertos 1 a 16: hasta 300 m	Largo alcance puertos 1 a 16: hasta 300 m	SI
Aislamiento de puertos 1 a 16: modo de aislamiento de puertos para mejorar la seguridad de la red.	Aislamiento de puertos 1 a 20: modo de aislamiento de puertos para mejorar la seguridad de la red.	SI
Admita agregación de enlaces estáticos.	Admita agregación de enlaces estáticos.	SI
VLAN soporta 802.1Q.	VLAN soporta 802.1Q.	SI
ID de VLAN configurable desde 1-4094.	ID de VLAN configurable desde 1-4094.	SI
Soporte troncal, modo de puerto de acceso.	Soporte troncal, modo de puerto de acceso.	SI
Soporte máx. 4094 VLAN.	Soporte máx. 4094 VLAN.	SI



**ITEM 8: Switch de 24 puertos****Producto:** 24 Port Gigabit Smart POE Switch**Número de Parte:** DS-3E1528HP-SI-24P2T2F(O-STD)**Cantidad:** 24 Unidades**Garantía:** Tres (3) años

Los switches inteligentes gestionados, desarrollados por Hikvision, ofrecen una gestión y un mantenimiento sencillos. Con nuestras plataformas de software, podrá implementar, supervisar y ampliar fácilmente su sistema de seguridad en cualquier momento y lugar. Podrá visualizar la topología de la red, supervisar su estado y recibir alarmas de los dispositivos en tiempo real, lo que reduce considerablemente los costes de operación y mantenimiento de la red.

Todos los switches incluyen sus GBICs **HK-SFP-1.25G-20-1310**.



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Propuesta de valor:



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## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
24 x puerto Gigabit PoE.	24 x puerto Gigabit PoE.	SI
2 x puerto Gigabit RJ45.	2 x puerto Gigabit RJ45.	SI
2 x puerto de fibra óptica Gigabit.	2 x puerto de fibra óptica Gigabit.	SI
Tabla de direcciones MAC8K.	Tabla de direcciones MAC 8K	SI
Capacidad de conmutación 56 Gbps o más.	Capacidad de conmutación 56 Gbps	SI
Caché interno 4.1 Mbits o más.	Caché interno 4.1 Mbits	SI
Fuente de alimentación PoE.	Fuente de alimentación PoE.	SI
Estándar PoE IEEE 802.3af, IEEE 802.3at.	Estándar PoE IEEE 802.3af, IEEE 802.3at.	SI
PoE: puertos 1 a 24	PoE: puertos 1 a 24	SI
Máx. puerto de alimentación. 30W.	Puertos 1 a 4: 90 W Puertos 5 a 24: 30 W	SI
Presupuesto de energía PoE: 370 vatios.	Presupuesto de energía PoE. 370 vatios.	SI
Función de software	Vigilancia de PoE, VLAN, aislamiento del puerto, largo alcance, calidad de servicio y prevención de bucles.	SI
Largo alcance puertos 1 a 24: hasta 300 m	Largo alcance puertos 1 a 24: hasta 300 m	SI
Aislamiento de puertos 1 a 24: modo de aislamiento de puertos para mejorar la seguridad de la red.	Aislamiento de puertos 1 a 28: modo de aislamiento de puertos para mejorar la seguridad de la red.	SI
Admita agregación de enlaces estáticos.	Admita agregación de enlaces estáticos.	SI
VLAN soporta 802.1Q.	VLAN soporta 802.1Q.	SI
ID de VLAN configurable desde 1-4094.	ID de VLAN configurable desde 1-4094.	SI
Soporte troncal, modo de puerto de acceso.	Soporte troncal, modo de puerto de acceso.	SI
Soporte máx. 4094 VLAN.	Soporte máx. 4094 VLAN.	SI



**ITEM 9: Switch de 48 puertos****Producto:** 48 Port Gigabit Smart POE Switch**Número de Parte:** DS-3E1552P-SI**Cantidad:** 48 Unidades**Garantía:** Tres (3) años

El **DS-3E1552P-SI** es un switch inteligente gestionado de 48 puertos Gigabit PoE especialmente diseñado para entornos de videovigilancia y redes empresariales. Cumple los estándares IEEE 802.3af/at y ofrece una capacidad de alimentación PoE de hasta 30 W por puerto, con un presupuesto total de 470 W. Dispone además de 2 puertos Gigabit RJ45 y 2 puertos ópticos Gigabit SFP para enlaces ascendentes de alta velocidad, todo en un chasis metálico de formato rack 1U, con gestión avanzada de energía estrechamente controlada por microprocesador y protección contra sobretensiones de hasta 6 kV

Desde el punto de vista funcional, su capacidad de conmutación de 104 Gbps y una tabla MAC de 16 K entradas garantizan un rendimiento excelente y baja latencia. Entre sus funciones destacan: PoE Watchdog, aislamiento de puertos para seguridad, modo Long-Range que permite alimentar dispositivos a hasta 300 m, VLAN (802.1Q) con hasta 4094 VLANs, agregación de enlaces, QoS, detección de lazos, control de tormentas broadcast, y gestión vía SNMP y la plataforma Hik-Partner Pro para monitoreo remoto.

Todos los switches incluyen sus GBICs **HK-SFP-1.25G-20-1310**.



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Propuesta de valor:



## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
48 x puerto Gigabit PoE.	47x puerto Gigabit PoE.	SI
2 x puerto Gigabit RJ45	2 x puerto Gigabit RJ45	SI
2 x puerto de fibra óptica Gigabit.	2 x puerto de fibra óptica Gigabit.	SI
Tabla de direcciones MAC16K	Tabla de direcciones MAC16K	SI
Capacidad de conmutación 104 Gbps o más.	Capacidad de conmutación 104 Gbps	SI
Caché interno 12 Mbits o más	Caché interno 12 Mbits	SI
Fuente de alimentación PoE.	Fuente de alimentación PoE.	SI
Estándar PoE IEEE 802.3af, IEEE 802.3at.	Estándar PoE IEEE 802.3af, IEEE 802.3at.	SI
PoE: puertos 1 a 48	PoE: puertos 1 a 48	SI
Máx. puerto de alimentación. 30W.	Máx. puerto de alimentación. 30W.	SI
Presupuesto de energía PoE. 470 vatios.	Presupuesto de energía PoE. 470 vatios.	SI
Función de software	Vigilancia de PoE, VLAN, aislamiento del puerto, largo alcance, calidad de servicio y prevención de bucles.	SI
Largo alcance puertos 1 a 48: hasta 300 m	Largo alcance puertos 1 a 48: hasta 300 m	SI
Aislamiento de puertos 1 a 48: modo de aislamiento de puertos para mejorar la seguridad de la red.	Aislamiento de puertos 1 a 48: modo de aislamiento de puertos para mejorar la seguridad de la red.	SI
Admita agregación de enlaces estáticos.	Admita agregación de enlaces estáticos.	SI
VLAN soporta 802.1Q.	VLAN soporta 802.1Q.	SI
ID de VLAN configurable desde 1-4094.	ID de VLAN configurable desde 1-4094.	SI
Soporte troncal, modo de puerto de acceso.	Soporte troncal, modo de puerto de acceso.	SI
Soporte máx. 4094 VLAN.	Soporte máx. 4094 VLAN.	SI



**ITEM 10: Gabinetes Rack de 9U**

**Producto:** Nitrotel ASSEMBLE 9U Single Section  
**Número de Parte:** NTFWC9U600-A  
**Cantidad:** 144 Unidades  
**Garantía:** Dos (2) años



El modelo **NTFWC9U600-A** de Nitrotel es un gabinete mural de 9U diseñado para aplicaciones de telecomunicaciones y redes, ideal para instalaciones donde se requiere montaje en pared y un acceso frontal seguro. Pertenece a la línea de gabinetes de una sola sección con profundidad de 600 mm, lo que permite alojar equipos activos y pasivos de 19 pulgadas como switches, patch panels y dispositivos de distribución de cableado. Su construcción incorpora puerta frontal de vidrio templado con cerradura, paneles laterales desmontables, postes de montaje ajustables y sistema de ventilación con ventilador integrado, asegurando una adecuada gestión térmica y un montaje flexible.

El gabinete está fabricado en acero laminado en frío con acabado en pintura electrostática color negro RAL 9005 para garantizar durabilidad y resistencia a la corrosión. Incluye entrada de cables superior con cepillo, perforaciones inferiores para canalización, y puntos para instalación de accesorios internos. Cumple con estándares internacionales de infraestructura para centros de datos y telecomunicaciones, tales como normas ANSI/EIA y IEC para racks de 19 pulgadas, asegurando compatibilidad y robustez estructural en proyectos de cableado estructurado, sistemas de CCTV, control de acceso y aplicaciones TI en general.

**Tabla de Cumplimiento**

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
De 9U	9U	SI
Ancho 600mm (23.5")	600 mm	SI
Profundidad externa: 600mm (23.5").	550 mm útiles, 600 mm profundidad total	SI
Material: Estructura acero laminado en frío tratado con procesos desengrasantes.	Acero laminado en frío con tratamiento desengrasante	SI



01001100 0110100 01100111 0110011 01010000 0100101 01100001 01101011 01100101 00100000 01101001 01101000 00100000 01110111 01110010 01101011 01100011

Puerta abatible de vidrio de 4mm, opaco.	Puerta abatible con vidrio templado de 5 mm	SI
De pared	De pared	SI

01001100 01101010 01101010 00100111 01110011 00100000 01001101 01100001 01101011 01101011 00100000 01101001 01110100 00100000 01110111 01101111 01110010 01101011 01100001

Propuesta de valor:



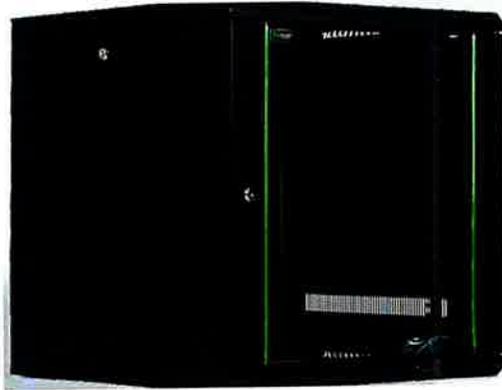
## ITEM 11: Gabinetes Rack de 7U

**Producto:** Nitrotel ASSEMBLE 7U Single Section

**Número de Parte:** NTFWC7U600-A

**Cantidad:** 12 Unidades

**Garantía:** Dos (2) años



El modelo **NTFWC7U600-A** de Nitrotel es un gabinete mural de 7U diseñado para aplicaciones de telecomunicaciones y redes, ideal para instalaciones donde se requiere montaje en pared y un acceso frontal seguro. Pertenece a la línea de gabinetes de una sola sección con profundidad de 600 mm, lo que permite alojar equipos activos y pasivos de 19 pulgadas como switches, patch panels y dispositivos de distribución de cableado. Su construcción incorpora puerta frontal de vidrio templado con cerradura, paneles laterales desmontables, postes de montaje ajustables y sistema de ventilación con ventilador integrado, asegurando una adecuada gestión térmica y un montaje flexible.

El gabinete está fabricado en acero laminado en frío con acabado en pintura electrostática color negro RAL 9005 para garantizar durabilidad y resistencia a la corrosión. Incluye entrada de cables superior con cepillo, perforaciones inferiores para canalización, y puntos para instalación de accesorios internos. Cumple con estándares internacionales de infraestructura para centros de datos y telecomunicaciones, tales como normas ANSI/EIA y IEC para racks de 19 pulgadas, asegurando compatibilidad y robustez estructural en proyectos de cableado estructurado, sistemas de CCTV, control de acceso y aplicaciones TI en general.

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Propuesta de valor:



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## Tabla de Cumplimiento

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
De 7U	7U	SI
Ancho 600mm (23.5")	600 mm	SI
Profundidad externa: 600mm (23.5").	550 mm útiles, 600 mm profundidad total	SI
Material: Estructura acero laminado en frío tratado con procesos desengrasantes.	Acero laminado en frío con tratamiento desengrasante	SI
Puerta abatible de vidrio de 4mm, opaco.	Puerta abatible con vidrio templado de 5 mm	SI
De pared	De pared	SI

01001100 01100101 01101000 00100111 01100111 00100000 01001101 01100001 01101011 01100101 00100000 01101001 01101000 00100000 01101111 01101111 01100101 01101011 00100000

Propuesta de valor:

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**ITEM 12: UPS 1,500VA****Producto:** UPS LI UNIPOWER RACK MOUNT 1500VA line interactive**Número de Parte:** UR1500**Cantidad:** 156 Unidades**Garantía:** Dos (2) años en piezas y 1 año en baterías.

El **UR1500** es una UPS interactiva de alto rendimiento diseñada para proteger desde equipos informáticos hasta sistemas CCTV y dispositivos de telecomunicaciones. Con una capacidad nominal de 1500 VA, ofrece regulación automática de voltaje (AVR), arranque en frío y forma de onda simulada. Está equipada con un panel LCD que proporciona datos en tiempo real sobre estado de carga, nivel de batería y alertas, permitiendo un control preciso y eficaz del Sistema.

Integra protección contra sobrecargas, cortocircuitos y sobretensiones. Ideal para oficinas, puntos de venta, CCTV y routers. También es posible conectar bancos de baterías externos para extender el respaldo.

**Tabla de Cumplimiento**

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Smart.	SmartConnect y SmartSlot incluidos	SI
1500 VA	1500 VA	SI
120V.	120V.	SI
2U rack montable	2U rack montable.	SI
Display LCD.	Panel LCD multifunción	SI
6 salidas.	6 salidas tipo NEMA 5-15R	SI



**ITEM 13: Disco duros de 8TB****Producto:** HDD, WD85PURU-64, C2EY0,8TB,5640,3.5, WD**Número de Parte:** WD85PURZ**Cantidad:** 312 Unidades**Garantía:** Tres (3) años

Este disco duro **WD Purple de 8 TB** (modelo WD85PURZ) está diseñado para sistemas de videovigilancia de alta definición que operan de manera continua (24/7). Cuenta con interfaz **SATA III (6 Gb/s)**, formato **3.5"** y una velocidad de giro de **5 640 RPM**, lo que lo convierte en una opción confiable para grabaciones ininterrumpidas. Su gran capacidad está acompañada de una memoria caché de **256 MB**, optimizando la lectura y escritura de múltiples flujos de video simultáneos.

**Tabla de Cumplimiento**

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Conector SATA	Conector SATA	SI
8 TB	8 TB	SI
Formato 3.5"	Formato 3.5"	SI
5640 RPM	5640 RPM.	SI
Cache 128MB.	Cache 128MB	SI
Para videovigilancia.	Para videovigilancia.	SI

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Propuesta de valor:



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**ITEM 14: Rollo de cables UTP Cat. 6****Producto:** LANPRO CABLE CM CAT6 AZUL 23 AWG**Número de Parte:** LP-C6010BLB**Cantidad:** 240 Unidades**Garantía:** Un (1) año

El cable **LP-C6010BLB** es un cable de categoría 6 (Cat 6) tipo U/UTP (sin blindaje) diseñado para aplicaciones de redes de alta velocidad, incluyendo Gigabit Ethernet y 100 BASE-Tx. Está clasificado como CM para uso interior (indoor) y emplea conductores de cobre sólido al 100 % junto con un núcleo de nylon Flexible-X™ que asegura la simetría de los pares y mejora la integridad de la señal.

Este cable es adecuado para sistemas de cableado estructurado, patch panels, enlaces horizontales y otras instalaciones de red donde se requieren altos estándares de desempeño eléctrico. Su certificación UL/CSA (según la hoja técnica) y su aplicación interior lo hacen una opción fiable para entornos corporativos, centros de datos pequeños o instalaciones de telecomunicaciones residenciales.

**Tabla de Cumplimiento**

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Cat. 6	Cat. 6	SI
AWG 23	23 AWG (0.565 mm)	SI
4 pair/BL	4 pair/BL	SI
100% cobre	100% cobre sólido	SI
Chaqueta CM	Chaqueta CM	SI
250hz	250hz	SI
Color azul	Color azul	SI



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Propuesta de valor:

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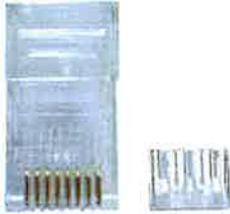
**ITEM 15: Conectores RJ-45**

**Producto:** LANPRO CONECTOR RJ45 CAT6 23-26AWG solid wired conductor

**Número de Parte:** LP-RJ458P8CC6US11

**Cantidad:** 7,200 Unidades

**Garantía:** Un (1) año



**Tabla de Cumplimiento**

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
RJ-45	RJ-45	SI
Cat. 6	Cat. 6	SI

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Propuesta de valor:





**ITEM 17: Botas de protección**

**Producto:** LANPRO BOTAS RJ45 COLOR AZUL

**Número de Parte:** LP-B101BL

**Cantidad:** 3,120 Unidades

**Garantía:** Un (1) año



**Tabla de Cumplimiento**

Funcionalidades solicitadas por EL CLIENTE	Funcionalidades ofertadas por IQtek Solutions	Cumple
Color azul	Color azul	SI
Para conectores RJ-45	Para conectores RJ-45	SI

01001100 01100101 01110100 00100111 01110011 00100000 01001101 01100001 01101011 01100101 00100000 01101001 01110100 00100000 01110111 01101111 01110010 01010111 00100001

Propuesta de valor:



## Condiciones

### Condiciones de Pago

- Veinte porcientos (20%) de avance del monto total adjudicado
- Un segundo y último pago (80%) contra la entrega de los bienes contratado, contra presentación de factura.

### Duración del Suministro

Tiempo de entrega de 12 semanas partir de la orden de compra y el avance solicitado

### Validez de la oferta

Esta propuesta tiene un plazo de mantenimiento de la oferta de 60 días hábiles contando a partir de la fecha de la apertura.

### Garantía

Indicada por ítems:

ítem 1: 72 NVR 32 Canales: **Cinco (5) años**

ítems 2: 84 NVR 16 Canales: **Cinco (5) años**

ítem 3: 2,436 Cámara Domo IP 4 MP: **Cinco (5) años**

ítem 4: 504 Cámaras Bullet IP 4 MP: **Dos (2) años**

ítem 5: 187 Cámaras Domo IP 4 K : **Cinco (5) años**

ítem 6: 192 Cámaras Fisheye 6 MP: **Cinco (5) años**

ítem 7: 84 Switch de 16 puertos: **Tres (3) años**

ítem 8: 24 Switch de 24 puertos: **Tres (3) años**

ítem 9: 48 Switch de 48 puertos: **Tres (3) años**

ítem 10: 144 Gabinetes Rack de 9U: **Dos (2) años**

ítem 11: 12 Gabinetes Rack de 7U: **Dos (2) años**

ítem 12: 156 UPS 1,500VA: **Dos (2) años en piezas y servicios y un (1) año en baterías**

ítem 13: 312 Disco duros de 8TB: **Tres (3) años**

ítem 14: 240 Rollo de cables UTP Cat. 6: **Un (1) año**

ítem 15: 7,200 Conectores RJ45: **Un (1) año**

ítem 16: 120 Jack Cat. 6: **Un (1) año**

ítem 17: 3,120 Botas de protección de RJ 45 Azul: **Un (1) año**



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Propuesta de valor:

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Franklyn Geovanny Ciprian Goodin, en Calidad de Representante Legal, debidamente autorizado para actuar en nombre y representante de **IQtek Solutions, S.R.L.**



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Firma

01001100 01100101 01101000 00100111 01110011 00100000 01001101 01100001 01101011 01100101 00100000 01101001 01101000 00100000 01101111 01101111 01100101 01101011 00100000

Propuesta de valor:



**iDS-7732NXI-M4/X**  
**DeepInMind M Series**

**Key Feature**

- Up to 2-ch@32 MP/2-ch@24 MP/4-ch@12 MP/8-ch@8 MP/16-ch@4 MP/32-ch@1080p decoding capacity
- H.265+/H.265/H.264+/H.264 video formats
- Up to 32-ch IP cameras can be connected
- Intelligent analytics based on deep learning algorithm
- Up to 24-ch perimeter protection
- Up to 16-ch facial recognition for video stream, or up to 32-ch facial recognition for face picture
- Up to 12-ch video structuralization
- Up to 8-ch IP speakers can be connected



**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

**HD Video Output**

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

**Storage and Playback**

- Up to 4 SATA interfaces for HDD connection
- Up to 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 interface
- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Smooth streaming technology
- Support web access without plug-in



▪ **Specification**

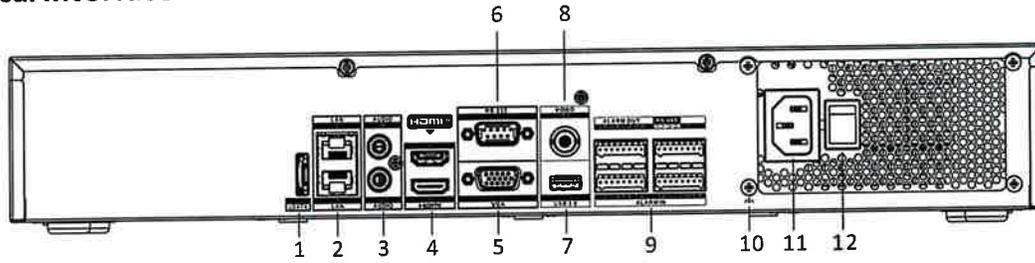
<b>Intelligent Analytics</b>	
AI by NVR	Facial recognition, perimeter protection, video structuralization, AcuSearch
AI by Camera	Facial recognition, perimeter protection, video structuralization, AcuSearch, motion detection 2.0, ANPR, people counting, VCA
Engine	2, each engine can run an intelligent algorithm, engine mode is adjustable
<b>Facial Recognition</b>	
Facial Detection and Analytics	Face picture comparison, human face capture, face picture search
Face Picture Library	Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 5,000,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB)
Face Picture Comparison (Captured from Camera)	32-ch (24-ch for each engine); Comparison speed: 48 pictures per second
Facial Detection and Analytics Performance	16-ch 2 MP (8-ch for each engine), up to 8 MP
<b>AcuSearch</b>	
By Camera	All channels, up to 691,200 targets/day The camera should enable AcuSearch function
By NVR	up to 8-ch, up to 691,200 targets/day
<b>Perimeter Protection</b>	
By NVR	perimeter protection powered by Large Model: 12-ch 2 MP or 8-ch 4MP or 4-ch 8MP perimeter protection without Large Model: 24-ch 2 MP or 16ch-4MP or 8-ch 8MP
By Camera	perimeter protection powered by Large Model with AcuSense cameras: All channels
<b>Video Structuralization</b>	
Structured Analysis	12-ch 2 MP (6-ch for each engine), up to 8 MP
Face Picture Library	Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 5,000,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB)
Face Picture Comparison	16-ch; Comparison speed: 32 pictures per second
<b>ANPR</b>	
By Camera	All channels
Vehicle Attributes	Vehicle brand, vehicle color, vehicle type
Plate Attributes	Plate number, license plate color, license plate type
<b>Video and Audio</b>	
IP Video Input	32-ch Up to 32 MP resolution
Incoming Bandwidth	320 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
HDMI 2 Output	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz *: When HDMI 1 output resolution is 8K, the maximum HDMI 2 output resolution is 1080p.



VGA Output	1920 × 1080/60Hz
Video Output Mode	HDMI1/VGA1 simultaneous output, HDMI1/HDMI2 independent output
CVBS Output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio Output	1-ch, RCA (Linear, 1 kΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 kΩ)
<b>Decoding</b>	
Decoding Format	H.265/H.265+/H.264/H.264+
Decoding Capability	2-ch@32 MP (30 fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)/32-ch@2 MP (30fps)
Synchronous Playback	16-ch
Recording Resolution	32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
<b>Network</b>	
Remote Connection	128
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF(Version 2.2), OTAP
API	ONVIF (profileS/G); SDK; ISAPI
Compatible Browser	IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version
Network Interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Camera Access Protocol	ONVIF(Version 2.5), RTSP
<b>Auxiliary Interface</b>	
SATA	4 SATA interfaces; 3.5-inch HDD
eSATA	1 eSATA interface
Capacity	Up to 16 TB capacity for each HDD
Serial Interface	1 RS-232, 1 RS-485 (full-duplex)
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
Alarm In/Out	16/4
<b>General</b>	
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	≤ 50 W (without HDD)
Working Temperature	-10 to 55°C (14 to 131° F)
Working Humidity	10 to 90%
Dimension (W × D × H)	440 × 391 × 72 mm ( 17.3" × 15.4" × 2.8")
Weight	≤ 5 kg (without HDD, 11 lb.)
<b>Certification</b>	
Obtained Certification	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS
FCC	Part 15 Subpart B, ANSI C63.4-2014
CE	EN 55032:2015+A1:2020, EN IEC61000-3-2:2019+A1:2021, EN 61000-3-2:2013+A1:2019, EN 50130-4:2011+A1:2014, EN 55035:2017+A11:2020



▪ **Physical Interface**



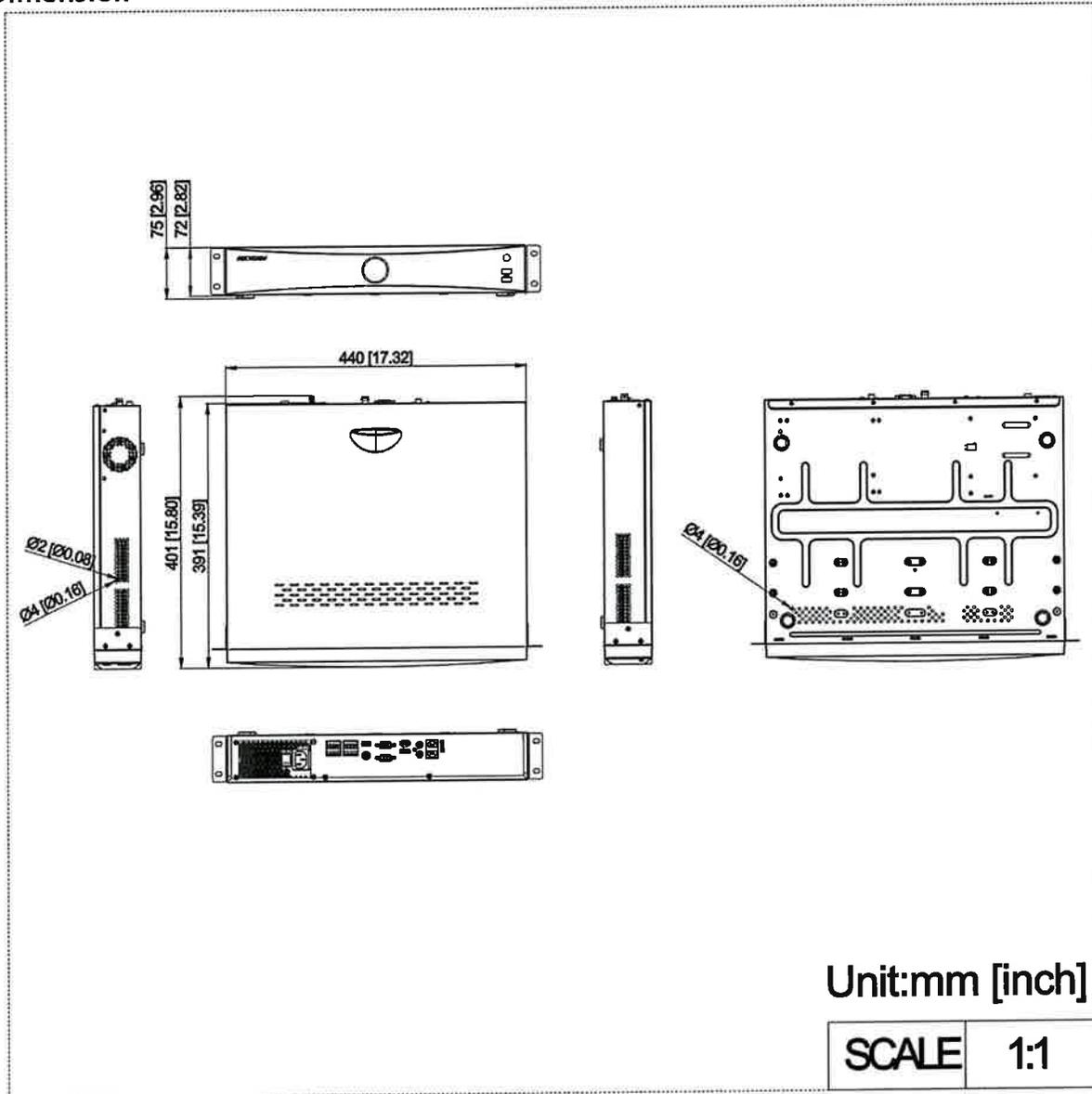
No.	Description	No.	Description
1	eSATA interface	7	USB 3.0 interface
2	LAN 1 and LAN 2 interfaces	8	CVBS video output
3	Audio in and audio out	9	Alarm in, alarm out, and RS-485
4	HDMI 1 and HDMI 2 Interfaces	10	GND
5	VGA output	11	100 to 240 VAC power supply
6	RS-232 serial interface	12	Power switch

▪ **Available Model**

iDS-7732NXI-M4/X



▪ Dimension



# See Far, Go Further



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**iDS-7716NXI-M4/X**  
**DeepInMind M Series**

**Key Feature**

- Up to 2-ch@32 MP/2-ch@24 MP/4-ch@12 MP/8-ch@8 MP/16-ch@4 MP decoding capacity
- H.265+/H.265/H.264+/H.264 video formats
- Up to 16-ch IP cameras can be connected
- Intelligent analytics based on deep learning algorithm
- Up to 16-ch perimeter protection
- Up to 16-ch facial recognition for video stream, or up to 16-ch facial recognition for face picture
- Up to 12-ch video structuralization
- Up to 8-ch IP speakers can be connected



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

**HD Video Output**

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

**Storage and Playback**

- Up to 4 SATA interfaces for HDD connection
- Up to 16-ch synchronous playback

**Smart & POS Function**

- Support multiple VCA (Video Content Analytics) events
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- Smooth streaming technology
- Support web access without plug-in



## ▪ Specification

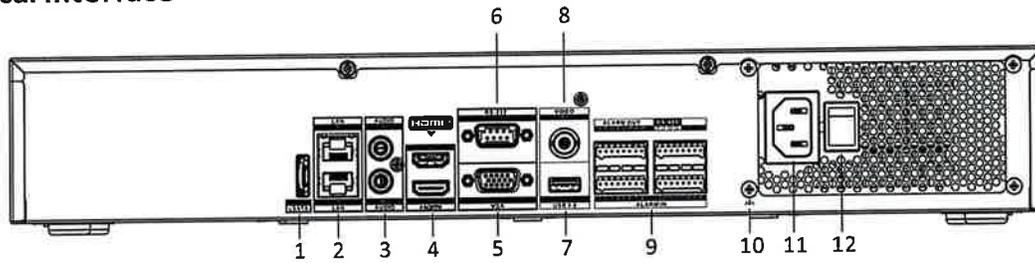
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<b>AcuSearch</b>	
By NVR	up to 8-ch, up to 691,200 targets/day
By Camera	All channels, up to 691,200 targets/day The camera should enable AcuSearch function
<b>Perimeter Protection</b>	
By NVR	perimeter protection powered by Large Model: 12-ch 2 MP or 8-ch 4MP or 4-ch 8MP perimeter protection without Large Model: 16ch-4MP or 8-ch 8MP
By Camera	perimeter protection powered by Large Model with AcuSense cameras: All channels
<b>Video Structuralization</b>	
Structured Analysis	12-ch 2 MP (6-ch for each engine), up to 8 MP
Face Picture Library	Up to 16 face picture libraries, up to 100,000 face pictures in list library, up to 10,000 face pictures in stranger library, up to 5,000,000 face pictures in face capture (each picture ≤ 4 MB, total capacity ≤ 20 GB)
Face Picture Comparison	16-ch; Comparison speed: 32 pictures per second
<b>ANPR</b>	
By Camera	All channels
Plate Attributes	Plate number, license plate color, license plate type
Vehicle Attributes	Vehicle brand, vehicle color, vehicle type
<b>Video and Audio</b>	
IP Video Input	16-ch Up to 32 MP resolution
Incoming Bandwidth	256 Mbps
Outgoing Bandwidth	256 Mbps
HDMI 1 Output	8K (7680 × 4320)/30Hz, 4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz
HDMI 2 Output	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz *: When HDMI 1 output resolution is 8K, the maximum HDMI 2 output resolution is 1080p.



VGA Output	1920 × 1080/60Hz
Video Output Mode	HDMI1/VGA1 simultaneous output, HDMI1/HDMI2 independent output
CVBS Output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio Output	1-ch, RCA (Linear, 1 kΩ)
Two-Way Audio	1-ch, RCA (2.0 Vp-p, 1 kΩ)
<b>Decoding</b>	
Decoding Format	H.265/H.265+/H.264/H.264+
Decoding Capability	2-ch@32 MP (30 fps)/2-ch@24 MP (30fps)/4-ch@16 MP (30fps)/8-ch@8 MP (30fps)/16-ch@4 MP (30fps)
Synchronous Playback	16-ch
Recording Resolution	32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/ 2CIF/CIF/QCIF
<b>Network</b>	
Remote Connection	128
Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS, ONVIF(Version 2.2), OTAP
API	ONVIF (profileS/G); SDK; ISAPI
Compatible Browser	IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version
Network Interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Camera Access Protocol	ONVIF(Version 2.5), RTSP
<b>Auxiliary Interface</b>	
SATA	4 SATA interfaces; 3.5-inch HDD
eSATA	1 eSATA interface
Capacity	Up to 16 TB capacity for each HDD
Serial Interface	1 RS-232, 1 RS-485 (full-duplex)
USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
Alarm In/Out	16/4
<b>General</b>	
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	≤ 50 W (without HDD)
Working Temperature	-10 to 55°C (14 to 131° F)
Working Humidity	10 to 90%
Dimension (W × D × H)	440 × 391 × 72 mm ( 17.3" × 15.4" × 2.8")
Weight	≤ 5 kg (without HDD, 11 lb.)
<b>Certification</b>	
Obtained Certification	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS
FCC	Part 15 Subpart B, ANSI C63.4-2014
CE	EN 55032:2015+A1:2020, ENIEC61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019, EN 50130-4:2011+A1:2014, EN 55035:2017+A11:2020



▪ **Physical Interface**



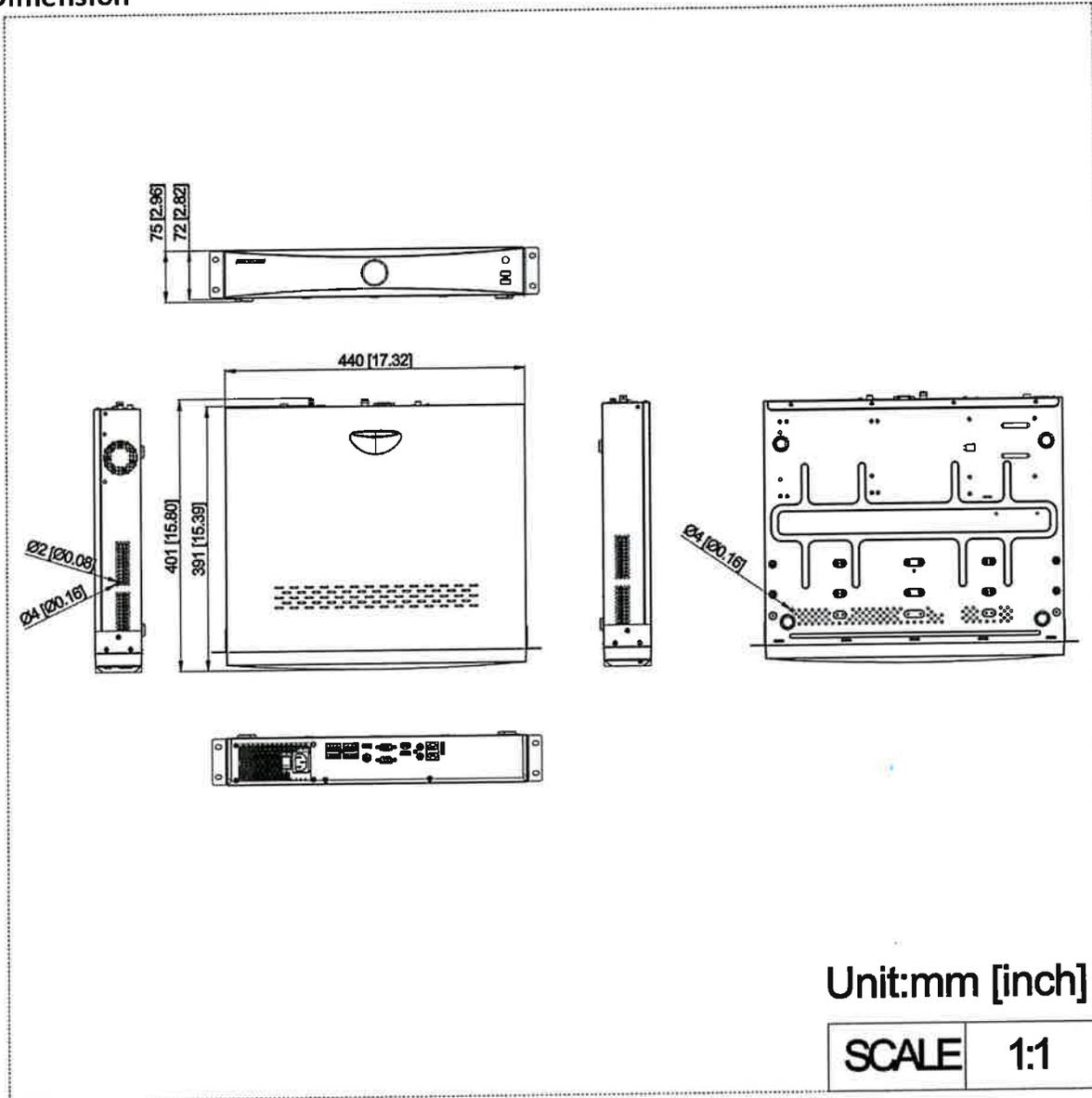
No.	Description	No.	Description
1	eSATA interface	7	USB 3.0 interface
2	LAN 1 and LAN 2 interfaces	8	CVBS video output
3	Audio in and audio out	9	Alarm in, alarm out, and RS-485
4	HDMI 1 and HDMI 2 Interfaces	10	GND
5	VGA output	11	100 to 240 VAC power supply
6	RS-232 serial interface	12	Power switch

▪ **Available Model**

iDS-7716NXI-M4/X



▪ Dimension



# See Far, Go Further



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**DS-2CD3146G2-IS(U)**  
**4 MP AcuSense IR Fixed Dome 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.

Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- Supports Hikvision Embedded Open Platform (HEOP) and importing third party applications
- Supports 1.5 Tops computing power, 60 MB system memory, 400 MB smart RAM, and 2 GB eMMC storage for sharing resources
- High quality imaging with 4 MP resolution
- Excellent low-light performance with powered-by-DarkFighter technology
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to 140 dB true WDR technology
- Focus on human and vehicle target classification based on deep learning
- Water and dust resistant (IP67) and vandal-resistant (IK10)



## - Specification

<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Min. Illumination	Color: 0.003 Lux @ (F1.4, 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 355°, tilt: 0° to 75°, rotate: 0° to 355°
<b>Lens</b>	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional 2.8 mm, horizontal FOV 101°, vertical FOV 54°, diagonal FOV 122°
Focal Length & FOV	4 mm, horizontal FOV 84°, vertical FOV 45°, diagonal FOV 99° 6 mm, horizontal FOV 53°, vertical FOV 28°, diagonal FOV 64°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.4
<b>DORI</b>	
DORI	2.8 mm: D: 63 m, O: 25 m, R: 12 m, I: 6 m 4 mm: D: 77 m, O: 30 m, R: 15 m, I: 7 m 6 mm: D: 126 m, O: 50 m, R: 25 m, I: 12 m
<b>Illuminator</b>	
Supplement Light Type	IR
Supplement Light Range	Up to 50 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
<b>HEOP</b>	
Open Resources	Memory: 60 MB, Smart RAM: 400 MB, eMMC: 2 GB
Computing Power	1.5 TOPS
Open Capability	HEOP 2.0 OpendevSDK
Deep Learning Structure	Caffe, PyTorch, TensorFlow, PaddlePaddle, ONNX
Programming Language	C, C++
<b>Video</b>	
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 1920 × 1080 50fps
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360) 1920 × 1080 20fps
Target Cropping	Yes
Video Compression	Main stream: H.265/H.264/H.264+/H.265+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG



Video Bit Rate	32 Kbps to 8 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)	5 fixed regions for main stream and sub-stream
EIS	Yes
<b>Audio</b>	
Audio Bit Rate	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	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Environment Noise Filtering	Yes
<b>Network</b>	
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, SFTP, ARP, SNMP, WebSocket, WebSockets, SRTP
Simultaneous Live View	Up to 6 channels
API	ONVIF (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 Plug-in required live view: IE 10, IE 11,
Web Browser	Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
<b>Image</b>	
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)	140 dB
Image Enhancement	BLC, HLC, 3D DNR, Defog
SNR	≥ 52 dB
Privacy Mask	4 programmable polygon privacy masks
<b>Interface</b>	
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



Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium, 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)
Built-in Microphone	-U: Yes
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
<b>Event</b>	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception scene change detection,audio exception detection,defocus detection, unattended
Smart Event	baggage detection,object removal detection,Loitering Detection,People Gathering Detection,Fast Moving Detection,Parking Detection
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning
<b>Deep Learning Function</b>	
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
Face Capture	Yes( gets face features)
People Counting	Yes
Heat Map	Yes
Metadata	Intrusion detection,line crossing detection,region entrance detection,region exiting detection
<b>General</b>	
Power	12 VDC $\pm$ 25%, 0.62 A, max. 7.5 W, $\varnothing$ 5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 9 W
Dimension	$\varnothing$ 121.5 mm $\times$ 97.6 mm ( $\varnothing$ 4.8" $\times$ 3.8")
Package Dimension	150 mm $\times$ 150 mm $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.6")
Weight	Approx. 500 g (1.1 lb.)
With Package Weight	Approx. 700 g (1.54 lb.)
Storage Conditions	-30 $^{\circ}$ C to 60 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 $^{\circ}$ C to 65 $^{\circ}$ C (-22 $^{\circ}$ F to 140 $^{\circ}$ F). Humidity 95% or less (non-condensing)
General Function	Heartbeat,anti-banding,mirror,flash log,password reset via email,pixel counter
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
<b>Approval</b>	
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, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015



Safety	UL: UL 62368-1, CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005, 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

### ▪ 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.

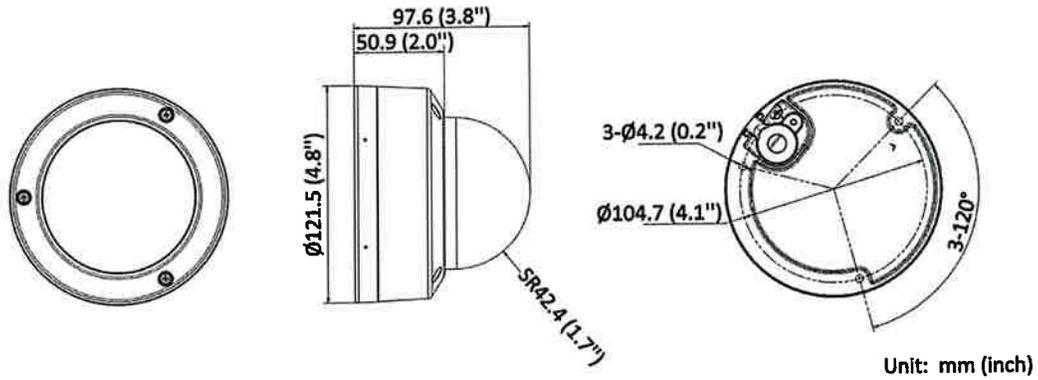
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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-2CD3146G2-IS(2.8mm)(H)
- DS-2CD3146G2-IS(4mm)(H)
- DS-2CD3146G2-IS(6mm)(H)
- DS-2CD3146G2-ISU(2.8mm)(H)
- DS-2CD3146G2-ISU(4mm)(H)
- DS-2CD3146G2-ISU(6mm)(H)



▪ Dimension



▪ Accessory

▪ Optional

DS-1272ZJ-120 Wall mount	DS-1272ZJ-120B Wall mount	DS-1271ZJ-120 Pendant Mount	DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount
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DS-1280ZJ-DM46 Junction box	DS-2280ZJ-WA120 Junction box	DS-2210ZJ-WA-120 Pendant Mount	DS-2200ZJ-WA-120 Wall mount	DS-2200ZJ-WAJ-120 Wall mount
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## DS-2CD2043G2-I(U) 4MP AcuSense Fixed Bullet Network Camera

### AcuSense



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
- Clear imaging against strong backlight due to 120 dB WDR technology
- Efficient H.265+ compression technology
- -U: Built-in microphone for real-time audio security
- Water and dust resistant (IP67)
- Focus on human and vehicle targets classification based on deep learning



[www.hikvision.com](http://www.hikvision.com)



## ▪ Specification

<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Day & Night	ICR Cut
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
<b>Lens</b>	
Lens Type & FOV	2.8 mm, horizontal FOV 103°, vertical FOV 55°, diagonal FOV 122° 4 mm, horizontal FOV 84°, vertical FOV 45°, diagonal FOV 100° 6 mm, horizontal FOV 52°, vertical FOV 28°, diagonal FOV 61°
Aperture	F1.6
Lens Mount	M12
<b>DORI</b>	
DORI	2.8 mm: D: 67 m, O: 26 m, R: 13 m, I: 6 m 4 mm: D: 80 m, O: 31 m, R: 16 m, I: 8 m 6 mm: D: 120 m, O: 47,m, R: 24,m, I: 12 m
<b>Illuminator</b>	
IR Range	Up to 40 m
Wavelength	850 nm
<b>Video</b>	
Max. Resolution	2688 × 1520
Main Stream	50Hz: 25fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60Hz: 30fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub Stream	50Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360) 60Hz: 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)
Video Compression	Main stream: H.265/H.264/H.264+/H.265+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264
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)	Yes
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
<b>Audio</b>	
Environment Noise Filtering	-U: Yes
Audio Sampling Rate	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz



Audio Compression	-U: G.711ulaw/G.711alaw/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)/16-64 Kbps (AAC-LC)
<b>Network</b>	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, 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)
Client	iVMS-4200, Hik-Connect, Hik-Central Plug-in required live view: IE 10, IE 11
Web Browser	Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
<b>Interface</b>	
Built-in Microphone	-U: Yes
On-board Storage	Built-in microSD, up to 512 GB
Hardware Reset	Yes
Communication Interface	1 RJ45 10M/100M self-adaptive Ethernet port
<b>Event</b>	
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Face Detection	Yes
<b>Deep Learning Function</b>	
Perimeter Protection	Line crossing detection, intrusion detection Supports human and vehicle targets classification
<b>General</b>	
Linkage Method	Upload to FTP/memory card/NAS, notify surveillance center, trigger record, trigger capture
Web Client 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, password reset via e-mail, pixel counter
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, 36 V to 57 V), Class 3
Power Consumption and Current	12 VDC, 0.5 A, max. 6 W PoE (802.3af, 36 V to 57 V), 0.2 A to 0.13 A, max. 7 W
Power Interface	Ø5.5 mm coaxial power plug
Camera Dimension	Ø70 × 161.7 mm (Ø2.76" × 6.37")
Package Dimension	216 × 121 × 118 mm (8.6" × 4.8" × 4.7")
Camera Weight	Approx. 490 g (1.1 lb.)
With Package Weight	Approx. 724 g (1.6 lb.)
<b>Approval</b>	
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); IC (ICES-003: Issue 6, 2016); 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); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
Environment Protection	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) IP67 (IEC 60529-2013)

### ▪ Available Model

- DS-2CD2043G2-I (2.8/4/6 mm)
- DS-2CD2043G2-IU (2.8/4/6 mm)

### ▪ Typical Application

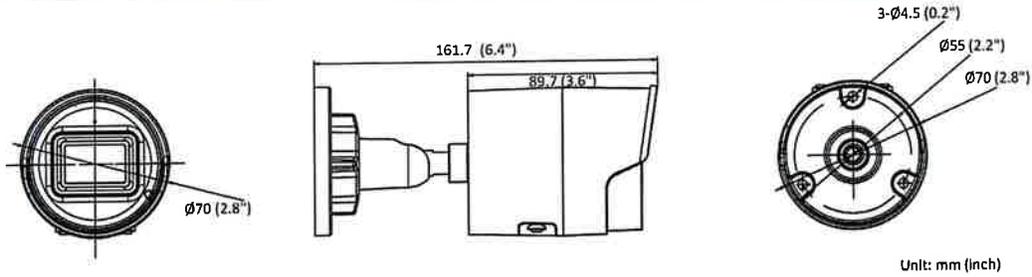
Hikvision products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

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.

### ▪ Dimension





Unit: mm (inch)

- Accessory
- Optional

**DS-1280ZJ-XS**  
**Junction Box**



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Distributed by



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**IDS-2CD7586G2-XZHS(Y)**  
**8MP DeepinView PTRZ Moto Varifocal Dome Camera**

DeepinView<sup>series</sup>

DarkFighter<sup>2.0</sup>



Hikvision has been dedicated to develop products with security since established. Hikvision always follows security by design principle and has adopted many methods of security technologies into our product development lifecycle, including terminal security, data security, application security, network security, and privacy protection. In the meantime, the security technologies used by Hikvision are all in compliance with local applicable laws and safety regulations. These security measures could enhance product's cyber security protection capability and protect your devices as well as your data from malicious cyber attacks.

- High quality imaging with 8 MP resolution
- Excellent low-light performance via DarkFighter 2.0 technology
- Clear imaging against strong back light due to 140 dB AWDR technology
- Efficient H.265+ compression technology to save bandwidth and storage
- 5 streams to meet a wide variety of applications
- Water and dust resistant (IP67), vandal proof (IK10) and corrosion resistant (NEMA 4X, optional)
- Capture vehicles and humans of different speed clearly via ShotN technology
- High frame rate, up to 8MP@60fps and 2MP@120fps
- Built-in G-sensor for vibration detection
- Built-in power meter for historical power statistics
- Unique PTRZ capability for efficient installation and configuration



## ▪ Function

### Face Capture

With embedded deep learning based algorithms, the camera is able to give the best shot of a target face through detecting, capturing, grading and selecting. The camera uses face exposure function to dynamically adjust face area exposure of captures and ensures high face picture quality.

### Perimeter Protection

With embedded deep learning based target detection and classification algorithms, the camera carries out the duty of perimeter protection, monitoring the actions of line crossing, intrusion, region entrance, and region exiting. The algorithms greatly filter out the mistaken alarm caused by the interference of leaves, lights, animal, flag, etc.

### Multi-Target-Type Detection

With the embedded deep learning algorithms, the camera detects and captures the face, human body, vehicle in the specified region.

### Queue Management

With embedded deep learning based algorithms, the camera detects queuing-up people number and waiting time of each person. It can generate reports to compare the efficiency of different queuing-ups and display the changing status of one queue, and supports raw data export for further analysis.

### Regional People Counting

With the embedded deep learning algorithms, the camera supports people density detection and will upload detection data through scheduled uploading, number of people change uploading and congestion level uploading. It also supports number of people exception detection and waiting time exception detection.

### On/Off Duty Detection

With the embedded deep learning algorithms, the camera supports absence detection and on/off duty detection. It can detect the on/off duty status and people number changes in a predefined area.

### Heat Map

The camera can generate a graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.

### Multi-Dimension People Counting

With the embedded deep learning algorithms, the camera integrates multiple intelligences. It counts persons and compares them with the built-in face picture library to remove duplicates. It counts persons and reports an alarm simultaneously to achieve both the entrance control and people counting.

### Hard Hat Detection

With the embedded deep learning algorithms, the camera detects the persons in the specified region. It detects whether the person is wearing a hard hat, and reports an alarm if not.



▪ **Specification**

<b>Camera</b>	
Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
Min. Illumination	Color: 0.0005 Lux @ (F1.2, AGC ON), B/W: 0.0001 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter, Blue glass module (less ghost phenomenon)
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 85°, rotate: 0° to 355°
<b>Lens</b>	
Focal Length & FOV	2.8 to 12 mm, horizontal FOV 112.3° to 41.2°, vertical FOV 58.1° to 23.1°, diagonal FOV 137.4° to 47.3° 8 to 32 mm, horizontal FOV 41.8° to 15°, vertical FOV 22.9° to 8.5°, diagonal FOV 48.7° to 17.1°
Lens Type	Varifocal lens, motorized lens, 2.8 to 12 mm and 8 to 32 mm optional
Focus	Auto, Semi-auto, Manual
Iris Type	P-iris
Aperture	2.8 to 12 mm: F1.47 to F2.53, 8 to 32 mm: F1.7 to F1.73
<b>DORI</b>	
DORI	2.8 to 12 mm: D (Detect): 220.0 m, O (Observe): 87.3 m, R (Recognize): 44.0 m, I (Identify): 22.0 m 8 to 32 mm: D (Detect): 580.0 m, O (Observe): 230.2 m, R (Recognize): 116.0 m, I (Identify): 58.0 m The DORI values are calculated using pixel densities for different use cases as recommended by the EN 62676-4 standard.
<b>Illuminator</b>	
Supplement Light Type	IR, White Light
Supplement Light Range	2.8 to 12 mm: Monitoring: 40 m; 8 to 32 mm: Monitoring: 60 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
<b>AI Open Platform</b>	
Model Specification	Up to 4 models, Model type: detection model, classification model, mixed model (detection model and classification model)
<b>Video</b>	
Main Stream	Monitoring mode: 50 Hz: up to 50 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1280 × 720), up to 100 fps (1920 × 1080) 60 Hz: up to 60 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1280 × 720), up to 120 fps (1920 × 1080) *High frame rate is supported under monitoring mode only. smart mode: 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2688 × 1520, 1920 × 1080, 1280 × 720)



Sub-Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480)
Fourth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
Fifth Stream	50 Hz: 25 fps (704 × 576, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480)
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, Fourth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG
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)	4 fixed regions for each stream
Target Cropping	Yes
e-PTZ	Support Patrol and Auto Tracking settings
<b>Audio</b>	
Audio Type	Mono sound
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC
Audio Bit Rate	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	8 kHz/16 kHz/32 kHz/48 kHz
Environment Noise Filtering	Yes
<b>Network</b>	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, SRTP, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, ARP, WebSocket, WebSockets
Simultaneous Live View	Up to 20 channels
API	ISAPI, SDK, ISUP, OTAP, ONVIF (Profile S, Profile G, Profile T, Profile M)
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 1.2, TLS 1.3, TPM 2.0 (FIPS 140-2 level 2), AES128/256
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+, Safari 11+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+
<b>Image</b>	
Image Parameters Switch	Yes
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,white balance,AGC,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule,Alarm Trigger
Wide Dynamic Range (WDR)	140 dB
Image Enhancement	BLC,HLC,3D DNR,Distortion Correction,Defog
Privacy Mask	8 programmable polygon privacy masks
SNR	≥ 52 dB
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24 bit bmp format.
Image Stabilization	EIS
<b>Interface</b>	
Video Output	1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)
Ethernet Interface	1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 1 TB
Built-in Microphone	2 built-in microphones
Alarm	2 inputs, 2 outputs (max. 24 VDC/24 VAC, 1 A)
Audio	1 input (line in), 3.5 mm connector, three-contact, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, three-contact, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium, mono sound
Built-in Speaker	1 built-in speaker
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	Yes
Power Output	12 VDC, max. 100 mA
<b>Event</b>	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,video quality diagnosis,exception (network disconnected, IP address conflict, illegal login, abnormal restart, HDD full, HDD error),vibration detection
Smart Event	scene change detection,audio exception detection,defocus detection
Linkage	Upload to FTP/NAS/memory card,notify surveillance center,send email,trigger alarm output,trigger recording,trigger capture,audible warning
<b>Deep Learning Function</b>	
Multi-target-type Detection	Supports simultaneous detection and capture of human body, face, and vehicle, Gets 7 face features, Gets 13 human body features, Gets 2 vehicle features, Supports counting the number of line crossing targets by type, including human body, non-motor vehicle, motor vehicle, Supports dynamic mosaic mask



Face Capture	<p>Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame simultaneously and uploads up to 10 face pictures per second,</p> <p>Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°,</p> <p>Uploads face with background and closed-up face pictures,</p> <p>Supports best shot and quick shot for capture mode,</p> <p>Supports dynamic mosaic mask,</p> <p>Gets 7 face features</p>
Face Comparison	<p>Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total,</p> <p>Supports facelibrary encryption</p>
People Counting	<p>Supports Multi-Dimension People Counting,</p> <p>Supports counting, displaying and exporting the people flow data of entering, exiting and passing by (The data is stored in the flash.),</p> <p>Supports real-time uploading and uploading by statistic cycle,</p> <p>Supports generating daily, weekly, monthly or annually reports,</p> <p>Supports dynamic deduplication based on face picture comparison, and can filter out the target with the same custom face pictures, same attributes, or filter out repeated invalid targets within the set time interval,</p> <p>Supports face feature deduplication,</p> <p>Supports people flow data replenishment</p> <p>Supports up to 8 detection regions, and independent arming schedule and linkage method</p>
Queue Management	<p>Supports 2 detection modes: regional people queuing-up, waiting time detection</p> <p>Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue</p> <p>Supports raw data export for further analysis</p> <p>Supports real-time data uploading and scheduled data uploading</p> <p>Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold</p> <p>Waiting time detection: supports 1 alarm trigger condition, including greater than threshold</p>
Heat Map	<p>A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.,</p> <p>Two report types are available, space heat map and time heat map line chart.</p>
Perimeter Protection	<p>Line crossing, intrusion, region entrance, region exiting</p> <p>Support alarm triggering by specified target types (human and vehicle)</p> <p>Support combined event alarm triggering</p>
Hard Hat Detection	<p>Detects up to 30 human targets simultaneously</p> <p>Supports up to 4 shield regions</p>
Metadata	<p>Intrusion detection, line crossing detection, region entrance detection, region exiting detection, face capture, multi-target-type detection</p>



Regional People Counting	<p>Supports up to 8 detection regions, and independent arming schedule and linkage method</p> <p>Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection</p> <p>Supports parameter settings: alarm times per exception, alarm interval, first alarm delay</p> <p>Supports searching real-time number of people</p> <p>People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading</p> <p>Number of people exception detection: supports 6 alarm trigger conditions, including greater than threshold A, less than threshold A, equal to threshold A, not equal to threshold A, greater than threshold A and less than threshold B, less than threshold A or greater than threshold B (threshold A should be less than threshold B)</p> <p>Waiting time exception detection: supports 3 alarm trigger conditions, including greater than threshold A, less than threshold A, greater than threshold A and less than threshold B (threshold A should be less than threshold B)</p>
On/Off Duty Detection	<p>Supports up to 8 detection regions, and independent arming schedule and linkage method</p> <p>Supports 2 detection modes: absence detection, on/off duty detection</p> <p>Supports parameter settings: person on duty, absence duration</p>

**General**

Power	<p>12 VDC ± 20%, 2 A, max. 24 W, two-core terminal block, PoE: IEEE 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.57 A to 0.42 A, max. 24 W</p>
Material	<p>Aluminum alloy body</p>
Dimension	<p>Ø155 mm × 140.4 mm (Ø6.10" × 5.53")</p>
Package Dimension	<p>206 mm × 206 mm × 230 mm (8.12" × 8.12" × 9.06")</p>
Weight	<p>Approx. 1300 g (2.87 lb.)</p>
With Package Weight	<p>Approx. 1980 g (4.37 lb.)</p>
Storage Conditions	<p>-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)</p>
Startup and Operating Conditions	<p>-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)</p>
Language	<p>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</p>
General Function	<p>Heartbeat, anti-banding, one-key reset, mirror, password protection, flash log</p>
Heater	<p>Yes</p>
Device Management	<p>Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces</p>

**Approval**

EMC	<p>CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015</p>
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Safety	CB: IEC 62368-1:2014+A11, CE-LVD: EN 62368-1:2014/A11:2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1:2005, 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
Anti-Corrosion Protection	-Y: NEMA 4X (NEMA 250-2018)
Other	PVC FREE

## ▪ 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.

With -Y model: This model has MODERATE PROTECTION.

Without -Y model: This model has NO SPECIFIC PROTECTION.

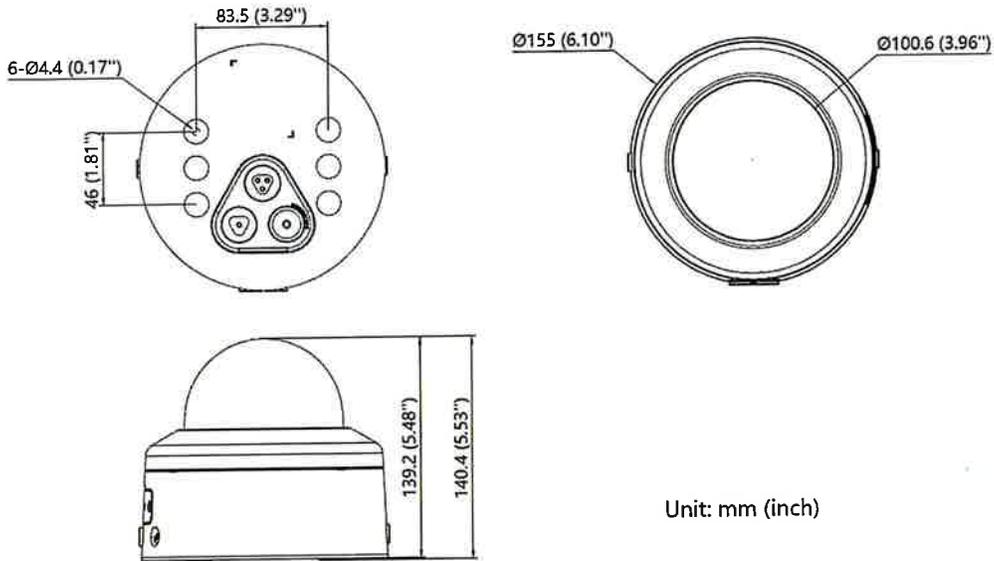
Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are equipped 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

- iDS-2CD7586G2-XZHSY(2.8-12mm)
- iDS-2CD7586G2-XZHSY(8-32mm)
- iDS-2CD7586G2-XZHS(2.8-12mm)
- iDS-2CD7586G2-XZHS(8-32mm)

▪ Dimension



Unit: mm (inch)

▪ Accessory

▪ Optional

DS-1473ZJ-155	DS-1471ZJ-155	DS-1475ZJ-SUS	DS-1476ZJ-SUS	DS-1475ZJ-Y
DS-1476ZJ-Y	DS-1471ZJ-155-Y	DS-1473ZJ-155-Y		

\*Anti-corrosion cameras (-Y models) are recommended to be used with anti-corrosion brackets (-Y bracket models).



# See Far, Go Further



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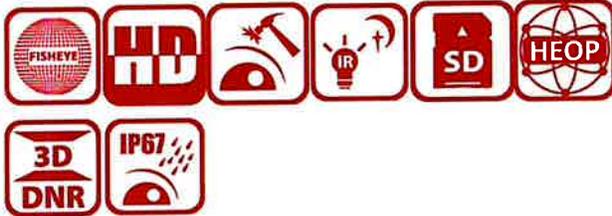


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DS-2CD6365G1-IVS  
6 MP DeepinView IR Network Fisheye Camera

DeepinView<sup>series</sup>



DS-2CD6365G1-IVS is a fisheye network camera capable of providing a 360-degree panoramic image of its scene. The progressive scan CMOS sensor provides high-resolution images of up to 2560 × 2560. Up to 20 live view display modes, designed for 3 mount types, meet various user preferences. Three independently controlled IR lights offer a range of 15 m and provide good vision in low or even zero-light environment.

- Heatmap: based on deep learning algorithms, the camera counts people and presents an intuitive map
- Multi dewarping modes: the image can be dewarped to normal image for viewing intuitively
- Built-in mic and speaker: the camera supports two-way audio for real-time audio security monitoring and communication
- Built-in IR light: an IR range of 15 meters provides good visibility in low or even zero-light environments
- High resolution 6 MP: capturing clear images even when dewarped into 4-image PTZ mode
- Each image is clear and detailed
- Water and dust resistant (IP67) and vandal resistant (IK10)



▪ **Specification**

**Camera**

Image Sensor	1/1.8" Progressive Scan CMOS
Max. Resolution	2560 × 2560
Min. Illumination	Color: 0.01 Lux @ (F2.25, AGC ON),B/W: 0.005 Lux @ (F2.25, AGC ON),B/W: 0 Lux with IR
Shutter Time	1 s to 1/100,000 s
Day & Night	IR cut filter

**Lens**

Lens Type	Fixed focal lens, 1.16 mm
Focal Length & FOV	1.16 mm, horizontal FOV 180°, vertical FOV 180°
Iris Type	Fixed
Aperture	F2.25
Depth of Field	0.2 m to ∞

**DORI**

	D: 23.2 m
	O: 9.2 m
DORI	R: 4.6 m
	I: 2.3 m

**Illuminator**

Supplement Light Type	IR
Supplement Light Range	Up to 15 m
Supplement Light Number	3
Smart Supplement Light	Yes
IR Wavelength	850 nm

**HEOP**

Open Resources	Memory: 60 MB, Smart RAM: 800 MB, eMMC: 2 GB
Computing Power	2 TOPS
Open Capability	HEOP 2.0 OpendevSDK
Deep Learning Structure	Caffe, TensorFlow, PyTorch
Programming Language	C, C++



**Video**

Main Stream	<p>50 Hz: 25 fps/60 Hz: 30 fps:          Fisheye View:          2560 × 2560, 2048 × 2048, 1280 × 1280          180 Panorama View:          2048 × 1536, 1920 × 1440          180 Dual Channel Panorama View:          2048 × 768, 1920 × 720          Panorama View:          2048 × 1536, 1920 × 1440          4PTZ View:          camera 01/camera 02/camera 03/camera 04: 1024 × 768          Fisheye + 3PTZ View:          camera 01: 2048 × 2048, 1024 × 1024          camera 02/camera 03/camera 04: 1024 × 768          4PTZ Fusion View:          2048 × 1536, 1600 × 1200          50 Hz: 25 fps/60 Hz: 30 fps:          Fisheye View:          720 × 720, 480 × 480          180 Panorama View:          640 × 480, 320 × 240          180 Dual Channel Panorama View:          640 × 480, 320 × 240          Panorama View:          640 × 360, 320 × 240          4PTZ View:          camera 01/camera 02/camera 03/camera 04: 640 × 480, 320 × 240          Fisheye + 3PTZ View:          camera 01: 720 × 720          camera 02/camera 03/camera 04: 640 × 480, 320 × 240          Main stream: H.265+/H.265/H.264+/ H.264,          Sub-stream: H.265/H.264/MJPEG</p>
Sub-Stream	<p>32 Kbps to 16 Mbps          Baseline Profile,Main Profile,High Profile          Main Profile          CBR,VBR          H.264 and H.265 encoding          4 fixed regions for each stream</p>
Video Compression	
Video Bit Rate	
H.264 Type	
H.265 Type	
Bit Rate Control	
Scalable Video Coding (SVC)	
Region of Interest (ROI)	
<b>Fisheye Display</b>	
Mount Type	Support wall/table/ceiling mounting
Decoding Mode	Support hardware decoding and software decoding



20 display modes in total,  
 Software decoding: 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 + 8PTZ, hemisphere, AR hemisphere, cylinder,  
 Hardware decoding: fisheye view, 180 panorama view, 180 dual channel panorama, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion

## Audio

Audio Compression G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC  
 Audio Bit Rate 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 8 kHz/16 kHz/32 kHz/48 kHz  
 Environment Noise Filtering Yes

## Network

Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, ISUP, ARP, WebSocket, WebSockets, SIP  
 Simultaneous Live View Up to 20 channels  
 API Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,SDK,ISUP, Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX  
 User/Host Up to 32 users  
 Security 3 user levels: administrator, operator, and user  
 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 1.2, 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,iVMS-4500,iVMS-5200,Hik-Connect  
 Web Browser Plug-in required live view: IE 10, IE 11,  
 Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Safari 11+,  
 Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+

## Image

Image Parameters Switch Yes  
 Image Settings saturation,brightness,contrast,sharpness,white balance,AGC,adjustable by client software or web browser  
 Day/Night Switch Day,Night,Auto,Schedule,Alarm Trigger  
 Wide Dynamic Range (WDR) 120 dB  
 Image Enhancement BLC,HLC,3D DNR,Distortion Correction,Defog  
 Privacy Mask 8 programmable polygon privacy masks  
 Picture Overlay LOGO picture can be overlaid on video with 128 x 128 24 bit bmp format

## Interface

Ethernet Interface 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port  
 On-Board Storage Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 256GB



Built-in Microphone	Yes, 4 built-in microphones
Built-in Speaker	Yes, 1 built-in speaker
Audio	1 input (line in), 3.5 mm connector, max. input amplitude: 3.3 Vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium
Alarm	2 inputs, 2 outputs (max. 24 VDC, 1 A)
RS-485	1 RS-485 (Half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)
Reset Key	1 Reset Key

**Event**

Basic Event	Motion detection, video tampering alarm, alarm input and output, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
Smart Event	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, scene change detection, audio exception detection, defocus detection, unattended baggage detection, object removal detection
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture

**Deep Learning Function**

People Counting	Counts people entering, exiting and passing by separately (The data is stored in the flash.) Supports real-time uploading and uploading by statistic cycle Sends email reports on daily, weekly, monthly or annually basis Supports up to 3 detection regions, and independent arming schedule and linkage method Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: regional people queuing-up, waiting time detection Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue
Queue Management	Supports raw data export for further analysis Supports real-time data uploading and scheduled data uploading Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold Waiting time detection: supports 1 alarm trigger condition, including greater than threshold
Heat Map	A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area., Two report types are available, space heat map and time heat map line chart.
Intersection Analysis	Detects and analyze flow in an intersection-like scene, and generate reports Support one intersection of up to 10 ways

**General**

Power	12 VDC $\pm$ 20%, 1 A, max. 11.5 W, two-core terminal block, PoE: IEEE 802.3af, Class 3, max. 12.5 W
Material	Metal
Dimension	$\phi$ 140.3 mm $\times$ 59.4 mm ( $\phi$ 5.5" $\times$ 2.3")
Package Dimension	260 mm $\times$ 230 mm $\times$ 135 mm (10.2" $\times$ 9.1" $\times$ 5.3")



Weight	Approx. 715 g (1.58 lb.)
With Package Weight	Approx. 1206 g (2.66 lb.)
Storage Conditions	-40 °C to 60 °C (-40 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-40 °C to 60 °C (-40 °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, flash log, password reset via email, password protection, one-key reset, anti-banding
Heater	Yes
Cable Length	0.31 m (1.02 ft.)

<b>Approval</b>	
EMC	CE-EMC: EN 55032:2015+A1:2020, EN 50130-4:2011+A1:2014, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, EN 50121-4:2016+A1:2019, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7, KC: KN32: 2015, KN35: 2015 UL: UL 62368-1,
Safety	CB: IEC 62368-1: 2014+A11, CE-LVD: EN 62368-1: 2014/A11: 2017, BIS: IS 13252 (Part 1): 2010/IEC 60950-1: 2005 CE-RoHS: 2011/65/EU,
Environment	WEEE: 2012/19/EU, Reach: Regulation (EC) No 1907/2006
Protection	IP67: IEC 60529-2013, IK10: IEC 62262:2002

### ▪ 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 1.24 kilometers (1.24 miles) away from coastlines, as well as areas affected by acid rain.

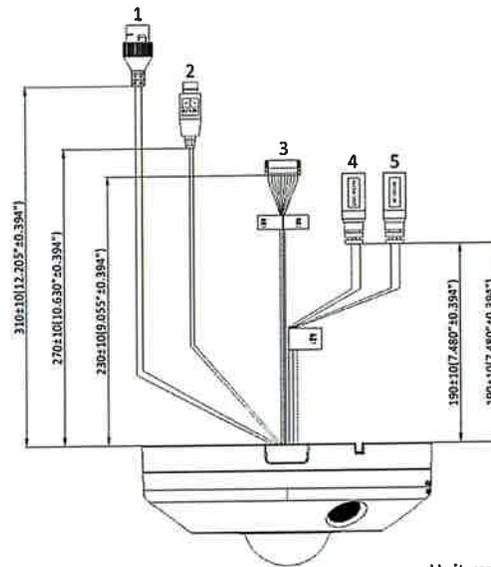


No specific protection

Hikvision products at this level are equipped for use in areas where no specific anti-corrosion protection is needed.

## Physical Interface

No.	Interface Description
1	Network Interface
2	Power Interface
3	Alarm Interface, RS-485
4	Audio Output Interface
5	Audio Input Interface



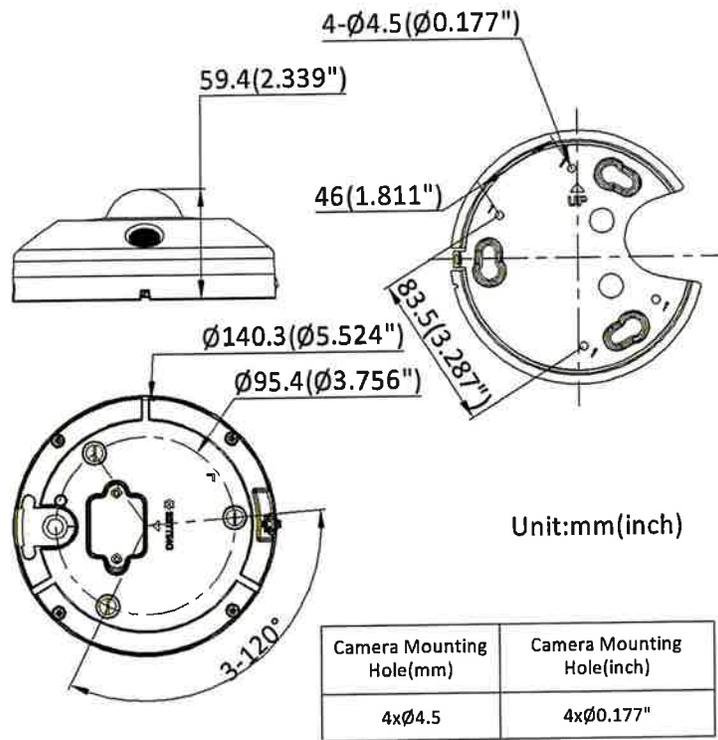
Unit:mm(inch)

## Available Model

DS-2CD6365G1-IVS(1.16mm)



▪ Dimension



▪ Accessory

▪ Optional

DS-1273ZJ-140 Wall mount	DS-1273ZJ-140B Wall mount	DS-1271ZJ-140 Pendant Mount	DS-1275ZJ-SUS Vertical pole mount	DS-1276ZJ-SUS Corner mount



DS-2280ZJ-WA140  
Junction box



*\*It is recommended to use DS-1276ZJ-SUS and DS-1275ZJ-SUS with DS-1273ZJ-140 or DS-1273ZJ-140B.*



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**DS-3E1520HP-SI-16P2T2F**  
**Smart Gigabit PoE Pro-Series**



Smart managed switches are developed by Hikvision, featuring easy management and maintenance. You can easily deploy, monitor and expand your security 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 x 10/100/1000 PoE Ports, 2 x 10/100/1000 Mbps RJ45, 2 x 10/100/1000 Mbps SFP
- Total PoE Power Budget 230 W
- Support 802.1Q VLAN
- Support 802.3bt Hi-PoE, Max. 90W for one port
- Support STP/RSTP Loop prevention, storm control
- Support cable detection to locate failure
- Support SNMP, QoS, DHCP snooping
- 6 kV Surge Protection



## • Specification

### General

Shell	Metal material
Net Weight	2.735 kg (6.03 lb)
Gross Weight	3.31 kg (7.30 lb)
Dimensions (W × H × D)	440 mm × 44 mm × 220.8 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 50/60 Hz 4 A
Installation Mode	Desk-Mounted,Rack (equipped with mounting ears)
Max. Power Consumption	250 W
Power Consumption in Idle	20 W
Surge Protection	6 kV

### Network Parameters

Ports	16 × Gigabit PoE port, 2 × Gigabit RJ45 port, 2 × Gigabit fiber optical port
MAC Address Table	8 K
Switching Capacity	Whole-Device Performance: 56 Gbps Port Performance: 40 Gbps
Packet Forwarding Rate	Whole-Device Performance: 29.76 Mpps Port Performance: 41.66 Mpps
Internal Cache	4.1 Mbits

### PoE Power Supply

PoE Standard	Ports 1 to 4: IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt Ports 5 to 16: IEEE 802.3af, IEEE 802.3at
PoE Power Pin	Ports 1 to 4: 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-) Ports 5 to 16: End-span: 1/2(-), 3/6(+)
PoE Port	Hi-PoE: Ports 1 to 4 PoE: Ports 5 to 16
Max. Port Power	Ports 1 to 4: 90 W Ports 5 to 16: 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.
Port Isolation	Ports 1 to 20: 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 8 aggregation groups.



Loop Prevention	<p>Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default.</p> <p>Support 802.1D STP.</p> <p>Support 802.1w RSTP.</p>
QoS	<p>QoS is used to allocate bandwidth to different services so as to provide end-to-end service quality assurance.</p> <p>Support port-based priority configuration.</p> <p>Support SP, WRR priority schedule mode.</p>
VLAN	<p>VLAN is used for network scale planning and network health improvement.</p> <p>Support 802.1Q.</p> <p>Configurable VLAN ID from 1-4094.</p> <p>Support Trunk, Access port mode.</p> <p>Support Max. 4094 VLAN.</p>
HPP	<p>Support one-click activation and remote management via Hik-Partner Pro. Functions supported:</p> <ol style="list-style-type: none"> <li>1. Display the port rate.</li> <li>2. Display the port bandwidth utilization rate.</li> <li>3. Display the PoE power usage.</li> <li>4. Display topology information.</li> <li>5. Display the alarm status.</li> <li>6. Restart ports and devices.</li> <li>7. Enable port long-range mode.</li> <li>8. Remotely upgrade the device.</li> </ol> <p>Support device management via web.</p>
System Maintenance	<p>Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses.</p> <p>Support Super IP, which is a fixed IP address (10.180.190.200) for direct access.</p> <p>Support management via Hik-Central Pro.</p> <p>Support remote management via Hik-Partner Pro.</p> <p>Support cable detection. Abnormal open circuits and short circuits as well as network cable length can be detected.</p> <p>Supports 802.1ab LLDP for peer device discovery.</p> <p>Support SNMP v1/v2c for third-party management platform access.</p> <p>Support port mirroring for fault locating.</p>
Port Rate-Limiting	<p>Port rate-limiting is used for port bandwidth adjustment to prevent network congestion.</p>
Storm Control	<p>Storm control is used to prevent switch ports from being blocked by broadcast or multicast storms in the LAN, which may affect network communication.</p> <p>Support port rate limiting based on broadcast, multicast, and unknown unicast packets.</p>
DHCP Snooping	<p>DHCP Snooping can prevent unauthorized connections to DHCP servers from disrupting the network and affecting normal network communication, and only allow DHCP packets from trusted ports to pass through. Disabled by default.</p>
ACL	<p>Port security strategy.</p> <p>Support up to 64 ACL entries.</p> <p>Support up to 128 configuration rules under all ACL entries.</p>



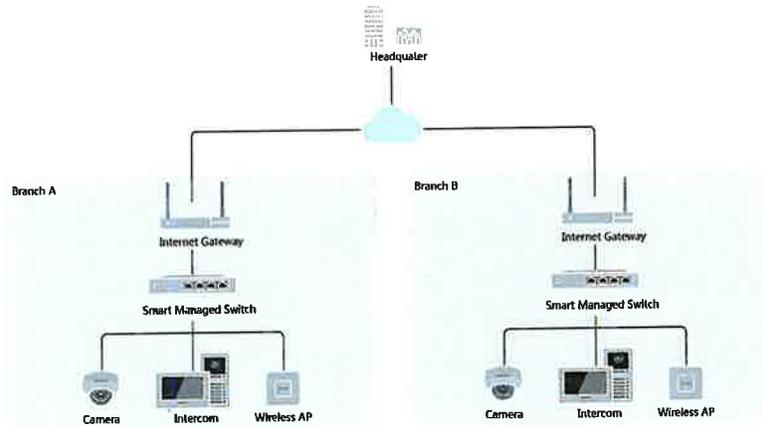
IPSG can control the security of port access device.  
 Support port, MAC, IP binding.  
 Support 256 security entries.

**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)

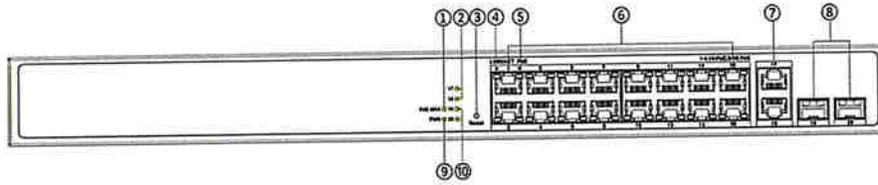
**Available Model**  
 DS-3E1520HP-SI-16P2T2F

**Typical Application**

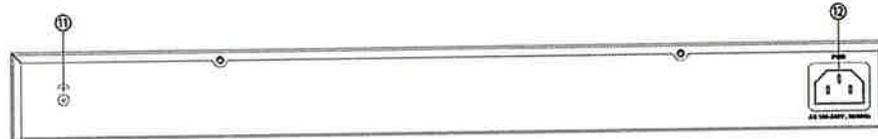


## Physical Interface

Front Panel



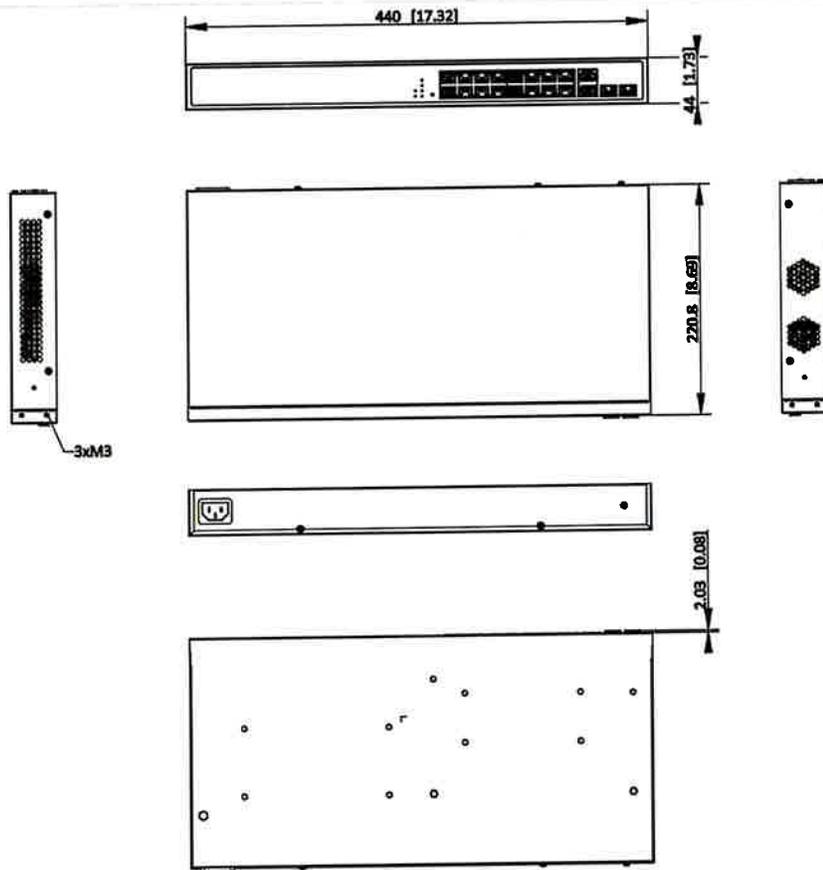
Rear Panel



No.	Indicator/ Port	Description
①	PoE-MAX Indicator	<ul style="list-style-type: none"> <li>● 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.</li> <li>● 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.</li> </ul> <p>Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.</p>
②	Gigabit RJ45 Port Indicator	<ul style="list-style-type: none"> <li>● Solid on: The gigabit RJ45 port is connected.</li> <li>● Flashing: The gigabit RJ45 port is transmitting data.</li> <li>● Unlit: The gigabit RJ45 port is disconnected or connection is abnormal.</li> </ul>
③	Reset Button	Press and hold the reset button for about 5 seconds to restore all the configurations of the switch to default settings.
④	LINK/ACT Indicator	<ul style="list-style-type: none"> <li>● Solid on: The port is connected.</li> <li>● Flashing: The port is transmitting data.</li> <li>● Unlit: The port is disconnected or connection is abnormal.</li> </ul>
⑤	PoE Indicator	<ul style="list-style-type: none"> <li>● Solid on: The switch provides power supply to a PD normally.</li> <li>● Unlit: The switch is disconnected to a PD, or provides power supply to a PD abnormally.</li> </ul>
⑥	Gigabit PoE RJ45 Port	Used for connection to a PD via a network cable. Note: Ports 1 to 4 of 1520HP series switches are Hi-PoE RJ45 ports, which can be connected to high-power devices.
⑦	Gigabit RJ45 Port	Used for connection to another device via a network cable.
⑧	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.
⑨	PWR Indicator	<ul style="list-style-type: none"> <li>● Solid on: The switch is powered on normally.</li> <li>● Unlit: No power supply is connected or power supply is abnormal.</li> </ul>
⑩	Gigabit SFP Fiber Optical Port Indicator	<ul style="list-style-type: none"> <li>● Solid on: The gigabit SFP fiber optical port is connected.</li> <li>● Flashing: The gigabit SFP fiber optical port is transmitting data.</li> <li>● Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.</li> </ul>
⑪	Grounding Terminal	Used for connecting to the grounding cable to protect the switch from lightning.
⑫	Power Supply	Use the attached power cord to connect the switch to a socket.



Dimension



Unit: mm [inch]

SCALE 1:1



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**DS-3E1528HP-SI-24P2T2F**  
**Smart Gigabit PoE Pro-Series**



Smart managed switches are developed by Hikvision, featuring easy management and maintenance. You can easily deploy, monitor and expand your security 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.

- 24 x 10/100/1000 Mbps PoE Ports, 2 x 10/100/1000 Mbps RJ45, 2 x 10/100/1000 Mbps SFP
- Total PoE Power Budget 370 W
- Support 802.1Q VLAN
- Support 802.3bt Hi-PoE, Max. 90W for one port
- Support STP/RSTP Loop prevention, storm control
- Support cable detection to locate failure
- Support SNMP, QoS, DHCP snooping
- 6 kV Surge Protection



▪ **Specification**

**General**

Shell	Metal material
Net Weight	2.975 kg (6.56 lb)
Gross Weight	3.535 kg (7.79 lb)
Dimensions (W × H × D)	440 mm × 44 mm × 220.8 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 50/60 Hz 6.3 A
Installation Mode	Desk-Mounted,Rack (equipped with mounting ears)
Max. Power Consumption	400 W
Power Consumption in Idle	30 W
Surge Protection	6 kV

**Network Parameters**

Ports	24 × Gigabit PoE port,2 × Gigabit RJ45 port,2 × Gigabit fiber optical port
MAC Address Table	8 K
Switching Capacity	Whole-Device Performance: 56 Gbps Port Performance: 56 Gbps
Packet Forwarding Rate	Whole-Device Performance: 41.66 Mpps Port Performance: 41.66 Mpps
Internal Cache	4.1 Mbits

**PoE Power Supply**

PoE Standard	Ports 1 to 4: IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt Ports 5 to 24: IEEE 802.3af, IEEE 802.3at
PoE Power Pin	Ports 1 to 4: 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-) Ports 5 to 24: End-span: 1/2(-), 3/6(+)
PoE Port	Hi-PoE: Ports 1 to 4 PoE: Ports 5 to 24
Max. Port Power	Ports 1 to 4: 90 W Ports 5 to 24: 30 W
PoE Power Budget	370 W

**Software Function**

Long Range	Ports 1 to 24: up to 300 m. Long range performance may vary depend on camera model or cable condition.
Port Isolation	Ports 1 to 28: 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.
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.



Loop Prevention	<p>Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default.</p> <p>Support 802.1D STP.</p> <p>Support 802.1w RSTP.</p> <p>VLAN is used for network scale planning and network health improvement.</p>
VLAN	<p>Support 802.1Q.</p> <p>Configurable VLAN ID from 1-4094.</p> <p>Support Trunk, Access port mode.</p> <p>Support Max. 4094 VLAN.</p>
QoS	<p>QoS is used to allocate bandwidth to different services so as to provide end-to-end service quality assurance.</p> <p>Support port-based priority configuration.</p> <p>Support SP, WRR priority schedule mode.</p> <p>Support one-click activation and remote management via Hik-Partner Pro. Functions supported:</p>
HPP	<ol style="list-style-type: none"> <li>1. Display the port rate.</li> <li>2. Display the port bandwidth utilization rate.</li> <li>3. Display the PoE power usage.</li> <li>4. Display topology information.</li> <li>5. Display the alarm status.</li> <li>6. Restart ports and devices.</li> <li>7. Enable port long-range mode.</li> <li>8. Remotely upgrade the device.</li> </ol> <p>Support device management via web.</p> <p>Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses.</p> <p>Support Super IP, which is a fixed IP address (10.180.190.200) for direct access.</p> <p>Support management via Hik-Central Pro.</p>
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ACL	<p>Port security strategy.</p> <p>Support up to 64 ACL entries.</p> <p>Support up to 128 configuration rules under all ACL entries.</p>

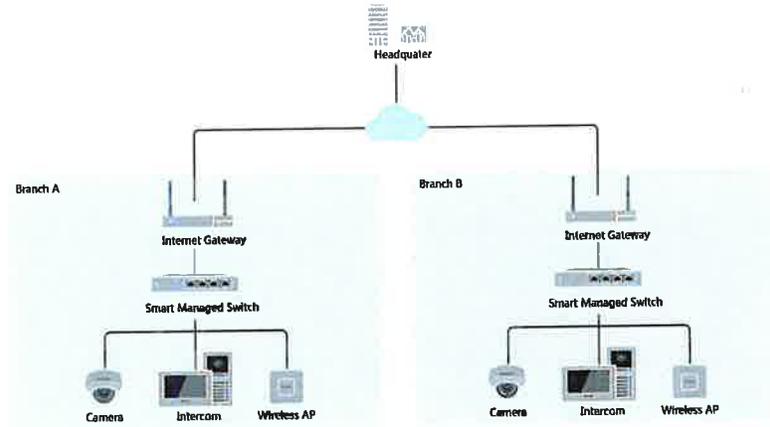


IPSG can control the security of port access device.  
 Support port, MAC, IP binding.  
 Support 256 security entries.

<b>Approval</b>	
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)

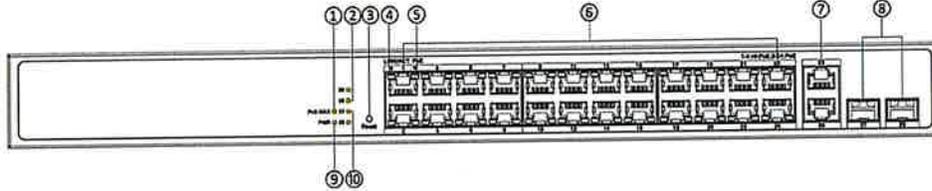
▪ **Available Model**  
 DS-3E1528HP-SI-24P2T2F

▪ **Typical Application**



## Physical Interface

Front Panel



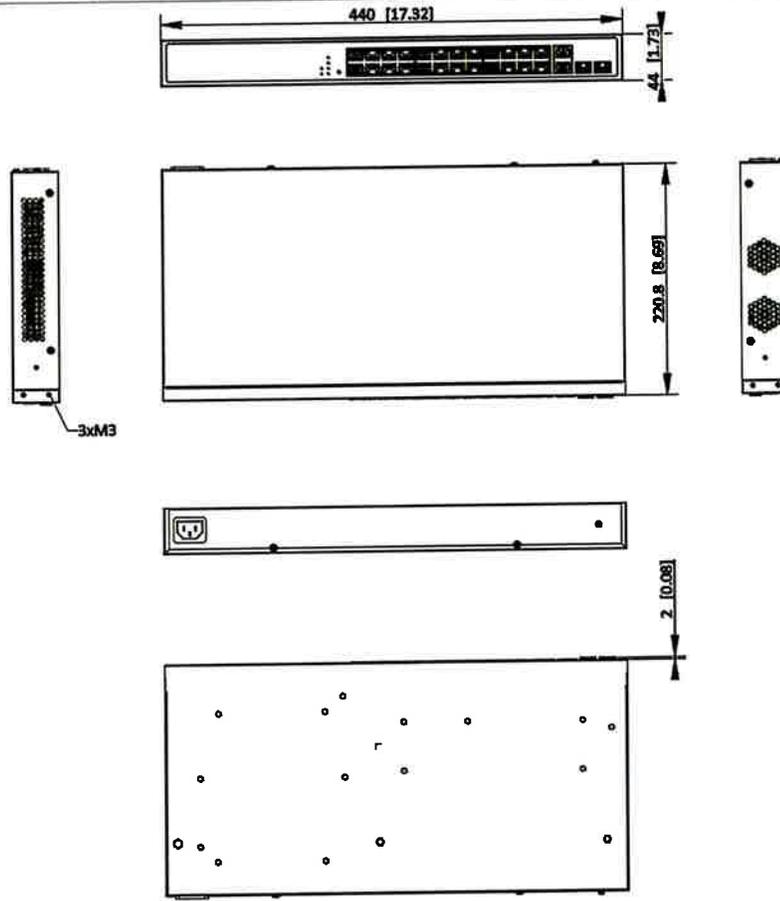
Rear Panel



No.	Indicator/ Port	Description
①	PoE-MAX Indicator	<ul style="list-style-type: none"> <li>● 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.</li> <li>● 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.</li> </ul> <p>Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.</p>
②	Gigabit RJ45 Port Indicator	<ul style="list-style-type: none"> <li>● Solid on: The gigabit RJ45 port is connected.</li> <li>● Flashing: The gigabit RJ45 port is transmitting data.</li> <li>● Unlit: The gigabit RJ45 port is disconnected or connection is abnormal.</li> </ul>
③	Reset Button	Press and hold the reset button for about 5 seconds to restore all the configurations of the switch to default settings.
④	LINK/ACT Indicator	<ul style="list-style-type: none"> <li>● Solid on: The port is connected.</li> <li>● Flashing: The port is transmitting data.</li> <li>● Unlit: The port is disconnected or connection is abnormal.</li> </ul>
⑤	PoE Indicator	<ul style="list-style-type: none"> <li>● Solid on: The switch provides power supply to a PD normally.</li> <li>● Unlit: The switch is disconnected to a PD, or provides power supply to a PD abnormally.</li> </ul>
⑥	Gigabit PoE RJ45 Port	Used for connection to a PD via a network cable. Note: Ports 1 to 4 of 1528HP series switches are HI-PoE RJ45 ports, which can be connected to high- power devices.
⑦	Gigabit RJ45 Port	Used for connection to another device via a network cable.
⑧	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.
⑨	PWR Indicator	<ul style="list-style-type: none"> <li>● Solid on: The switch is powered on normally.</li> <li>● Unlit: No power supply is connected or power supply is abnormal.</li> </ul>
⑩	Gigabit SFP Fiber Optical Port Indicator	<ul style="list-style-type: none"> <li>● Solid on: The gigabit SFP fiber optical port is connected.</li> <li>● Flashing: The gigabit SFP fiber optical port is transmitting data.</li> <li>● Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.</li> </ul>
⑪	Grounding Terminal	Used for connecting to the grounding cable to protect the switch from lightning.
⑫	Power Supply	Use the attached power cord to connect the switch to a socket.



▪ Dimension



Unit: mm [inch]



# See Far, Go Further



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## 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 x 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.



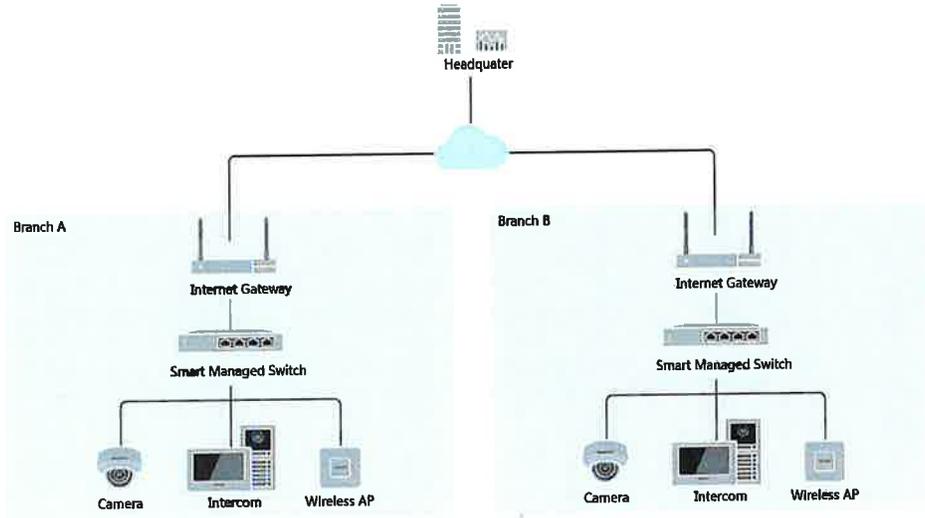
Loop Prevention	<p>Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default.</p> <p>Support 802.1D STP.</p> <p>Support 802.1w RSTP.</p> <p>VLAN is used for network scale planning and network health improvement.</p> <p>Support 802.1Q.</p>
VLAN	<p>Configurable VLAN ID from 1-4094.</p> <p>Support Trunk, Access port mode.</p> <p>Support Max. 4094 VLAN.</p> <p>Support one-click activation and remote management via Hik-Partner Pro. Functions supported:</p> <ol style="list-style-type: none"> <li>1. Display the port rate.</li> <li>2. Display the port bandwidth utilization rate.</li> <li>3. Display topology information.</li> <li>4. Display the alarm status.</li> <li>5. Restart ports and devices.</li> <li>6. Remotely upgrade the device.</li> </ol>
HPP	
System Maintenance	<p>Support remote upgrade, default parameter restoration, logs viewing, basic network parameter configuration, import and export configuration, and time synchronization.</p>
Port Rate-Limiting	<p>Port rate-limiting is used for port bandwidth adjustment to prevent network congestion.</p>
Storm Control	<p>Storm control is used to prevent switch ports from being blocked by broadcast or multicast storms in the LAN, which may affect network communication.</p> <p>Support port rate limiting based on broadcast, multicast, and unknown unicast packets.</p>
<b>Approval</b>	
EMC	<p>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)</p>
Safety	<p>CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)</p>
Chemistry	<p>CE-RoHS (201165EU);</p> <p>WEEE (201219EU);</p> <p>Reach (Regulation (EC) No.19072006)</p>

▪ **Available Model**

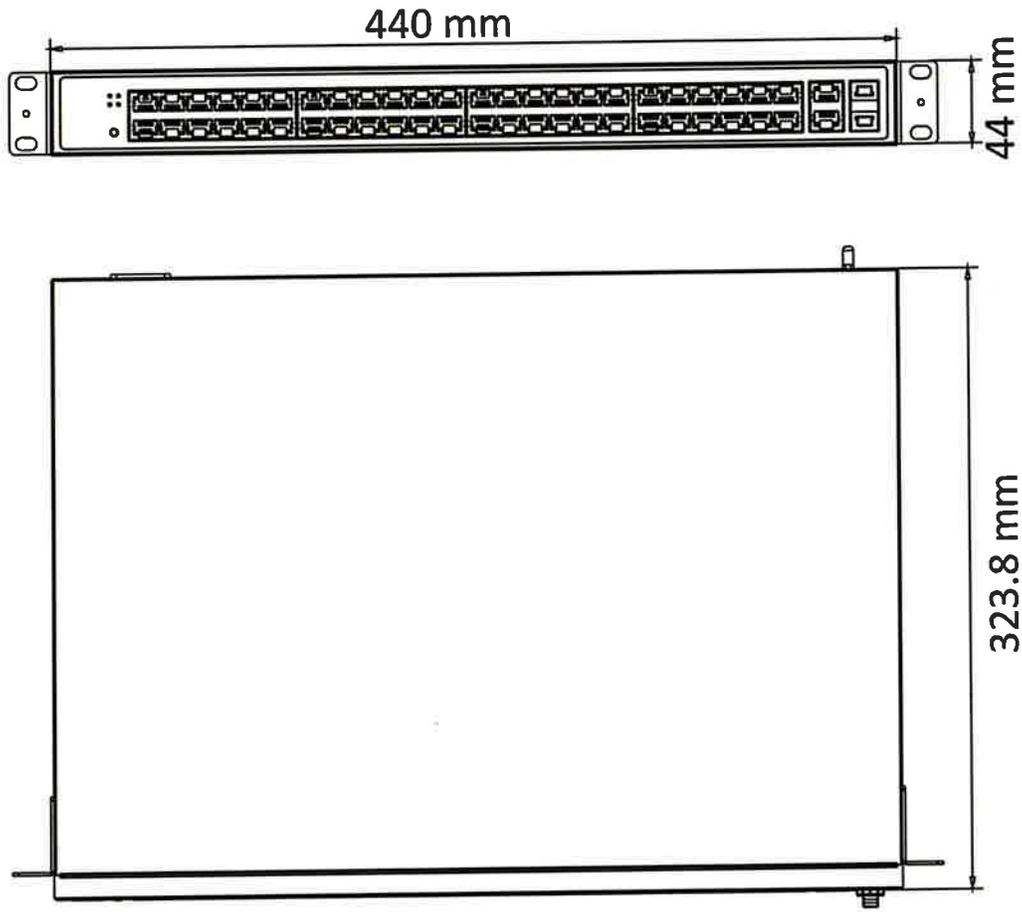
DS-3E1552P-SI



▪ Typical Application



▪ Dimension



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## HK-SFP-1.25G Series SFP Module

### Features and Functions

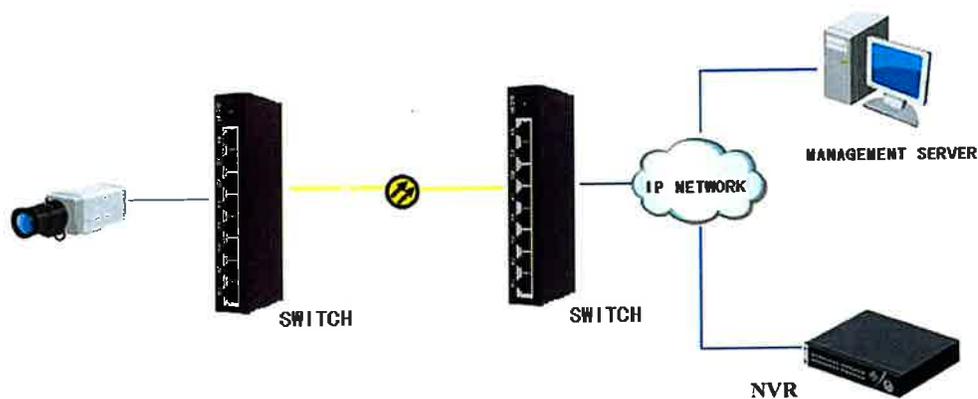
- Single Power Supply 3.3V
- Small Form Factor Pluggable (SFP) MSA Compatible
- Duplex LC Connector
- Hot Pluggable Capability
- Compliant With ROHS Standard
- Cost effective SFP solution, enables higher port densities and greater bandwidth
- Support 1.25G Ethernet



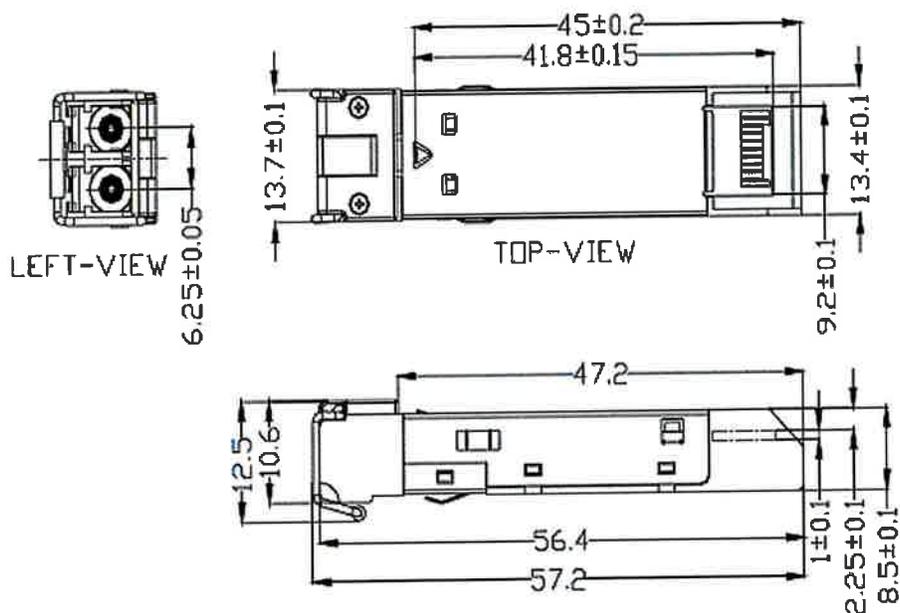
## Specifications

Item	HK-SFP-1.25G-20-1310-DF
Fiber type	SMF, duplex fiber, 9/125um
Connector	LC
Data Rate	1250 Mbps
Connector quantity	2
Distance	0~20km
Wavelength	Tx1310nm/Rx1310nm
TX Power	-6~-1dBm
RX Sens(Max.)	-21dBm
Operating temperature	0~70°C
Storage temperature	-40~85°C
Relative humidity	30~80%
Power supply voltage	DC 3.3V

## Typical applications



## Mechanical (mm)



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PRODUCT DATA SHEET

Star Wallmount Cabinet, Start Single Section

Standard

- Complies with ANSI/EIA RS-310-D, IEC 297-1, 19" Mounting, IEC297-2 Overall cabinet dimensions, EN 61587-1:2012 mechanical Structures for Electronic Equipment, DIN41491; PART1, DIN41494; PART7, GB/3047.2-92 standards, UL certified

Material

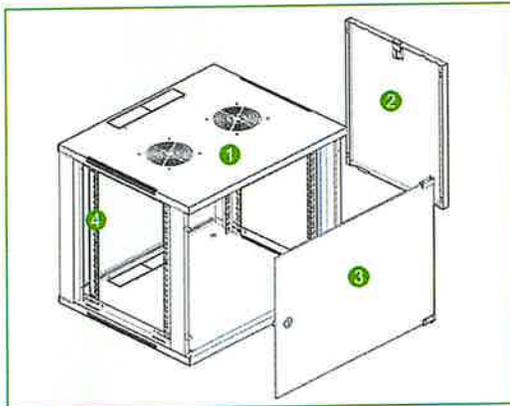
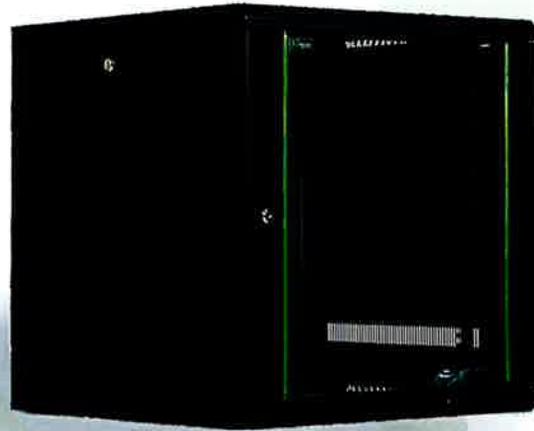
- SPCC Cold Rolled Steel;
- Thickness: 19" rails: 2mm, others: 1.0mm

Color

- RAL7035
- RAL9004

Loading Capacity

- Static loading: Up to 115 KG



Feature

- Single -section wallmount cabinet.
- Tempered glass front door with 180° turning radius rotatable key lock.
- Removable side and rear panels for quick installation of equipment.
- Adjustable front and rear mounting posts conform to different equipment depth requirements. Dual mounting post with #12-24 threaded holes and square holes for cage nuts.
- Ventilated door design for added air flow and cooling.
- Cable entry brush panel on the top cover and knock-outs on the bottom plate.
- Provided with 1 fan with UL cord installed. Additional fan may be provided upon request.
- Easy to wall mount back plate.
- Available in heights from 6u to 23u.
- Fully assembled for quick installation and packaged in a honeycomb carton. Optional space saving flat packaging available upon request.

Definition of Code

NTFWC ■■■ U600

Cabinet capacity( U): 6, 9, 12, 16, 20, 23

Definition of front door:

- Blank-Tempered glass door (default option)
- 1-Tempered glass door with striped hole (Espacial request)
- 2-Tempered glass door with hexagon hole (Espacial request)
- 3- Sheet steel door (Espacial request)
- 4-Sheet steel door with hexagon hole (Espacial request)
- 5-High-density vented door (Espacial request)



**Main Part**

S/N	Specification	Qty	Material	Surface Finish	Remark
1	Frame	1	SPCC t1.0	Powder coated	----
2	Side panel	2	SPCC t1.0	Powder coated	----
3	Front door	1	5MM toughed glass	----	----
4	19 " rails	4	SPCC t1.2	Powder coated	----
A	M6 screw& nuts	10	Steel	Color zinc	----
B	Trox tooling	1	Steel	Black	----

**Specification**

Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Static Loading Capacity (kg)
NTFWC6U600	6	600	600	370	90
NTFWC9U600	9	600	600	500	90
NTFWC12U600	12	600	600	635	95
NTFWC16U600	16	600	600	770	100
NTFWC20U600	20	600	600	900	110
NTFWC23U600	23	600	600	1080	115



PRODUCT DATA SHEET

Star Wallmount Cabinet, Start Single Section

Standard

- Complies with ANSI/EIA RS-310-D, IEC 297-1, 19" Mounting, IEC297-2 Overall cabinet dimensions, EN 61587-1:2012 mechanical Structures for Electronic Equipment, DIN41491; PART1, DIN41494; PART7, GB/3047.2-92 standards, UL certified

Material

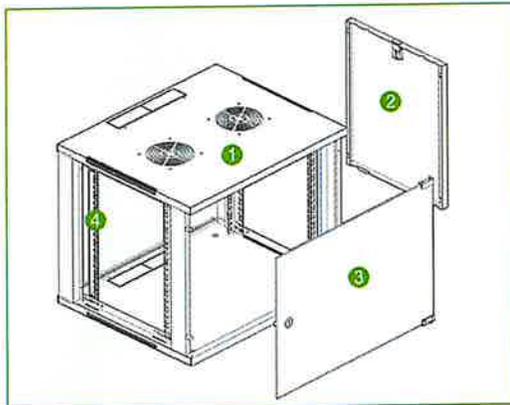
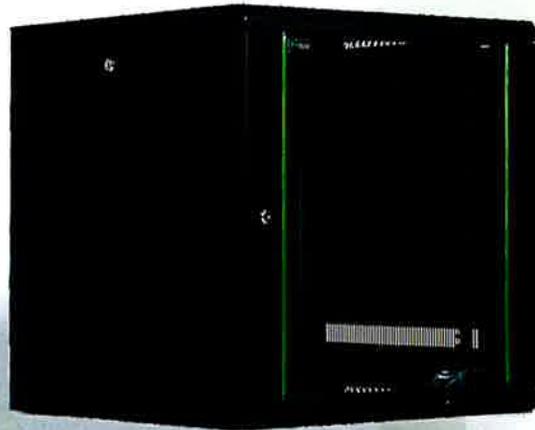
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- Thickness: 19" rails: 2mm, others: 1.0mm

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- RAL9004

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Feature

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- Provided with 1 fan with UL cord installed. Additional fan may be provided upon request.
- Easy to wall mount back plate.
- Available in heights from 6u to 23u.
- Fully assembled for quick installation and packaged in a honeycomb carton. Optional space saving flat packaging available upon request.

Definition of Code

- NTFWC ■■■ U600
- Cabinet capacity( U) : 6, 9, 12, 16, 20, 23
  - Definition of front door:
    - Blank-Tempered glass door (default option)
    - 1-Tempered glass door with striped hole (Espacial request)
    - 2-Tempered glass door with hexagon hole (Espacial request)
    - 3- Sheet steel door (Espacial request)
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    - 5-High-density vented door (Espacial request)



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Model N o.	RU	Width (mm)	Depth(D)(mm)	Height(H)(mm)	Static Loading Capacity (kg)
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NTFWC12U600	12	600	600	635	95
NTFWC16U600	16	600	600	770	100
NTFWC20U600	20	600	600	900	110
NTFWC23U600	23	600	600	1080	115



# 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 700W	1500VA 1050W	2000VA 1400W	3000VA 2100W	5000VA 3500W
<b>AC MODE</b>					
Input Voltage	85-145Vac or 145-275Vac				
Input Frequency	45-65Hz				
Output Voltage	100-127Vac or 200-240Vac				
<b>INVERTER MODE</b>					
Output Voltage	120V±5% or 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				
<b>BATTERY</b>					
Battery Type	Sealed maintenance-free lead-acid batteries				
DC Voltage	24Vdc				
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				
<b>PROTECTION</b>					
Full Protection	Low voltage & overload & short circuit protection				
<b>INDICATOR</b>					
LCD or LED	LCD display				
<b>INTERFACE</b>					
USB/RJ45 or RS232/ RJ45 or None	Optional, support windows XP/Vista, Windows 7/8, Linux, Unix, and MAC				
<b>ENVIRONMENT</b>					
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 sea level should be reduced to a maximum of 4000m. Refer to IEC62040				
<b>PHYSICAL</b>					
Net Weight (kg)	16.2	19.2	26.6	28.5	39
Dimension (mm)	441x445x88				





## Product Highlights

- Capacity up to 8TB<sup>1</sup>
- Designed for mainstream surveillance systems
- WD AllFrame™ helps reduce dropped frames
- Supports up to 180TB/yr workload rate<sup>7</sup>
- 3-year limited warranty<sup>9</sup>

## WD Purple® Hard Drives

### The Right Drive for Smart Video Surveillance

WD Purple® drives are designed to meet the challenges of 24x7 video surveillance recording. These drives are engineered specifically for surveillance to help withstand the elevated heat fluctuations and equipment vibrations within NVR environments. An average desktop drive is built to run for only short intervals, not the harsh 24/7 always-on environment of a high-definition surveillance system. With WD Purple drives, you get reliable, surveillance-class storage that's tested for compatibility in a wide range of security systems. Exclusive WD AllFrame™ technology helps reduce frame loss and improve overall video playback.

### Industry-Leading Storage. Surveillance You Can Trust.

Western Digital has provided surveillance-grade storage for more than a decade. With WD Purple® surveillance storage, drives are engineered for high temperature, always-on surveillance systems so you can rely on quality video when you need it most. WD Purple delivers smart video storage that you can trust and are backed by a 3-year limited warranty<sup>9</sup>.

### Western Digital's Exclusive WD AllFrame™ Technology

All WD Purple® drives are equipped with AllFrame™ technology, which helps reduce video frame drops and improves video recording and playback.

### Enhanced Workload Ratings

WD Purple® drives feature a workload rating of up to 180TB/year<sup>7</sup> – up to three times that of desktop drives – to handle the unique demands of mainstream video surveillance DVR and NVR systems.

### Multiple Cameras, Multiple Streams

Modern recorders now support multiple video streams per camera. WD Purple® drives support up to 64 single-stream HD cameras. Modern recorders now support multiple video streams per camera. Select WD Purple® drives support up to 64 single-stream HD cameras<sup>5</sup>. With so many options, you have the flexibility to upgrade or expand your security applications in the future.

### Designed for Reliable Operation

Engineered for reliability with an MTBF of up to 1 million hours<sup>8</sup> and backed with a 3-year limited warranty<sup>9</sup>, WD Purple® drives feature tarnish-resistant components<sup>11</sup> and support for storage systems with up to 16 drive bays<sup>12</sup>. WD Purple® hard drives are designed with RAID error recovery control to help reduce failures in supported video recorders.

### Wide Compatibility. Seamless Integration.

WD Purple® hard drives are built with compatibility in mind, so you can quickly and seamlessly add capacity to your surveillance system. With a wide range of industry-leading enclosures and chipsets supported, you're sure to find the DVR or NVR configuration that's right for you.

### Three-Year Limited Warranty

As an industry-leading hard drive manufacturer, Western Digital stands behind their surveillance storage solutions with a 3-year limited warranty<sup>9</sup> included with every WD Purple® drive.



## PRODUCT BRIEF

## SURVEILLANCE HARD DRIVE

## Specifications

	8TB	6TB	4TB	3TB	2TB	1TB
<b>Model Number</b>	WD8SPURZ	WD64PURZ	WD43PURZ	WD33PURZ	WD23PURZ	WD11PURZ
Formatted capacity <sup>1</sup>	8TB	6TB	4TB	3TB	2TB	1TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
Recording Technology	CMR	CMR	CMR	CMR	CMR	CMR
Interface	SATA 6Gb/s					
RoHS compliant <sup>2</sup>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Product Features</b>						
Cameras supported <sup>3</sup>	Up to 64 HD	Up to 64				
Maximum Drive Bays Supported	16	16	16	16	8	8
Firmware Feature Name	AllFrame	AllFrame	AllFrame	AllFrame	AllFrame	AllFrame
Tarnish resistant components	Yes	Yes	Yes	Yes	No	No
RV Sensors	Yes	Yes	Yes	Yes	No	No
<b>Performance</b>						
Interface transfer rate (max) <sup>4</sup>	6 Gb/s					
Buffer to host	215 MB/s	180MB/s	180MB/s	180MB/s	180MB/s	180MB/s
Host to/from drive (sustained) <sup>5</sup>	256	256	256	256	64	64
Cache (MB) <sup>1</sup>	256	256	256	256	64	64
<b>Reliability/Data Integrity</b>						
Load/unload cycles <sup>6</sup>	300,000	300,000	300,000	300,000	300,000	300,000
Annualized workload rating <sup>7</sup>	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>					
MTBF <sup>8</sup>	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Limited warranty (years) <sup>9</sup>	3	3	3	3	3	3
<b>Power Management<sup>10</sup></b>						
Average power requirements (W)						
Read/Write	5.3	4.7	4.7	4.6	3.8	3.8
Idle	4.7	4.3	4.3	3.7	3.2	3.2
Standby and Sleep	0.4	0.3	0.3	0.3	0.3	0.3
<b>Environmental Specifications</b>						
Temperature (°C, on the base casting)						
Operating	0 to 65					
Non-operating	-40 to 70					
Shock (Gs)						
Operating (2 ms, read/write)	70	30	30	30	30	30
Operating (2 ms, read)	70	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	250	250
Acoustics (dBA)						
Idle	24	23	23	23	21	21
Seek (average)	28	27	27	27	26	26
<b>Physical Dimensions</b>						
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg, ± 3%)	1.58/0.72	1.26/0.57	1.26/0.57	1.26/0.57	0.99/0.45	0.99/0.45

1 1MB = 1 million bytes, 1GB = 1 billion bytes, and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

2 This drive is in compliance with the European Union Directive 2011/65/EU and Directive (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

3 Single stream at 3.2MBps (1080p, 11.265, 25 fps). Results may vary depending on camera resolution, file format, frames per second, software, system settings, video quality, and other factors.

4 Gigabit per second (Gbps) = one billion bits per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit [www.sata-io.org](http://www.sata-io.org) for details.

5 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

6 Controlled unload at ambient condition.

7 Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred x (8760 / recorded power-on hours)). Workload Rate will vary depending on your hardware and software components and configurations.

8 MTBF specifications are based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions: workload of 90TB/year and drive temperature of 40°C. Derating of MTBF will occur above these parameters, up to 65°C drive temperature. MTBF does not predict an individual drive's reliability and does not constitute a warranty.

9 See <http://support.wdc.com/warranty> for regional specific warranty details.

10 Power measurements at room-ambient temperature.

11 Tarnish resistant components for capacities 3TB and higher.

12 1TB through 2TB support up to eight bays; 3TB and above support up to 16 bays.

Western Digital.

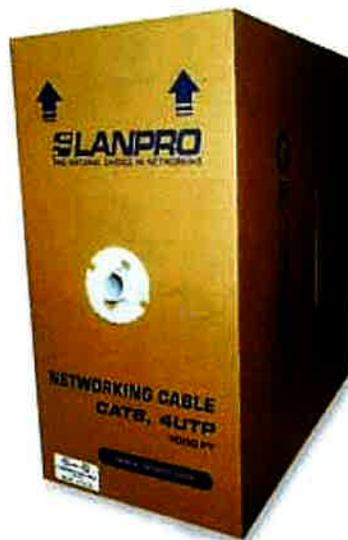


**LP-C6010BLB LanPro Reliable® CAT 6 type U/UTP Network Cable, CM-rated with Solid Copper Conductors and Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305m) Easy-Pull Box.**

LPC6010BLB\_SS\_ENB01W

### Features

- ETL verified to TIA/EIA 568B CAT 6.
- Very Flexible.
- Superior performance to traditional designs.
- 568-A and 568-B compatible.
- Exceeds ANSI/TIA-568-C.2, ISO/IEC 11801, UL 1685 (UL 1581, Sec. 1160) Vertical-Tray, CSA FT1 requirements.
- Rugged Construction.
- Backward compatible with Cat5e and Cat5 systems.
- Excellent price/performance ratio.
- Blue color jacket.
- Four (4) 23 AWG Twisted Pairs.
- Flame rating: CM thermoplastic cover Jacket with a thickness of 0,48mm.
- Reliable 6 is a robust product.
- Packaged in one convenient presentation: 1000 feet(305m) in a Easy-Pull Box.
- Weight: 28lb (12.5Kg).
- The Geometry is better with Flexible-X™ technology.
- Operating voltage:  $\leq 48$  Vrms.
- UL E329019.
- ETL 4003289.



**LP-C6010BLB LanPro Reliable® CAT 6 type U/UTP Network Cable, CM-rated with Solid Copper Conductors, Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305m) Easy-Pull Box.**

Unshielded LanPro Reliable® LP-C6010BLB CAT 6 U/UTP Network CM-rated general purpose cable is the answer given by LanPro to the demand imposed by today's high performance applications at reasonable prices. Tested to well over 250 MHz, the guaranteed performance of this cable meets the ANSI/TIA-568-C.2, ISO/IEC 11801, UL 1685 (UL 1581, Sec. 1160) Vertical-Tray, CSA FT1 requirements, UL registered E329019 and ETL No. 4003289, making it ideal for transmission links supporting today's networking protocols.

### A Applications

Unshielded LanPro Reliable® LP-C6010BLB CAT 6 U/UTP Network CM-rated is intended for high speed data applications, including Gigabit Ethernet, 100BASE-Tx, token-ring, 155 Mbps ATM, 100 Mbps TP-PMD, ISDN, analog (Broadband, Baseband), digital video and Voice over IP(VoIP), it can also be used for Video surveillance IP cameras and 100BASE-TX and 4/16 Mb/s Token Ring.

#### IMPORTANT NOTE:

Unshielded LanPro Reliable® LP-C6010BLB CAT 6 U/UTP Network CM-rated belongs to a class of General Purpose cables, and may be used anywhere in commercial buildings other than areas where Riser or Plenum cables are required. The cables are flame tested and held to a lower standard than either Riser or Plenum cables. The chemicals used to produce such stopping of fire propagation need substances that have high quantities of halides.

When taking fire, CM cables generate fumes that contain these halides which react with water present in the environment and producing hydrochloric acid, a very irritant mist that produces suffocation when inhaled. LanPro recommends caution on the use of CM in public places.

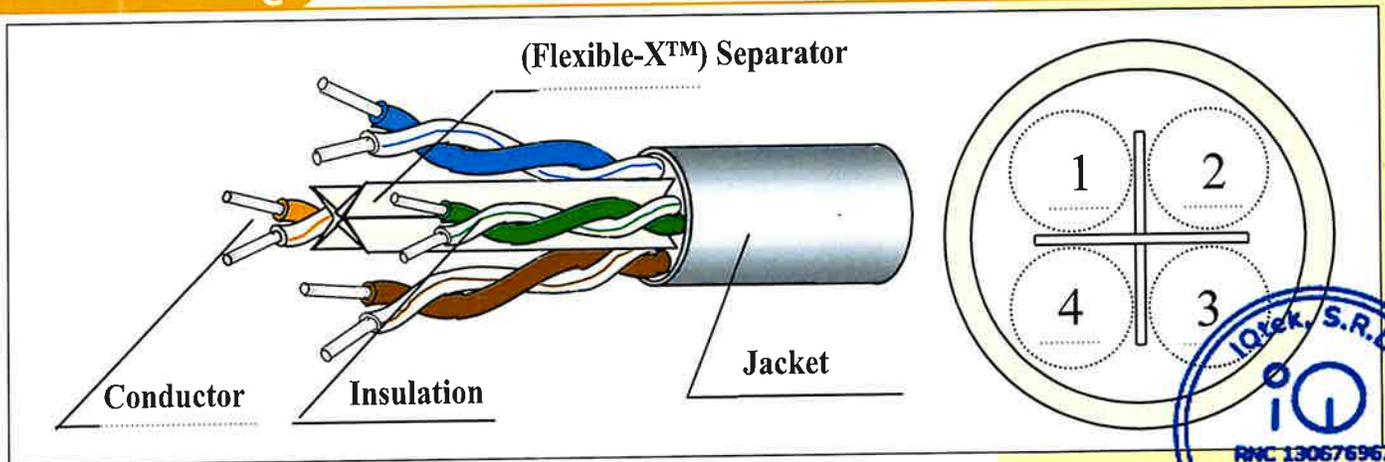


www.lanpro.com

**B Technical Specifications**

<b>Materials</b>	
Conductors	4 pairs AWG 23 Solid 100% Copper
Jacket	CM Blue Color
UL Registered	UL E329019
<b>Electrical</b>	
Impedance	100Ω±15%, 1 MHz to 100 MHz, ±22%, 125 MHz to 250 MHz
Propagation delay	536 ns/100 m max. @ 250 MHz
Skew	45 ns/100 m max. @250 MHz
Mutual Capacitance	5.1 nF max/100 m
Capacitance imbalance	160 nF max/100 m
Conductor resistance	8.9Ω max/100 m
Resistance imbalance	2% @ 20°C
Isolation Resistance @500V	Min 5000MΩ/Km @ 20°C
Test Voltage(1 min)	1KV /1 min (DC)
Operating Voltage	<48 Vrms
<b>Mechanical</b>	
Conductor diameter	0.57
Insulation Diameter	0.23
Outer diameter (nominal)	6.4 mm
Tension strenght	>9MPa, (9000KN/Square Meter)
Bending Radius	8xDiámetro externo durante la instalación, 4xDiámetro después
Operating Temperature	20°C a 75°C
Installation Temperature	0°C a 50°C
Storage Temperature	-20°C a 75°C

**C Structure**



**D Network Specification**

Frequency	Attenuation (Horizontal Cable)	NEXT pair-pair	NEXT Power sum	ELFEXT pair-pair	ELFEXT (Power sum)	Return Loss	Propagation Delay
MHz	dB/100m	dB	dB	dB	dB	dB	ns/100m
1	2.0	74.3	72.3	67.8	64.8	20.0	570.0
10	6.0	59.3	57.3	47.8	44.8	25.0	545.4
31.25	10.7	51.9	49.9	37.9	34.9	23.7	540.4
62.5	15.5	47.4	45.4	31.9	28.8	21.6	538.6
100	19.9	44.3	42.3	27.8	24.8	20.2	537.6
155	25.3	41.5	39.5	23.9	20.9	18.8	536.9
200	29.2	39.8	37.8	21.7	18.7	18.0	536.5
250	33.0	38.3	36.3	19.8	16.8	17.4	536.3

**E How to order**

**LP-C6010BLB**

LanPro Reliable® CAT 6 type U/UTP Network Cable, CM-rated with Solid Copper Conductors, Flexible-X™ separator for symmetry and Blue jacket in 1000 ft (305m) Easy-Pull Box.

LanPro is continuously improving its products and reserves the right to change specifications and availability without prior notice.



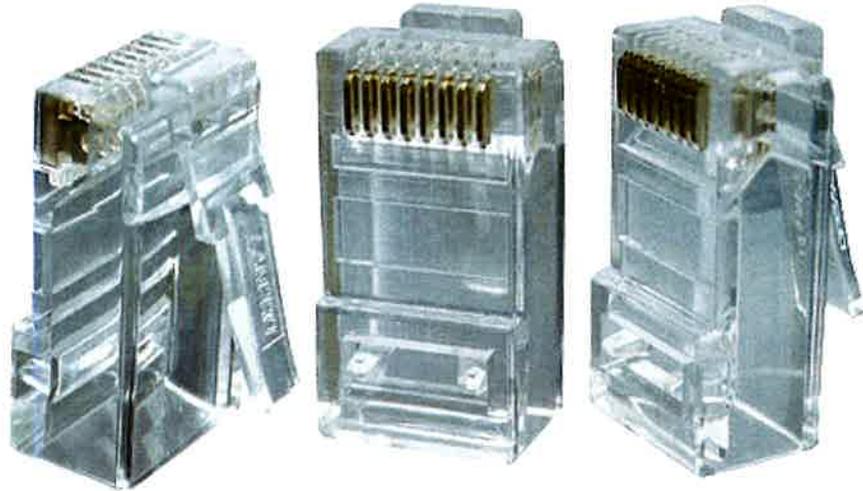
## LP-RJ458P8CC6US11

**Plug RJ45 8P8C CAT 6 sin blindar, de una parte, contactos con revestimiento dorado y tres puntas descentradas para conductores sólidos AWG 23-26**

LPRJ458P8CC6US11\_SS\_SPB01W

### Características

- Estilo de enchufe 8P8C (8 posiciones, 8 contactos).
- Compatibles con estándares de CAT 6.
- Plugs modulares de altísima calidad.
- Compatibles con conductores sólidos AWG 23 a 26.
- Estos plugs también soportan aplicaciones telefónicas en el hogar o sistemas de cableado en la oficina.
- Contactos con tres puntas descentradas y revestimiento dorado de 50 micropulgadas sobre 50 micropulgadas de níquel perforan el conductor sólido lateralmente sin romperlo, ni al contacto, lo que hace posible que tengan un mejor rendimiento, fuerza de señal más alta y mejores características de transmisión de datos.



### LP-RJ458P8CC6US11

**Plug RJ45 8P8C CAT 6 sin blindar, de una parte, contactos con revestimiento dorado y tres puntas descentradas para conductores sólidos AWG 23-26**

El plug RJ45 de 8 posiciones y 8 contactos CAT 6 sin blindar, de una parte, con contactos con revestimiento dorado y tres puntas descentradas para conductores sólidos AWG 23-26, se utiliza principalmente para hacer cables tipo patch cords con conductores sólidos y cumplen la función de interconectar los Sistemas de Cableado Estructurado tomando como base el estándar de categoría CAT 6 UTP.

Este plug tiene 8 contactos y es compatible con los esquemas de cableado 568-A y 568-B. Este conector puede utilizarse en aplicaciones de telefonía y tiene la capacidad de soportar hasta 4 pares de teléfonos, haciendo posible que el teléfono PABX tenga hasta 4 líneas conectadas a la compañía telefónica.

Estos plugs permiten la preparación en campo, por medio de conductores sólidos AWG 23 a AWG 26. La superficie de contacto posee revestimiento dorado de 50 micropulgadas, lo que garantiza una larga vida y un alto grado de resistencia contra la corrosión y los riesgos del medio ambiente.

Basados en estándares internacionales como ISO/IEC 11801, TIA 568 y EB50173, los plugs RJ45 de LanPro ofrecen una larga vida útil en sus instalaciones de cableado estructurado.

Aunque LanPro no recomienda la terminación en campo manual, principalmente debido a los problemas con la repetibilidad y la certificación bajo especificaciones exigentes, el usuario experimentado y cuidadoso puede lograr terminaciones buenas y certificables.

Se recomienda y se fomenta las terminaciones automáticas hechas en fábrica a través de los patch cords de tamaño estándar, también fabricados por LanPro en una variedad de colores.



**A Especificaciones**

**Material:**

Carcasa: policarbonato, UL 94V-2, transparente.

Terminal del contacto: bronce fosforado. Acabado: 50 micropulgadas de revestimiento dorado sobre 50 micropulgadas de níquel en el área de contacto.

**Características eléctricas:**

Aplicaciones: 150 VAC máx. @ 15A @ 25°C, baja el rating a 2A @ 70°C.

Voltaje de resistencia dieléctrica: 1000 VAC.

Resistencia de aislamiento: 500 MΩ.

**Rendimiento:**

Temperatura de funcionamiento: -40°C a 80°C.

Fuerza de tensión del plug del cable: 7.7 Kg.

Utilizado para conductores sólidos AWG 23 a 26.

Duración: 750 ciclos de inserción-extracción.

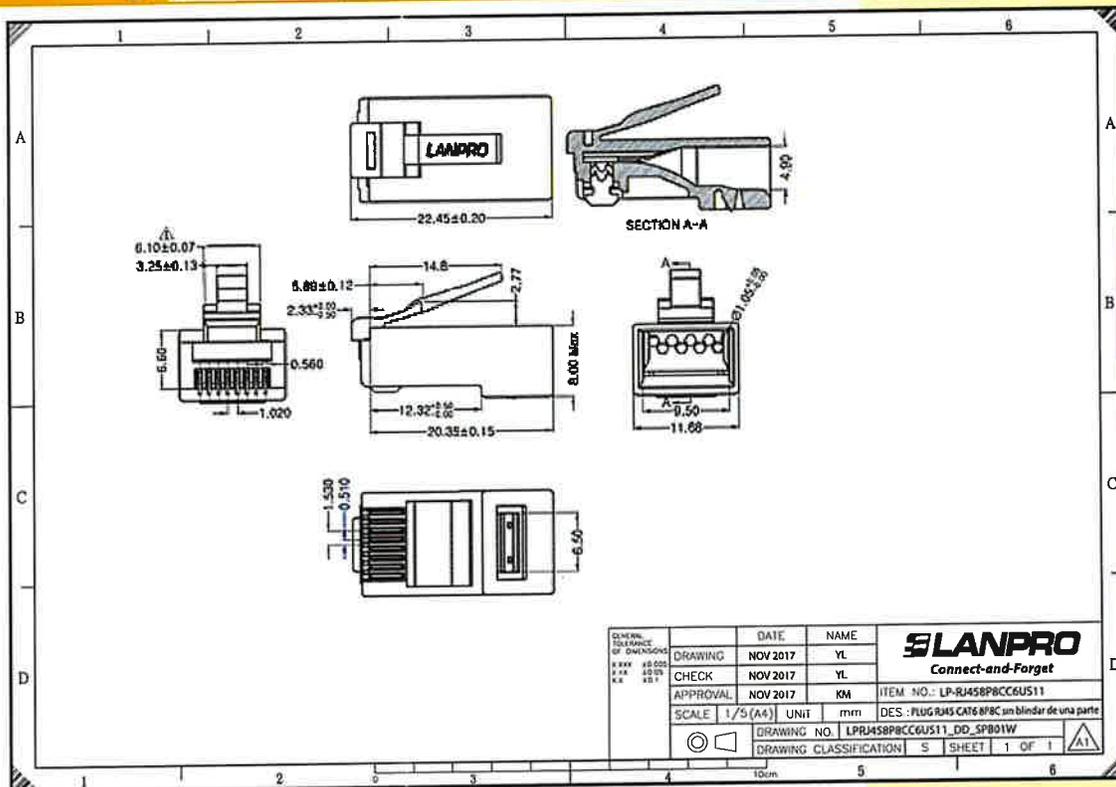
**Compatibilidad con los estándares:**

TIA 568-A y 568-B.

IEC 60603-7.

250 MHz Ethernet.

**B Planos Dimensionales**



**C Cómo ordenar**

**LP-RJ458P8CC6US11 Plug RJ45 8P8C CAT 6 sin blindar, de una parte, contactos con revestimiento dorado y tres puntas descentradas para conductores sólidos AWG 23 a 26.**

LanPro está mejorando sus productos continuamente y se reserva el derecho a cambiar las especificaciones y disponibilidad sin notificación previa.



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 (https://www.youtube.com/results?search\_query=lanpro)

# LP-B101BK1

**Botas anti-enganche para conectores RJ45 de PVC con un diámetro interno de 8mm.**



Las botas anti-enganche RJ45 de PVC con 8mm de diámetro interno son un accesorio necesario para los cables hechos en campo. Al momento de añadirlas a los cables patch cords, estas botas proveerán un alivio de tensión adicional y características de anti-enganche.

Disponibles en gris, azul, negro, blanco, rojo, verde, amarillo y naranja.

DOWNLOADS  (Download.Asp?id=1567)

- FEATURES**
- \* Proveen una superficie libre de enganches que protege sus dedos al momento de insertar o extraer el plug.
  - \* 8mm de diámetro interno
  - \* Mejora las características relacionadas con el alivio de tensión.
  - \* Código de color para un esquema limpio de cableado.
  - \* Fácil de instalar.



**HOW TO  
ORDER**

**\*LP-B101CC1, Botas anti-enganche para  
conectores RJ45 de PVC con un  
diámetro interno de 8mm.**

- CC: Color**
- WH: Blanco**
- GN: Verde**
- YL: Amarillo**
- BL: Azul**
- RD: Rojo**
- BK: Negro**
- GR: Gris**
- OR: Naranja**

**ej.**

**LP-B101BK1, Botas anti-enganche para  
conectores RJ45 de PVC con un  
diámetro interno de 8mm color negro.**

CONTACT » (../..../Contact.Asp?Ss=Sp)

## Related Products



**LP-XC6PUSXX**  
**8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone®**  
**Compatible Unshielded Jack, 90° IDC.**

LPXC6PUSXX\_SS\_ENB01W

### Features

- ▣ Fit for CAT 6 general cable distribution system, backward compatible with CAT 5e, CAT 5 and CAT 3 systems.
- ▣ Compliant with ISO/IEC 11801. 2002 CLASS & ANSI/TIA 568-C.2 CAT 6 T568-A and T568-B punching sequences are both compatible.
- ▣ Compliant with IEC 60603-7-4.
- ▣ UL® and ULc® certified under number# DUXR.E329018.
- ▣ Our standard style allows compatibility with many other brands and systems.
- ▣ Unshielded, rugged.
- ▣ Connection type FCC connector for RJ45 patch cords and IDC for 4-pair CAT 6 cables.
- ▣ High performance copper alloy contacts with 50 microinches of gold plating.
- ▣ 750 mating cycles minimum for RJ45.
- ▣ 250 mating cycles minimum for IDC.
- ▣ Competitively priced.
- ▣ Material: ABS UL94V-0.
- ▣ Positive latch system.
- ▣ UTP capable.
- ▣ Compatible with 110 punch down tools.
- ▣ Suitable for 23-26 AWG solid and stranded cable.
- ▣ Nine (9) vivid colors to choose from.



### LP-XC6PUSXX

**8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured**  
**Keystone® Compatible Unshielded Jack, 90° IDC.**

The CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack with 90° IDC are also compatible with our iMC® line of patch panels and flat and angled faceplates.

LanPro has designed them specifically for high speed and bandwidth in excess of 250 MHz. Our modular CAT 6 X-Class Jacks are designed to match our CAT 6 compatible products in a perfect way. All CAT 6 devices are very adaptable to customer changing requirements.

UL® and ULc® certified under number# DUXR.E329018. Our modular CAT 6 X-Class compatible Jacks allow for universal termination, either T568-A or T568-B, and are punch down design 90°, thus offering easiness and flexibility to the installer.

**Notice:** All our Jacks are also suitable for CAT 3 cabling system. Our traditional jacks have been the industrial standard for the last 20 years.

We have sold hundreds of thousands of them worldwide with a huge success. But products evolve due technology/cost improvements and become obsolete and are replaced by ones with better performance.

We decided to completely redesign the 8000 Series Jacks from scratch and up, with a focus on our customers' complaints, recommendations, and imagination! The new jack is designed to be mechanically stronger. Our most innovative improvement is greater reinforcement surrounding the cable feeder. The jack itself is smaller in size and easier to use. It also includes a narrower RJ45 footprint but maintaining the standard Keystone jack compatibility for the standard fixation to a faceplate or patch panel.

Because the jacks are robotically assembled, there is less human error in the manufacturing process ensuring consistency in product quality. The new jack is significantly smaller, which makes it ideal for even limited spaces.

Moreover, with the carved logo and design, counterfeiting is difficult. The locking latch is more flexible and easier to press, but it's still reliable.



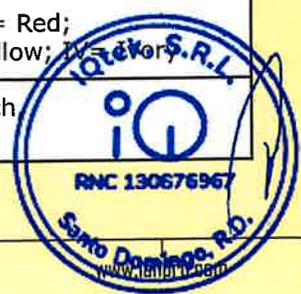
www.lanpro.com

**A Specifications:**

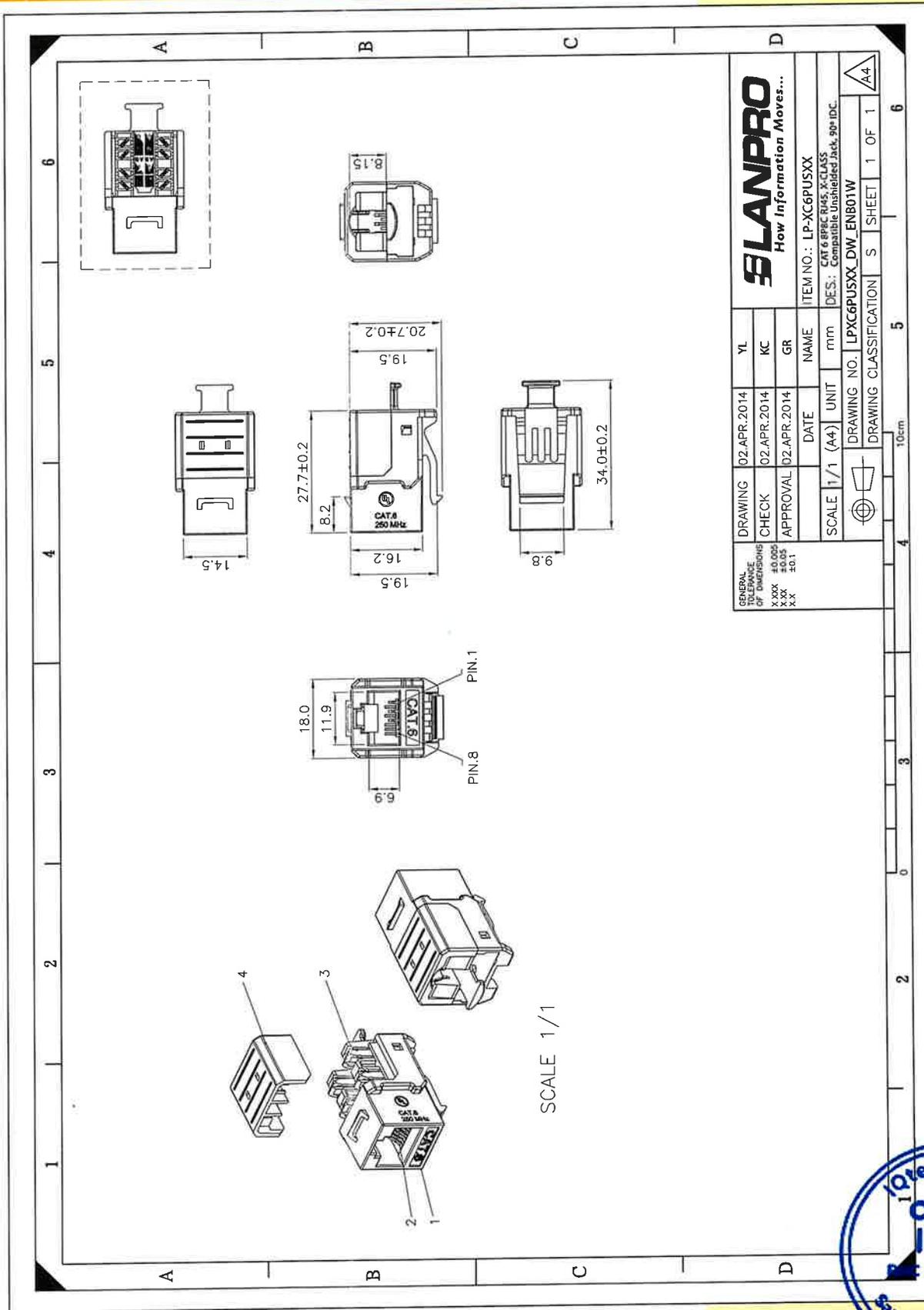
Material	RJ45 Jack	Housing	ABS + PC, UL 94V-0, With optional Color	
		Contact Bracket	PBT+Glasss Fiber, UL 94V-0 with Black Color	
	RJ45 Contact	Material	Phosphor Bronze with Nickel Plating	
		Finish	50 Micro-inch Gold Plating on plug contact area	
	IDC	Housing	PC+Glass Fiber, Grey Color(RAL7035), UL 94V-2	
		Terminales	Phosphor Bronze with Tin Plating	
	IDC Cap	PC 1250Y UL 94 V-2, Transparent Black		
PCB	FR4, UL 94V-0			
Performance	T568A & T568B wiring			
	Insertion Force	20N max. (IEC 60603-7-4)		
	Retention Strength	7.7 Kg between Jack and Plug		
	Operating Temperature	-10 °C a 60 °C. (ISO/IEC 11801, ANSI/TIA 568 C.2)		
	Life (Mating Cycles)	Jack	750 Cycles min. (ISO/IEC 11801, IEC 60603-7-4)	
		IDC	250 Cycles min. Suitable for 23-26 AWG stranded and solid wire, compatible with 110 punch down tool	
	The CAT 6 transmission performance is in compliance with the ANSI/TIA 568C.2 standard			

1	Keystone Jack, CAT 6, UTP type, 90° punching direction, for connecting applications of communication ports in working area.	
2	Compact and practical design.	
3	Fastener hats ensure proper fixation of IDC clips.	
4	Compliance of ISO/IEC 11801. ANSI/TIA/EIA 568-B.2 CAT 6 for both T568-A and T568-B punching sequences.	
5	UL® and ULc® certified under number# DUXR.E329018.	
6	Connection type: FCC Connector for RJ45 patch cord and IDC for 4-pair CAT 6 cables.	
7	Fit for CAT 6 general cable distribution system. Backward compatible with CAT 5e and CAT 5 systems.	
8	Punch tool: 110 & Kröne.	
9	Dimensions	Width: 17.0 mm
		Heigth: 19.6 mm.
		Depth: 28.0 mm.
10	Colors	WH= White; BK= Black; OR=Orange; RD= Red; GN= Green, BL= Blue; GR= Grey; YL= Yellow; V= Violet

Note: The microinch (µ in) is a common imperial unit of distance equal to one millionth of an inch. 25.4 nanometers (nm), or 1 µ in = 0.0254 µm.



**B Dimensional Diagram:**



<b>GENERAL TOLERANCES</b> OF DIMENSIONS XXX ±0.006 XXX ±0.05 XX ±0.1	DRAWING	02.APR.2014	YL	<b>LANPRO</b> How Information Moves...
	CHECK	02.APR.2014	KC	
	APPROVAL	02.APR.2014	GR	
	SCALE	1/1 (A4)	UNIT	
	DATE		NAME	ITEM NO.: LP-XC6PUSXX
				DES.: CAT 6 X-CLASS Compatible Unshielded Jack, 90° IDC.
				DRAWING NO. LPXC6PUSXX_DW_ENB01W
				DRAWING CLASSIFICATION
				SHEET 1 OF 1



**C How to Order:**

<b>LP-XC6PUSWH</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, White Color.
<b>LP-XC6PUSBK</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Black Color.
<b>LP-XC6PUSOR</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Orange Color.
<b>LP-XC6PUSRD</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Red Color.
<b>LP-XC6PUSGN</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Green Color.
<b>LP-XC6PUSBL</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Blue Color.
<b>LP-XC6PUSGR</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Gray Color.
<b>LP-XC6PUSYL</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Yellow Color.
<b>LP-XC6PUSIV</b>	8000 Series CAT 6 8P8C RJ45, X-Class Robotic Manufactured Keystone® Compatible Unshielded Jack, 90° IDC, Ivory Color.

*LanPro is continuously improving its products and reserves the right to change specifications and availability without prior notice.*

