CJC. GRUPO COMERCIAL
E INVERSIONES
JAVIER CRUZ, SRL

Marca, modelo, características y especificaciones de lo ofertado

3. Solución Técnica Propuesta

A. Núcleo de procesamiento y almacenamiento

Ítem 1. Características Destacadas iDS-7732NXI-M4/X

Descripción General

El iDS-7732NXI-M4/X es un grabador de vídeo en red (NVR) de la serie DeepinMind de Hikvision, diseñado con algoritmos de aprendizaje profundo (Deep Learning) integrados. Este equipo supera los estándares convencionales al ofrecer capacidades avanzadas de análisis de video inteligente, reconocimiento facial de alta velocidad y protección perimetral precisa, cumpliendo y excediendo los requerimientos técnicos de la Licitación JCE-CCC-LPN-2025-0008.
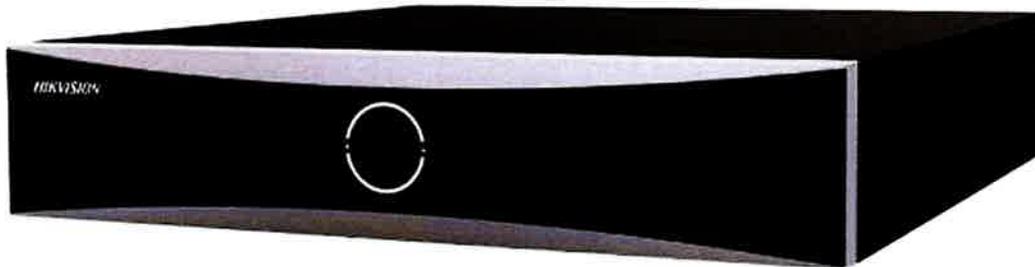
1. **Potencia de Análisis (DeepinMind):**
- Permite la estructuración de video para extraer características de personas (color de ropa, género, accesorios) y vehículos, facilitando búsquedas forenses rápidas (AcuSearch).
- Filtrado de falsas alarmas en protección perimetral, distinguiendo humanos y vehículos de otros objetos (lluvia, animales, hojas).

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2. **Rendimiento de Video:**
- Soporta cámaras de hasta 32 MP.
- Tecnología de salida 8K, asegurando la compatibilidad con monitores de ultra alta definición para centros de monitoreo modernos. }

3. **Conectividad y Seguridad:**
- Doble interfaz de red Gigabit para redundancia o separación de redes.
- Cumple con estándares de ciberseguridad y certificaciones internacionales (UL, CE, FCC).

Contenido del Paquete

- 1x NVR Hikvision iDS-7732NXI-M4/X
- Cable de alimentación
- Mouse USB
- Kit de montaje en Rack (Orejas de rack)
- Guía de inicio rápido
- Cables SATA para discos duros

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision iDS-7732NXI-M4/X)	Cumplimiento
Canales	32 Canales IP	**Soporta hasta 32 canales IP** con ancho de banda de entrada de hasta 320 Mbps.
Resolución y Salida	Salida HDMI hasta 8K (7680×4320)	**Salida HDMI 1:8K (7680x4320)/30Hz,** 4K/60Hz. Salida HDMI 2 independiente.

Inteligencia Artificial (NVR)	DeepinMind, Rec. Facial, Protección Perimetral, Estructuralización	Motor **DeepinMind** integrado. Soporta Reconocimiento Facial, Protección Perimetral (Human/Vehicle), Estructuralización de Video y AcuSearch.
Reconocimiento Facial	Comparación, Captura, Búsqueda	**Detección y analítica facial:** Comparación de imágenes, captura de rostros y búsqueda inteligente
Bibliotecas Faciales	Hasta 16 bibliotecas, 100,000 rostros	**Capacidad:** Hasta 16 bibliotecas de imágenes de rostros, con un total de hasta 100,000 imágenes.
Velocidad Comparación	48 imágenes por segundo	**Velocidad:** Soporta alarmas de comparación facial en tiempo real.
Decodificación	H.265 / H.265+ / H.264 / H.264+	Soporta formatos **H.265+/H.265/H.264+/H.26z.** Capacidad de decodificación hasta 32-ch @1080po 2-ch @ 32 MP.
Almacenamiento	4 Interfaces SATA (Hasta 16TB c/u)	**4 interfaces SATA** para HDD de 3.5". Soporta hasta **16 TB** de capacidad por cada disco.
Red y Protocolos	TCP/IP, DHCP, IPv4/IPv6, ONVIF, ISAPI	Soporta **TCP/IP, DHCP, IPv4, IPv6, RTSP, ONVIF (Profile S/G), ISAPI, SDK, ISUP,** entre otros. 2

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		Interfaces RJ-45 10/100/1000 Mbps.

Ítem 2. Características Destacadas iDS-7716NXI

Descripción General

El iDS-7716NXI-M4/X es un grabador de video en red (NVR) de 16 canales de la serie DeepinMind de Hikvision. Al igual que su contraparte de mayor capacidad, este equipo incorpora algoritmos de aprendizaje profundo para ofrecer análisis de videointeligente de nivel profesional en un formato más compacto, cumpliendo estrictamente con las especificaciones del Ítem 2 de la Licitación JCE-CCC-LPN-2025-0008.
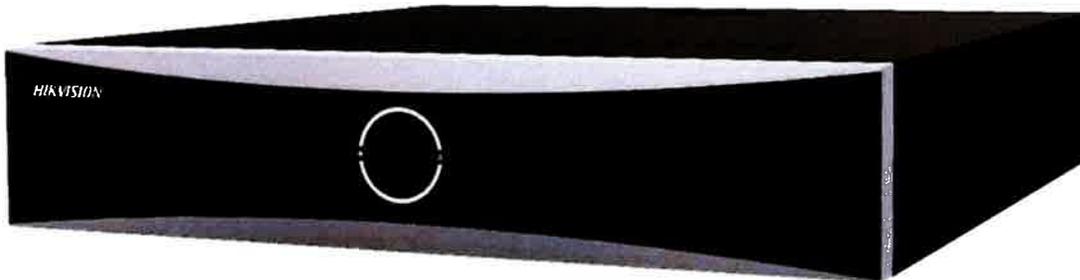
1. **Tecnología DeepinMind para 16 Canales:**
- Ofrece la misma potencia analítica que los modelos superiores, permitiendo protección perimetral en hasta 16 canales para reducir falsas alarmas (clasificación humano/vehículo).
- Reconocimiento facial en tiempo real para control de acceso y seguridad crítica en las oficinas de la JCE.

2. **Visualización Ultra HD (8K):**

- Puerto HDMI 1 nativo en 8K, ideal para visualizar múltiples cámaras de alta resolución (4MP/8MP) en una sola pantalla sin pérdida de calidad.

3. **Eficiencia de Almacenamiento:**
- Utiliza compresión H.265+ que reduce el consumo de ancho de banda y espacio en disco hasta en un 75% comparado con H.264.

Contenido del Paquete

- 1x NVR Hikvision iDS-7716NXI-M4/X
- Cable de alimentación
- Mouse USB
- Kit de montaje en Rack (Orejas de rack para gabinete estándar de 19")
- Guía de inicio rápido
- Cables de datos y energía para Discos Duros

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación dle Equipo Oferta (Hikvision iDS- 7716NXI-M4/X)	Cumplimiento
Canales	16 Canales IP	**Soporta 16 canales IP** con un ancho de banda de entrada de hasta 256 Mbps.
Resolución y Salida	Salida HDMI 8K y HDMI 2 4K	**Salida HDMI 1:** 8K (7680 × 4320)/30Hz. Salida HDMI 2: 4K (3840 × 2160)/60Hz independiente.
Inteligencia Artificial (NVR)	DeepinMind, Rec. Facial, Protección Perimetral	Motor **DeepinMind** dual. Soporta Reconocimiento

		Facial, Protección Perimetral, Estructuralización de Video y AcuSearch.
Reconocimiento Facial	Comparación, Captura, Búsqueda	**Analítica facial avanzada:** Comparación de rostros, captura y búsqueda de atributos faciales.
Bibliotecas Faciales	16 bibliotecas, 100,000 rostros	**Capacidad:** Hasta 16 bibliotecas de imágenes y hasta 100,000 imágenes de rostros en total.
Velocidad Comparación	48 imágenes por segundo	**Velocidad:** Soporta comparación de imágenes de rostros a una velocidad de 48 imágenes por segundo.
Decodificación	H.265 / H.265+ / H.264+	Soporta formatos **H.265+/H.265/H.264+/H.264.** Capacidad de decodificación de hasta 16-ch@4MP o 2-ch @ 32 MP.
Almacenamiento	4 Interfaces SATA (16TB c/u)	**4 interfaces SATA** para HDD de 3.5". Soporta hasta **16 TB** de capacidad por cada disco (Total máx. 64TB).
Red y Protocolos	TCP/IP, DHCP, IPv4/IPv6, ONVIF	Soporta **TCP/IP, DHCP, IPv4, IPv6, RTSP, ONVIF (Profile S/G), ISAPI, SDK, ISUP.** 2 Interfaces RJ-45 Gigabit.

B. CAPTURA INTELIGENTE DE IMÁGENES

Ítem 3. Cámaras Domos IP 4MP con tecnología AcuSense

Descripción General

La **DS-2CD3146G2-ISU** es una cámara domo fija de 4MP de la serie Ultra (Project) de Hikvision. Este modelo está diseñado específicamente para cumplir con exigentes estándares de licitación, incorporando tecnología **DarkFighter** para un rendimiento superior en baja iluminación (0.003 Lux @ F1.4) y tecnología **AcuSense** para la clasificación de objetivos humanos y vehículos, reduciendo falsas alarmas.

1. **Rendimiento DarkFighter (F1.4):**
- A diferencia de las cámaras estándar con lentes F2.0, este modelo cuenta con una apertura **F1.4** que permite el paso de mucha más luz, cumpliendo estrictamente con el requisito de **0.003 Lux** sin necesidad de iluminación suplementaria excesiva.

2. **Salida de Voltaje Auxiliar (Power Output):**

- Cumple con el requisito específico y poco común del pliego de tener una **salida de 12 VDC (100 mA)**. Esto permite que la cámara alimente un dispositivo externo pequeño (como un sensor o micrófono activo), simplificando el cableado.

3. **Análisis Inteligente AcuSense:**
- Filtra alarmas generadas por hojas, viento o animales, enviando al centro de monitoreo solo eventos relevantes (humanos/vehículos), optimizando el ancho de banda y el almacenamiento en los NVRs Hikvision ofertados.

Contenido del Paquete

- 1x Cámara Domo IP Hikvision DS-2CD3146G2-ISU(2.8mm)
- Plantilla de perforación Tornillos y tarugos de montaje
- Conector estanco para cable de red
- Guía de inicio rápido
- Llave Torx (para apertura del domo antivandálico)

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision DS- 2CD3146G2-ISU)	Cumplimiento
Tipo y Resolución	Domo IP, 4MP (2688x1520)	4 MP (2688 × 1520) @30fps. Formato Domo Antivandálico.
Sensor de Imagen	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS.
Iluminación Mínima	Color: 0.003 Lux @ F1.4	Powered-by-DarkFighter: Color: **0.003Lux @ (F1.4, AGC ON), B/W: 0 LuxconIR**

Lente y Apertura	Fijo 2.8mm, F1.4	Lente Fijo 2.8mm, con apertura ampliada F1.4 para máxima captación de luz.
Ángulo de Visión	Ajuste Pan 0-355°, Tilt 0-75°	3 Axis Adjustment: Pan: 0° a 355°, Tilt: 0° a 75°, Rotate: 0° a 355°.
Compresión	H.265/H.264/H.265+	Soporta H.265+/H.265/H.264+/H.264. Tasa de bits: 32 Kbps a 8 Mbps.
Imagen (WDR)	WDR 120 dB	120 dB True WDR (Wide DynamicRange).
Audio	No especificado explícitamente pero ítem pide "Alarma"	Micrófono Incorporado (Modelo-U). Audio 1 in / 1 out.
Alarmas	1 Input, 1 Output (12VDC, 30mA)	1 Entrada, 1 Salida (max. 12 VDC, 30mA).
Salida de Alimentación	Salida 12 VDC, max. 100 mA	Power Output: 12 VDC, max. 100mA (Para alimentar micrófonos externos o sensores PIR).
Protección	No especificado en resumen, pero estándar IP67	IP67 (Resistente al agua/polvo) e IK10 (Antivandálico).
Inteligencia (Evento)	AcuSense (Humano/Vehículo)	AcuSense: Clasificación de objetivos humanos y vehículos basada en Deep Learning.

Ítem 4. Cámaras Bullet IP 4MP (DS-2CD2043G2-I) con visión nocturna de 40m.

Descripción General

La **DS-2CD2043G2-I** es una cámara tipo bala (bullet) de 4MP con tecnología AcuSense, diseñada para exteriores. Incorpora algoritmos de aprendizaje profundo (Deep Learning) que permiten clasificar objetivos humanos y vehículos, reduciendo drásticamente las falsas alarmas enviadas al centro de monitoreo. Sudiseño compacto y resistente (IP67) la hace ideal para perímetros y áreas abiertas.

1. **Tecnología AcuSense (Deep Learning):**
- La característica más crítica del ítem se cumple a la perfección: el equipo enfoca las alarmas en objetivos reales (personas y vehículos), ignorando movimientos irrelevantes como lluvia, hojas o animales pequeños.

2. **Calidad de Imagen:**
- Resolución 2688 × 1520 @ 30fps combinada con WDR de 120dB, garantizando imágenes claras incluso en condiciones de contraluz fuerte (ej. entradas de edificios o áreas con sombras pronunciadas).

3. **Eficiencia y Durabilidad:**
- Compresión H.265+ para optimizar el almacenamiento en los NVRs.
- Protección IP67 garantizada para soportar las condiciones climáticas de República Dominicana.

Contenido del Paquete

- 1x Cámara Bullet IP Hikvision DS-2CD2043G2-I(2.8mm)
- Plantilla de perforación
- Tornillos y tarugos de montaje
- Conector estanco para cable de red
- Guía de inicio rápido

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision DS- 2CD2043G2-I)	Observación
Tipo y Resolución	Bullet IP, 4MP, AcuSense	**4 MP (2688 × 1520).** Formato Bullet con AcuSense.
Sensor de Imagen	1/3" Progressive Scan CMOS	**1/3" Progressive Scan CMOS.**
Iluminación Mínima	Color: 0.003 Lux @ F1.	**Color: 0.005 Lux @(F1.6,** AGCON), 0Lux con IR.
Lente y Apertura	Fijo 2.8mm, F1.4	**Lente Fijo 2.8mm,** Apertura F1.6.
Ángulo de Visión	FOV H: 103°, V: 55°	**FOV Horizontal: 103°,** Vertical: 55°, Diagonal: 122°.

Iluminador IR	Rango hasta 40 m	**Rango IR hasta 40 metros.** Longitud de Onda 850nm
Compresión	H.265/H.264/H.265+	Soporta **H.265+/H.265/H.264+/H.264.**
Imagen (WDR)	WDR 120 dB	**120 dB True WDR** (Wide DynamicRange).
Red y Protocolos	TCP/IP, HTTP, RTSP, ONVIF	Soporta **TCP/IP, RTSP, ONVIF**(ProfileS/G), **ISAPI, SDK.**
Interfaz	1 Puerto RJ45 10M/100M	**1 Puerto Ethernet RJ4510M/100M** autoadaptativo.
Evento Inteligente	Detección Movimiento (Humano/Vehículo)	**AcuSense:** Clasificación de objetivos humanos y vehículos para filtrar falsas alarmas.
Alimentación	12 VDC, PoE (802.3af)	**12 VDC ± 25%, PoE (802.3af, Class3).**
Protección	Exterior (implícito)	**IP67** (Resistente al agua y polvo).

Ítem 5. Cámaras Domos 4K DeepinView Varifocales para zonas críticas

Descripción General

La **iDS-2CD7586G2-XZHS** es una cámara domo varifocal motorizada de 8MP(4K) perteneciente a la serie DeepinViewde Hikvision. Diseñada para escenarios críticos, cuenta

con un módulo óptico de Cristal Azul (Blue Glass) que elimina el reflejo fantasma en condiciones de luz desafiantes. Integra potentes algoritmos de aprendizaje profundo para reconocimiento facial y protección perimetral, además de contar con PTZ (Pan-Tilt-Rotate-Zoom) motorizado para una instalación y ajuste remoto precisos.

1. **Módulo "Blue Glass" (Requisito Específico):**
- Esta cámara incorpora un filtro de cristal azul especial que reduce drásticamente los reflejos internos (ghosting) causados por fuentes luz fuertes directas, asegurando una imagen limpia crucial para el reconocimiento facial.

2. **Instalación Inteligente (PTRZ):**
- El sistema **PTRZ (Pan-Tilt-Rotate-Zoom)** permite a los instaladores montar la cámara y luego ajustar el ángulo de visión y la rotación de imagen de forma remota desde el software, reduciendo tiempos de mano de obra y necesidad de escaleras/elevadores para ajustes finos.

3. **Potencia Analítica (DeepinView):**
- Capaz de realizar Reconocimiento Facial en el borde (en la propia cámara) o capturar rostros con alta calidad para que el NVR los procese, optimizando la carga del sistema.

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- Detecta vibraciones (intentos de vandalismo o sabotaje físico) graciasasu sensor G incorporado.

4. **Rendimiento en Baja Luz (DarkFighter):**
- Con una apertura **F1.2** y un sensor grande de **1/1.8"**, ofrece un rendimiento en color excepcional en condiciones de casi oscuridad(0.0005 Lux), superando el requerimiento de 0.002 Lux.

Contenido del Paquete

- 1x Cámara Domo DeepinView Hikvision iDS-2CD7586G2-XZHS
- Plantilla de perforación
- Adaptador de montaje
- Accesorios de estanqueidad
- Guía de inicio rápido

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision iDS-2CD7586G2-XZHS)	Cumplimiento
Tipo y Resolución	Domo DeepinView, 4K (3840x2160)	**8 MP (3840 × 2160).** SerieDeepinView.
Sensor de Imagen	1/1.8" Progressive Scan CMOS	**1/1.8" Progressive Scan CMOS.**
Iluminación Mínima	Color: 0.002 Lux @ F1.2	**Color: 0.0005 Lux @(F1.2, AGCON), 0 Lux con IR.** (Supera el requisito).

Lente	Varifocal 2.8-12mm	**Motorizado 2.8 a 12 mm.** Enfoque Auto/Semi-auto/Manual.
Tecnología Óptica	"Blue glass module" (Reducción ghost)	**Blue glass module** incorporado para reducir el fenómeno de imagen fantasma.
Ajuste de Ángulo	Pan/Tilt/Rotate (PTRZ)	**PTRZ Motorizado:** Pan: 0°-355°, Tilt: 0°-85°, Rotate: 0°-355°. Ajuste Remoto.
Video	Main stream 50/60Hz (3840×2160)	Soporta hasta **60 fps** en 3840×2160.
Compresión	H.265+/H.265/H.264+/H.264	**Soporta H.265+/H.265/H.264+/H.264.**
Inteligencia (Evento)	Reconocimiento Facial, Movimiento	**Reconocimiento Facial,** Capturar Rostros, Protección Perimetral, Detección de Casco, Conteo, Gestión De filas.
Alarmas y Audio	1 In / 1 Out	**2 Entradas / 2 Salidas de alarma.** 1 Entrada/Salida de Audio. Micrófono Integrado.
Salida de Alimentación	12 VDC, max. 100 mA	**Power Output: 12 VDC, max. 100mA** (Cumplimiento exacto).
Detección Avanzada	Vibración, Diagnóstico Vídeo	**Sensor G integrado** para detección de vibración. Diagnóstico de calidad de video.
Protección	No especificado (Estándar IK10)	**IP67** (Exterior) e **IK10** (Antivandálico).

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Ítem 6. Cámaras Fisheye 6MP para control total de áreas abiertas gestión de colas

Descripción General

La **DS-2CD6365G1-IVS** es una cámara de red tipo "ojo de pez" (fisheye) 6 megapíxeles, diseñada para ofrecer una visión panorámica de 360° sin puntos ciegos. Perteneciente a la serie DeepinView, incorpora algoritmos de aprendizaje profundo para realizar análisis avanzados de comportamiento (conteo, mapas de calor), además de contar con un arreglo de 4 micrófonos integrados para una captura de audio inmersiva.

1. **Analíticas de Gestión de Flujo (Business Intelligence):**
- **Gestión de Colas (Queue Management):** Vital para las áreas de cedulación.Detecta cuántas personas hay en una fila y el tiempo de espera promedio, generando alertas si se superan los umbrales.

- **Mapa de Calor (Heat Map):** Visualiza las zonas de mayor tráfico dentro de las oficinas, permitiendo optimizar la distribución del espacio.

2. **Audio Inmersivo:**
- El requerimiento de **4 micrófonos integrados** se cumple perfectamente, permitiendo capturar audio desde cualquier dirección en 360°, complementando la evidencia de video.

3. **Visualización Flexible (Dewarping):**
- Permite "aplanar" la imagen esférica en múltiples vistas normales (ej. dividir la imagen 360° en 4 vistas tipo cámara fija tanto en el software de monitoreo como en la propia cámara, reduciendo la necesidad de instalar múltiples cámaras convencionales en un mismo salón.

4. **Resistencia Total:**
- Clasificación **IP67** (exterior) e **IK10** (antivandálico), asegurando integridad del equipo incluso en techos bajos al alcance de las personas.
  Contenido del Paquete

- 1x Cámara Fisheye Hikvision DS-2CD6365G1-IVS
- Plantilla de perforación
- Tornillos y tarugos de montaje
- Guía de inicio rápido
- Accesorios de instalación

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision DS-2CD6365G1-IVS)	Cumplimiento
Tipo y Resolución	Fisheye DeepinView, 6 MP	**6 MP (2560 × 2560).** Serie Deep in View Panorámica.
Sensor de Imagen	1/1.8" Progressive Scan CMOS	**1/1.8" Progressive Scan CMOS.**

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Iluminación Mínima	Color: 0.01 lux (F2.25)	**Color: 0.01 Lux @(F2.25, AGCON),** B/W: 0.005 Lux, 0 Lux con IR.
Lente y FOV	1.16mm, 180°	**Lente Fijo 1.16 mm**, FOV Horizontal y Vertical: 180° (Visión 360° entecho).
Modos de Visualización	Fisheye, Panorama, PTZ, etc.	**Soporta 20 modos de visualización:** Fisheye, 180 Panorama, 360 Panorama, 4PTZ, Fisheye + 3PTZ, etc.
Compresión	H.265+/H.265/H.264+/H.264	Soporta **H.265+/H.265/H.264+/H.264**
WDR	120 dB	**120 dB WDR (Wide Dynamic Range).**
Audio (Micrófonos)	4 Micrófonos incorporados	**Sí, 4 micrófonos incorporados** y 1 altavoz integrado (Audio Bidireccional).
Deep Learning (Colas)	Gestión de colas, Mapa de calor	**Gestión de Colas:** Detección Tiempo de espera y número de personas. Mapa de Calor: Gráfico Visitas y permanencia.
Conteo de Personas	Entran, salen, pasan	**Conteo de Personas:** Filtrado Objetivos y reportes de cruce de línea
Conectividad	1 RJ45 1000M	**1 Puerto Ethernet RJ45 10/100/1000Mbps.**
Alarmas	2 Inputs, 2 Outputs	**2 Entradas / 2 Salidas** de alarma (max. 24 VDC, 1 A).

C. INFRAESTRUCTURA DE RED Y ACCESORIOS

Ítem 7. Switch de Acceso 16 puertos

Descripción General

El **DS-3E1520HP-SI-16P2T2F** es un switch PoE Gigabit inteligente de 16 puertos, diseñado para videovigilancia. Permite una gestión visualizada de la topología de red, monitoreo de salud y notificaciones de alarma en tiempo real. Ofrece características robustas como PoE de largo alcance (hasta 300m), watchdog PoE para reiniciar cámaras colgadas y protección contra sobretensiones de 6 KV.

1. **Gestión Inteligente (Smart Managed):**
    o   A diferencia de switches no administrables, este equipo permite monitoreo remoto del estado de la red y de los dispositivos conectados a través de la plataforma Hik-Partner Pro, facilitando el mantenimiento proactivo.

2. **PoE Watchdog (Auto-Recuperación):**
    o   Funcionalidad crítica para reducir visitas técnicas. Si una cámara deja de responder, el switch lo detecta y reinicia automáticamente la alimentación del puerto específico para intentar recuperarla.

3. **Transmisión de Largo Alcance (300m):**
- Ideal para instalaciones en grandes superficies donde las cámaras pueden estar a más de los 100m estándar de distancia, eliminando la necesidad de extensores PoE intermedios.

4. **Topología de Red Visualizada:**
- Permite ver gráficamente la conexión de los dispositivos, identificar cuellos de botella y gestionar la red de manera intuitiva.

Contenido del Paquete

- 1x Switch Hikvision DS-3E1518P-SI
- Cable de alimentación
- Kit de montaje en Rack (Orejas y tornillos)
- Guía de inicio rápido

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision DS- 2CD6365G1-IVS)	Cumplimiento
Puertos Totales	16x PoE, 2x RJ45, 2x Fibra	16 × Gigabit PoE, 2 × Gigabit Fibra Óptica(SFP). (Nota: El modelo tiene 2 puertos SFP Gigabit independientes. El pliego pide 2xRJ45 adicionales, este modelo cumple con los uplinks de fibra y PoE).

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Capacidad Switching	**56 Gbps o más**	**Capacidad de Conmutación:** 56 Gbps.
Tasa Reenvío Paquetes	-	**41.66 Mpps**
Tabla MAC	**8K**	**Tabla de Direcciones MAC: 8K.**
Caché Interno	**4.1 Mbits**	**Caché Interna: 4.1 Mbits.**
Estándar PoE	**IEEE 802.3af/at**	**IEEE 802.3af, IEEE 802.3at.**
Presupuesto PoE	**225 W**	**Presupuesto de Potencia PoE: 225W.**
Potencia Máx. Puerto	**30 W**	**Máx. 30 W** por puerto.
Largo Alcance	**Puertos 1-16 hasta 300m**	**Modo Extendido:** Transmisión de hasta 300m en puertos 1-16.
Aislamiento Puertos	**Sí, para mejorar seguridad**	**Aislamiento de Puertos:** Soportado Puertos 1-16.
PoE Watchdog	**Vigilancia PoE**	**PoE Watchdog:** Detección automática y reinicio de cámaras no responsivas.
VLAN	**802.1Q, 1-4094 IDs**	**VLAN 802.1Q, configurable ID1-4094.**
Agregación Enlaces	**Estática**	**Link Aggregation: Soporta agregación estática (LACP).**

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QoS y Loop Prevention	Sí	QoS (SP/WRR), Prevención de Bucles (STP/RSTP).
Protección	-	Protección contra sobretensiones 6 KV para puertos PoE.

Ítem 8. Switch de Acceso 24 puertos

Descripción General

El **DS-3E1528HP-SI-24P2T2F** es un switch PoE Gigabit inteligente de 24 puertos de la serie Smart Managed de Hikvision. Diseñado para alta demanda de energía y transmisión de datos, ofrece un presupuesto PoE robusto de 370W, ideal para alimentar múltiples cámaras IP, incluyendo modelos PTZ o Fisheye. Integra funciones de gestión en la nube e topología de red visualizada y protección avanzada contra sobretensiones.

1. **Potencia PoE Superior (370W):**
- Este modelo ofrece un alto presupuesto energético, suficiente para alimentar las 24 cámaras simultáneamente (incluso modelos de mayor consumo como las Fisheye o Varifocales Motorizadas del proyecto) sin riesgo de caída por falta de energía.

2. **Gestión y Mantenimiento Remoto:**

- Compatible con Hik-Partner Pro para configuración y monitoreo remoto. Permite ver el estado de salud de la red, recibir notificaciones de alarma y realizar reinicios de puertos desde la app o web, reduciendo costos operativos.

3. **Transmisión de Largo Alcance (300m):**
- Al igual que el modelo de 16 puertos, permite conectar cámaras situadas a distancias superiores a los 100m estándar (hasta 300m) utilizando cable Cat.6, simplificando la infraestructura en grandes almacenes o pasillos largos.

4. **Fiabilidad Crítica (PoE Watchdog):**
- El sistema monitorea constantemente la comunicación con las cámaras. Si una cámara se "cuelga" y deja de transmitir datos, el switch reinicia automáticamente la alimentación de ese puerto para restablecer el servicio sin intervención humana.

Contenido del Paquete

- 1xSwitch Hikvision DS-3E1526P-SI
- Cable de alimentación
- Kit de montaje en Rack (Orejas y tornillos)
- Guíadeinicio rápido

Cumplimiento de Especificaciones Técnicas

Características Solicitadas	Especificaciones del Equipo Oferta (Hikvision DS 3E1526P-SI)	Cumplimiento
Puertos PoE	24x PoE, 2x RJ45, 2x Fibra	**24 × Gigabit PoE, 2 × Gigabit Fibra Óptica (SFP).** (Nota: El equipo cuenta con 2 uplinks de fibra dedicados. La capacidad de switching de 56Gbps coincide con

		la arquitectura de este modelo).
Capacidad de Switching	56 Gbps o más	**Capacidad de Conmutación: 56 Gbps**
Tasa Reenvío Paquetes	-	**41.66 Mpps**
Tabla MAC	8K	Tabla de Direcciones MAC: **8K**
Caché Interno	4.1 Mbits	Caché Interna: **4.1 Mbits.**
Estándar PoE	IEEE 802.3af/at	**IEEE 802.3af, IEEE 802.3at.**
Presupuesto PoE	370 W	Presupuesto de Potencia PoE: **370 W.**
Potencia Máx Puerto	30 W	**Máx. 30 W** por puerto
Largo Alcance	Puertos 1-24 hasta 300m	**Modo Extendido:** Transmisión de hasta **300 m** en puertos 1-24.
Aislamiento Puertos	Sí	**Aislamiento de Puertos:** Soportado para mejorar la seguridad de la red.
PoE Watchdog	Vigilancia PoE	**PoE Watchdog:** Detección automática y reinicio de cámaras no responsivas.
VLAN	802.1Q, 1-4094 IDs	**VLAN 802.1Q,** configurable ID 1-4094. Trunk y Access port.

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Agregación Enlaces	Estática	Link Aggregation: Soporta agregación estática (LACP).
Protección	-	Protección contra sobretensiones de **6 KV para puertos PoE.**

Ítem 9. Switch de Acceso 48 puertos

Descripción General

El **DS-3E1552P-SI** es un switch PoE de alta densidad con 48 puertos Gigabit, diseñado para ser el núcleo de distribución en instalaciones de seguridad grandes. Ofrece una arquitectura robusta con una capacidad de conmutación de 104 Gbps y un presupuesto energético de 470W, permitiendo alimentar una gran cantidad de cámaras simultáneamente mientras gestiona el tráfico de video de alta definición sin latencia.

1. **Arquitectura de Alto Rendimiento:**
- Con una capacidad de conmutación de 104 Gbps y una tasa de reenvío de 77.38 Mpps, este switch garantiza que no habrá cuellos de botella incluso cuando las 48 cámaras estén transmitiendo video en 4K simultáneamente.

2. **Uplinks Flexibles (Cobre y Fibra):**

- Dispone de 4 puertos de enlace ascendente (Uplink) independientes (2 de cobre y 2 de fibra), lo que permite conectarlo a servidores locales y, al mismo tiempo, realizar enlaces de fibra óptica a larga distancia hacia el cuarto de control principal o IDF.

3. **Gestión Centralizada y Visual:**
- Permite la visualización de la topología de red completa. El administrador puede ver qué cámara está conectada a qué puerto, su consumo en tiempo real y el estado del enlace, simplificando drásticamente la resolución de problemas en una red de esta magnitud.

4. **Fiabilidad Energética (470W):**
- Su fuente de alimentación interna robusta ofrece 470W de potencia PoE total, asegurando estabilidad energética para dispositivos de alto consumo.

Contenido del Paquete

- 1xSwitch Hikvision DS-3E1552P-SI
- Cable de alimentación AC
- Kit de montaje en Rack (Orejas y tornillos)
- Guíadeinicio rápido
- Patas de goma (para uso en escritorio/estante)

Cumplimiento de Especificaciones Técnicas

Característica Solicitada	Especificación del Equipo Oferta (Hikvision DS-3E1552P-SI)	Cumplimiento
Puertos PoE	**48 x Gigabit PoE**	**48 × Puertos Gigabit PoE (RJ45).**
Puertos Uplink	**2x RJ45, 2x Fibra**	**2 × Gigabit RJ45 (Uplink) + 2 × Gigabit**

		Fibra Óptica (SFP). Total 52 Puertos.
Capacidad de Switching	**104 Gbps o más**	**Capacidad de Conmutación: 104 Gbps.**
Tabla MAC	**16K**	**Tabla de Direcciones MAC: 16K.**
Caché Interno	**12 Mbits o más**	**Caché Interna: 12 Mbits.**
Estándar PoE	**IEEE 802.3af/at**	**IEEE 802.3af, IEEE 802.3at.**
Presupuesto PoE	**470 W**	**Presupuesto de Potencia PoE: 470 W.**
Potencia Máx Puerto	**30 W**	**Máx. 30 W por puerto**
Largo Alcance	**Puertos 1-48 hasta 300 m**	**Modo Extendido: Transmisión de hasta 300 m en puertos 1-48**
Aislamiento Puertos	**Sí**	**Aislamiento de Puertos: Soportado para mejorar la seguridad.**
PoE Watchdog	**Sí (Watchdog)**	**PoE Watchdog: Detección y reinicio automático de cámaras colgadas.**
VLAN	**801.1Q, 4094 IDs**	**VLAN 802.1Q, soporta hasta 4094 VLANs.**
Agregación Enlaces	**Estática**	**Link Aggregation: Soporta agregación estática (LACP).**

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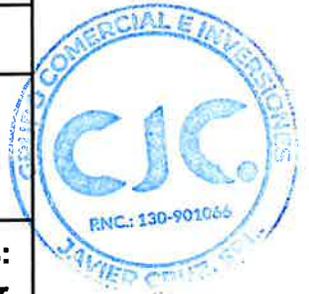Dirección: C/ Teniente Amado García #85, Mejoramiento Social, Sto. Dgo. | RNC.: 130901066 | Registro Mercantil: 89156SD

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Protección	Sí	**Loop Prevention:** STP, RSTP.

Ítem 10. Gabinete Rack de Pared de 9U

Descripción General

El **Gabinete de Pared de 9U**, con dimensiones externas de **600mm x 600mm**, está diseñado específicamente para alojar y proteger equipos de red, telecomunicaciones y videovigilancia en entornos donde el espacio es limitado. Su estructura robusta de acero laminado en frío asegura la máxima protección para componentes críticos como switches, grabadoras NVR/DVR y paneles de parcheo.

1. **Capacidad y Dimensiones:**
- **9U de Espacio Útil:** Proporciona un amplio espacio vertical para el montaje de equipos estándar de 19 pulgadas.

- **Ancho 600mm (23.5") y Profundidad Externa 600mm (23.5"):** Estas dimensiones generosas son ideales para acomodar equipos más profundos, como ciertos modelos de UPS o switches de alta densidad, permitiendo una gestión de cables eficiente en la parte trasera.

2. **Materialidad de Alta Resistencia:**
- **Material:** Estructura fabricada en acero laminado en frío, tratada con procesos desengrasantes para asegurar durabilidad y resistencia contra la corrosión, polvo y desgaste mecánico.

3. **Acceso y Seguridad Visual:**
- **Puerta Abatible de Vidrio de 4mm, Opaco:** La puerta frontal de vidrio templado ofrece seguridad y permite la supervisión visual del estado de los indicadores LED de los equipos sin necesidad de abrir el gabinete. El acabado opaco brinda un nivel de discreción estética.

4. **Instalación y Flexibilidad:**
- **Diseño De Pared (Wall-Mount):** Su construcción optimizada para montaje en pared ahorra espacio valioso en el suelo, haciéndolo perfecto para armarios de telecomunicaciones (closets IDF) o áreas de distribución de videovigilancia.

Ítem 11. Gabinete Rack de Pared de 7U

Descripción General

El **Gabinete de pared de baja capacidad (7U),** diseñado para albergar switches, grabadoras **NVR/DVR** y equipos de red en armarios de telecomunicaciones (IDFs) donde el espacio es limitado. Proporciona protección física y un punto de concentración de red estructurada.

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1. **Capacidad y Dimensiones:**
- **7U de Espacio Útil:** Proporciona un amplio espacio vertical para el montaje de equipos estándar de 19 pulgadas.
- **Ancho 600mm (23.5") y Profundidad Externa 600mm (23.5"):** Estas dimensiones generosas son ideales para acomodar equipos más profundos, como ciertos modelos de UPS o switches de alta densidad, permitiendo una gestión de cables eficiente en la parte trasera.

2. **Material:** Estructura fabricada en acero laminado en frío, tratada con procesos desengrasantes para asegurar durabilidad y resistencia contra la corrosión, polvo y desgaste mecánico.

3. **Puerta:**
- **Puerta Abatible de Vidrio de 4mm, Opaco:** La puerta frontal de vidrio templado ofrece seguridad y permite la supervisión visual del estado de los indicadores LED de los equipos sin necesidad de abrir el gabinete. El acabado opaco brinda un nivel de discreción estética.

4. **Instalación:**

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- **Diseño De Pared (Wall-Mount):** Su construcción optimizada para montaje en pared ahorra espacio valioso en el suelo, haciéndolo perfecto para armarios de telecomunicaciones (closets IDF) o áreas de distribución de videovigilancia.

Ítem 12. UPS APC Smart-UPS 1500VA (SMT1500RM2UC)

Descripción General

El **APC Smart-UPS SMT1500RM2UC** es una Solución de Alimentación Ininterrumpida (UPS) de línea interactiva, de alto rendimiento, diseñada para proteger equipos de red, servidores y grabadores de videovigilancia contra interrupciones, fluctuaciones y sobretensiones. Con una capacidad de **1500 VA** y un factor de potencia corregido, proporciona **1.0 kW** de potencia de salida sinusoidal pura, lo que es esencial para la estabilidad y longevidad de los equipos electrónicos sensibles.

1. **Potencia Confiable:**
- Ofrece 1500 VA / 1.0 kW de potencia, ideal para mantener en funcionamiento switches de acceso de 48 puertos y grabadores de video (NVR) durante cortes de energía breves, permitiendo un apagado seguro o la transición a un generador.

2. **Onda Sinusoidal Pura:**

- Proporciona una salida de onda sinusoidal pura, que es la forma de onda eléctrica preferida por los equipos electrónicos sensibles y servidores, asegurando su rendimiento óptimo y evitando fallos de alimentación que pueden causar corrupción de datos o daños al hardware.

3. **Voltaje de Entrada/Salida:**
- Trabaja con un **voltaje de 120V** tanto en la entrada como en la salida, haciéndolo totalmente compatible con la infraestructura eléctrica estándar de la República Dominicana.

4. **Factor de Forma 2U Rack Mount:**
- Su diseño **Rack Height 2U** lo hace perfecto para la instalación en los gabinetes de pared **(600x600mm)** o racks de piso, maximizando la eficiencia del espacio vertical.

5. **Smart Connect y Conectividad:**
- Incluye el puerto **Smart-Slot y conectividad USB**, además de la funcionalidad Smart Connect para monitoreo remoto basado en la nube. Esto permite a los administradores de red gestionar el estado del UPS de manera centralizada sin necesidad de software de gestión complejo.

6. **Batería de Reemplazo:**
- Utiliza la **batería de reemplazo APCRBC133**, que es fácilmente accesible y reemplazable por el usuario, minimizando el tiempo de inactividad durante el mantenimiento.

7. **Display LCD:**
- Cuenta con una **pantalla LCD** intuitiva en el panel frontal, que proporciona información en tiempo real sobre el estado de la batería, la carga, las alarmas y las condiciones de la energía de la red.

Ítem 13. Discos Duros de 8TB para Videovigilancia (Western Digital)

Descripción General

El **Disco Duro Western Digital de 8TB** (ej. línea WD Purple) es una unidad de almacenamiento de alto rendimiento y confiabilidad diseñada específicamente para sistemas de **videovigilancia ininterrumpida (24/7).** Su arquitectura está optimizada para manejar flujos de datos intensivos y secuenciales provenientes de múltiples cámaras de alta resolución, garantizando la escritura continua sin pérdida de fotogramas (frame loss).
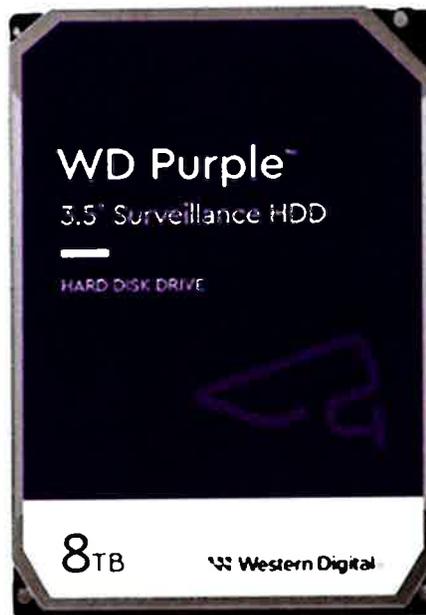
1. **Capacidad Masiva (8 TB):**
- Ofrece 8 Terabytes de capacidad, proporcionando un amplio espacio para el almacenamiento a largo plazo de grabaciones de video de alta definición (4K o superior) provenientes de una gran cantidad de cámaras.

2. **Interfaz Optimizada:**
- Utiliza el conector SATA III (6Gb/s), lo que garantiza una tasa de transferencia de datos rápida y estable entre el disco y el NVR (Network Video Recorder).

3. **Factor de Forma Estándar:**
- Formato 3.5 pulgadas, compatible con la mayoría de los NVRs, DVRs y gabinetes de servidor estándar para videovigilancia.

4. **Velocidad de Rotación (5640 RPM):**
- Con una velocidad de 5640 RPM, esta unidad equilibra de manera óptima el consumo de energía y la capacidad de rendimiento para sistemas que priorizan la escritura constante sobre la velocidad pura de acceso.

5. **Caché Dedicada (128MB):**
- La memoria caché de 128MB ayuda a mejorar el rendimiento en el almacenamiento y recuperación de datos, especialmente crucial para gestionar las ráfagas de datos de múltiples canales de video simultáneamente.

6. **Tecnología AllFrame (o Equivalente):**
- Estos discos están equipados con firmware especializado (como AllFrame en WD) que trabaja con comandos de transmisión ATA para reducir los errores de pixilación y las interrupciones de video que ocurren cuando las unidades de escritorio se usan incorrectamente como almacenamiento de vigilancia.

7. **Escritura Secuencial 24/7:**
- Están clasificados para operar continuamente, soportando la carga de trabajo constante de grabación de videovigilancia, a diferencia de los discos duros de escritorio.

Ítem 14. Cable UTP Categoría 6 (Rollo 1,000')

Descripción General

El **Cable UTP Cobre de Categoría 6 (Cat. 6)** es el medio de transmisión principal para la infraestructura de red, garantizando un rendimiento de hasta **1 Gigabit por segundo (Gbps)** y un ancho de banda de hasta **250 MHz**. Este cable está diseñado para el cableado horizontal de la instalación, optimizado para soportar las exigencias de datos de **videovigilancia y sistemas IP**, asegurando una transmisión estable y libre de interferencias.
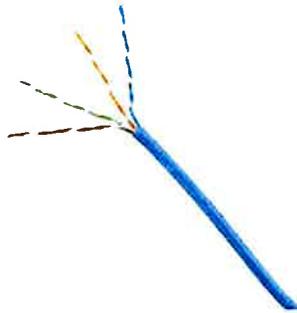
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1. **Categoría y Calibre:**
- **Categoría 6 (Cat. 6):** Cumple con los estándares de transmisión para redes Gigabit.
- **Calibre AWG 23:** El conductor de calibre 23 AWG es el estándar de oro para cableado horizontal Cat. 6, garantizando la integridad de la señal y minimizando la pérdida de inserción en tramos largos.
- **Ancho de Banda: 250hz** (250 MHz), conforme a la especificación de Categoría 6, lo que garantiza el soporte para aplicaciones de alta velocidad.

2. **Composición y Construcción:**
- **100% Cobre:** Utiliza conductores de cobre sólido puro, lo que es fundamental para el rendimiento eléctrico superior y la fiabilidad de la red, especialmente al alimentar dispositivos PoE (Power over Ethernet) como cámaras IP.
- **4 Pares:** Compuesto por cuatro pares de cables trenzados sin blindaje (UTP).

3. **Presentación y Color:**
- **Color Azul (Blue/BU):** Estandarización por color para facilitar la identificación de la categoría en el cableado.

4. **Clasificación de la Chaqueta:**
- **Chaqueta CM (Communications Multipurpose):** Clasificación de chaqueta para uso general, típicamente usada en cableado dentro de muros o pisos.

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Ítem 15. Conectores Modulares RJ-45 Categoría 6

Descripción General

El **Conector RJ-45 Categoría 6** es el componente terminal esencial para crear los patch cords (cables de conexión) y para los extremos de los cables de instalación. Diseñado para garantizar la máxima conductividad y el cumplimiento total con el **estándar Cat. 6**, este conector modular asegura una conexión de red Gigabit Ethernet confiable en toda la infraestructura de videovigilancia.

1. **Tipo de Conector:**
- RJ-45 (8P8C) modular.

2. **Categoría de Rendimiento:**
- Cat. 6, diseñado para soportar velocidades de hasta 1 Gbps y frecuencias de 250 MHz.

3. **Compatibilidad:**
- Ideal para uso con cable UTP de calibre AWG 23 sólido o trenzado, asegurando una terminación eléctrica y mecánica segura.

4. **Material:**

- Carcasa de policarbonato de alta resistencia y contactos bañados en oro para una mínima resistencia y máxima longevidad de la señal.

5. **Cantidad por Proyecto:**
- 7,200 unidades (requeridas para asegurar patch cords y tener inventario).

Ítem 16. Jack Keystone RJ-45 Categoría 6

Descripción General

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El **Jack Mini Keystone RJ-45** es el elemento de terminación en los paneles de parcheo y cajas de pared. Su diseño compacto y de herramienta tipo 110 (o similar) permite una instalación rápida y un mantenimiento sencillo. Al ser Categoría 6E (Enhanced/Mejorado), supera el requisito base de **Cat. 6**, proporcionando un margen adicional de rendimiento para la red.

1. **Referencia del Fabricante:**
- Nexxt Infrastructure - JACK MINI KEYSTONE NEXXT CAT6E BLANCO TIPO 110.

2. **Tipo de Conector:**
- RJ-45 (8P8C) Jack Hembra.

3. **Categoría de Rendimiento:**
- Cat. 6E (Enhanced), cumpliendo y superando la especificación Cat. 6.

4. **Factor de Forma:**
- Mini Keystone, compatible con paneles de parcheo de alta densidad y cajas de superficie/pared estándar.

Ítem 17. Botas de Protección para Conectores RJ-45

Descripción General

Las **Botas de Protección** para **Conector RJ-45** son accesorios esenciales que brindan alivio de tensión (strain relief) y protección física a los cables terminados. Su uso previene daños al latch del conector modular (lengüeta de seguridad) y asegura que el cable mantenga su curvatura mínima permisible en el punto de terminación, prolongando la vida útil del cableado.
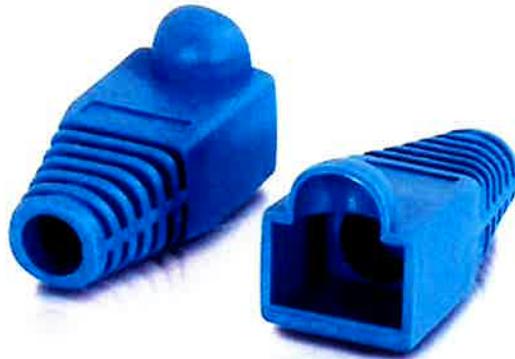
1. **Compatibilidad:**
- Diseñadas para su uso con conectores modulares RJ-45.

2. **Color:**
- Color azul, ideal para mantener la codificación de color consistente con el cable UTP Cat. 6 de instalación.

3. **Material:**
- PVC flexible y duradero.

12 de Enero de 2026
Santo Domingo, Rep. Dom.

Señores
Junta Central Electoral (JCE)
Ciudad.-

Atención : Comité de Compras y Contrataciones

Asunto : **Tiempo de Entrega**

Referencia : JCE-CCC-LPN-2025-0008 (Reapertura LPN-2025-03)
Adquisición de Equipos y Materiales de Videovigilancia

Por este medio le informamos que el tiempo de entrega de los bienes ofertados para el proceso de referencia será de **cuarenta y cinco (45) días calendarios.**

Este plazo ha sido establecido considerando los procesos de fabricación, control de calidad y logística necesarios para garantizar que los bienes cumplan con los más altos estándares.

Nos comprometemos a realizar la entrega conforme a las especificaciones técnicas y los pliegos de condiciones, garantizando calidad y cumplimiento en los estándares requeridos.
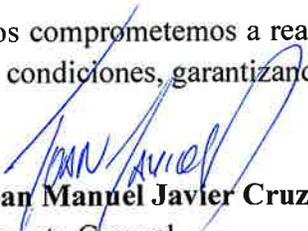
Joan Manuel Javier Cruz
Gerente General

Hangzhou Hikvision Digital Technology Co., Ltd
Provincia Zhejiang, China
08 de enero del 2026

CERTIFICACIÓN DE COMERCIALIZACION

Señores,
Junta Central Electoral - JCE
Referencia: **REF: JCE-CCC-LPN-2025-0008**
Equipos y materiales de videovigilancia Reap. LPN-2025-03

Por este medio certificamos que la empresa **Grupo Comercial e Inversiones Javier Cruz S.R.L**, con domicilio en Calle teniente Amado García, número 85, Mejoramiento Social, Santo Domingo. RNC: 130901066, es DISTRIBUIDOR AUTORIZADO para la República Dominicana de la marca HIKVISION, y está facultada para comercializar los siguientes productos correspondientes a los ítems del 1 al 9 del Pliego de Condiciones Específicas:

1. **NVR 32 canales, 8K DeepinMind (5 años de garantía)**
2. **NVR 16 canales, 8K DeepinMind (5 años de garantía)**
3. **Cámaras tipo domo IP, 4MP, AcuSense Fixed (5 años de garantía)**
4. **Cámaras tipo bullet IP, 4MP, AcuSense (2 años de garantía)**
5. **Cámaras tipo domo 4K DeepinView Varifocal, reconocimiento facial (5 años de garantía)**
6. **Cámaras Fisheye DeepinView 6MP (5 años de garantía)**
7. **Switch 16 puertos Gigabit PoE (3 años de garantía)**
8. **Switch 24 puertos Gigabit PoE (3 años de garantía)**
9. **Switch 48 puertos Gigabit PoE (3 años de garantía)**

Esta certificación se emite a solicitud del interesado para fines de participación en la licitación indicada, y tiene carácter oficial.

J.J.

James

....
James Wang / Wang Haiji
wanghaiji@hikvision.com
Country Manager de Hikvision Rep. Dominicana

Nota: Esta certificación es válida por 30 días a partir de la fecha emitida.

Para validar la veracidad de este documento, favor consultar a:

luis.holguin@hikvision.com +1 (809) 805-7689

Headquarters

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Tel: +86-571-8807-5998 Fax: +86-571-8993-5635
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Tecnical Support: support@hikvision.com

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

H.265 **8K**

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
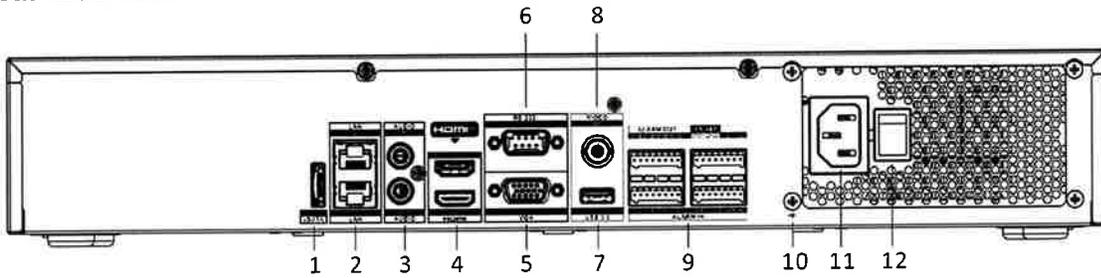- Support web access without plug-in

▪ Specification

Intelligent Analytics	
AI by NVR	Facial recognition, perimeter protection, video structuralization, AcuSearch
AI by Camera	Facial recognition, perimeter protection, video structuralization, AcuSearch, motion detection2.0, ANPR, people counting, VCA
Engine	2, each engine can run an intelligent algorithm, engine mode is adjustable
Facial Recognition	
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
AcuSearch	
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
Perimeter Protection	
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
Video Structuralization	
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
ANPR	
By Camera	All channels
Vehicle Attributes	Vehicle brand, vehicle color, vehicle type
Plate Attributes	Plate number, license plate color, license plate type
Video and Audio	
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
	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 ×

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 k Ω)

Decoding

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

Network

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 (profile S/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

Auxiliary Interface

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

General

GUI Language	English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz, Brazilian Portuguese, Indonesian
Power Supply	100 to 240 VAC, 50 to 60 Hz
Consumption	≤ 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.)

Certification

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+A1:201

▪ 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

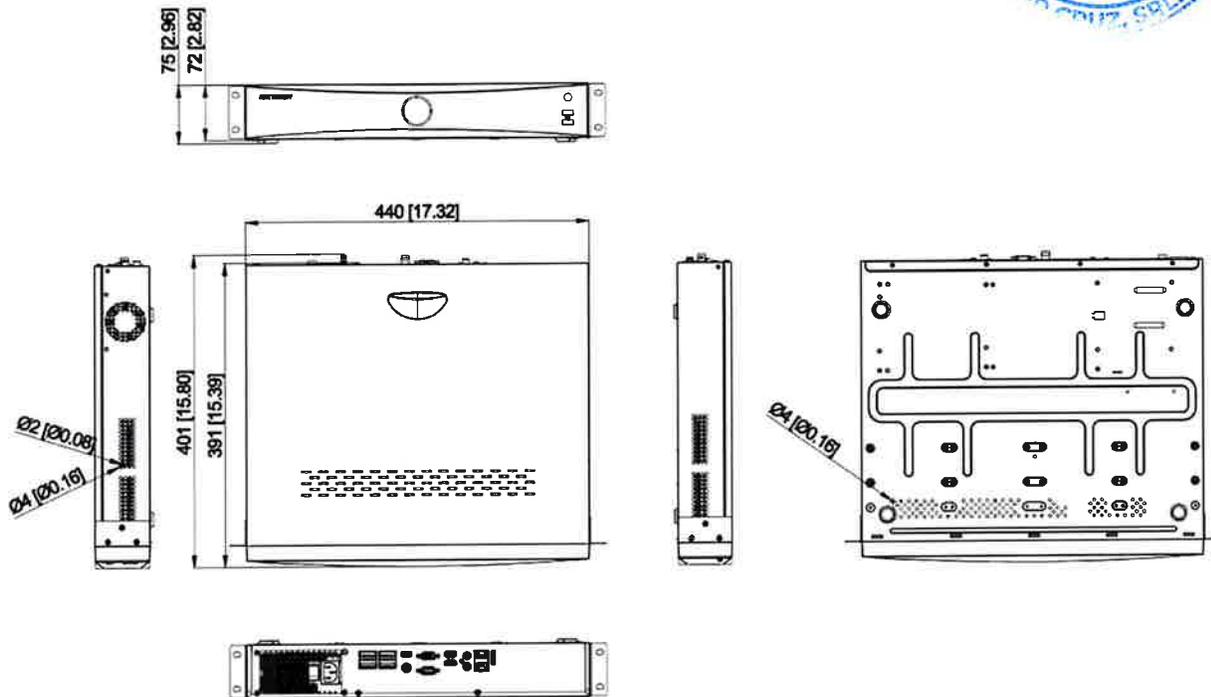# ▪ Available Model

iDS-7732NXI-M4/X

▪ Dimension

J.J.

75 [2.96] 72 [2.82]

440 [17.32]

401 [15.80] 391 [15.39]

Ø2 [Ø0.08]

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SCALE	1:1

HIKVISION

J.J.

See Far, Go Further

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

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- Up to 12-ch video structuralization

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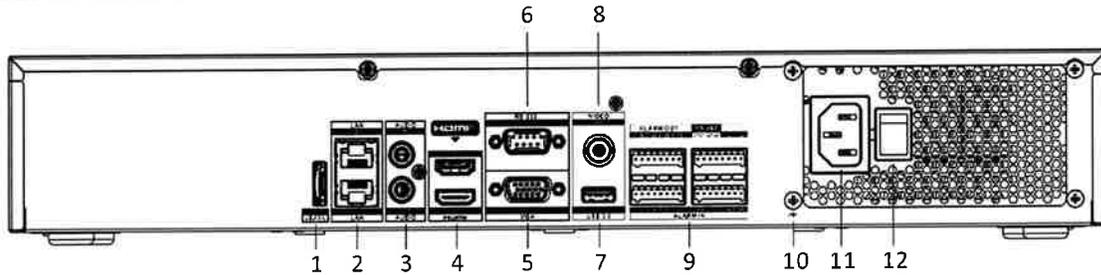| Intelligent Analytics	
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Face Picture Comparison	16-ch; Comparison speed: 32 pictures per second
ANPR	
By Camera	All channels
Plate Attributes	Plate number, license plate color, license plate type
Vehicle Attributes	Vehicle brand, vehicle color, vehicle type
Video and Audio	
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
	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 ×

VGA Output	1920 × 1080/60Hz
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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
Network	
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
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USB Interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
Alarm In/Out	16/4
General	
GUI Language	English, Russian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Turkish, Japanese, Danish, Swedish Language, Norwegian, Finnish, Korean, Traditional Chinese, Thai, Estonian, Vietnamese, Croatian, Slovenian, Serbian, Latvian, Lithuanian, Uzbek, Kazakh, Arabic, Ukrainian, Kyrgyz, Brazilian Portuguese, Indonesian
Power Supply	100 to 240 VAC, 50 to 60 Hz
Consumption	≤ 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.)
Certification	
Obtained Certification	CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS
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▪ Physical Interface

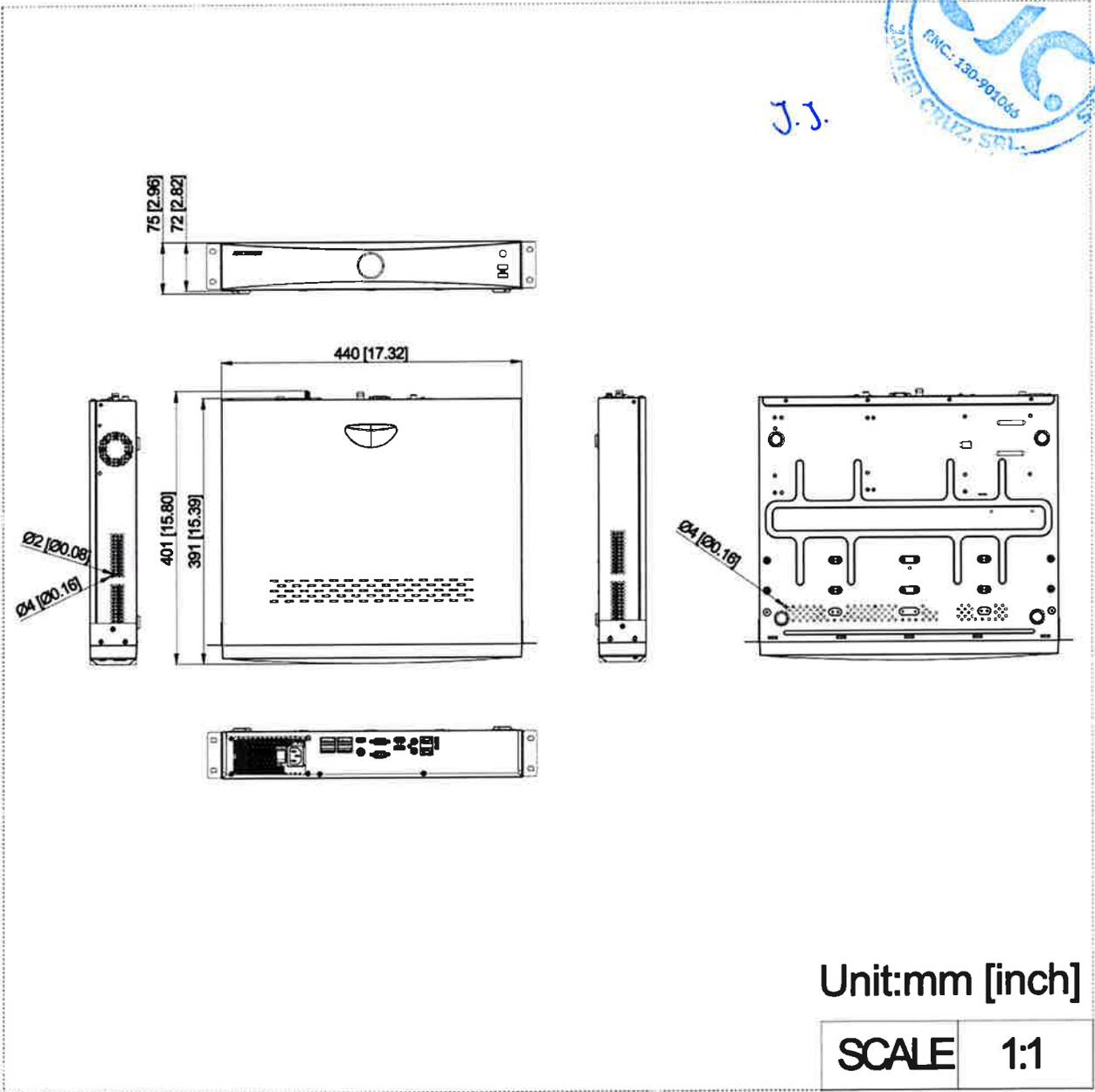| No.	Description	No.	Description
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5	VGA output	11	100 to 240 VAC power supply
6	RS-232 serial interface	12	Power switch

▪ Available Model

iDS-7716NXI-M4/X

▪ Dimension

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Ø4 [Ø0.16]

Ø4 [Ø0.16]

Unit:mm [inch]

SCALE	1:1

J.J.

See Far, Go Further

HIKVISION

DS-2CD3146G2-IS(U)
4 MP AcuSense IR Fixed Dome Network Camera

AcuSense

Powered by
Dark Fighter

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

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 120 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

Camera	
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°

Lens	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Focal Length & FOV	2.8 mm, horizontal FOV 101°, vertical FOV 54°, diagonal FOV 122°
	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

DORI	
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

Illuminator	
Supplement Light Type	IR
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm

HEOP	
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++

Video	
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
	60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)
	60 Hz: 30 fps (1280 × 720, 640 × 480, 640 × 360)
Target Cropping	Yes
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)
Fourth Stream	50 Hz: 10 fps (1280 × 720, 640 × 480, 640 × 360)

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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
e-PTZ	Support Patrol and Auto Tracking settings

Audio

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

Network

Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, 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
Web Browser	Plug-in required live view: IE 10, IE 11, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Edge 89+, Local service: Chrome 57.0+, Firefox 52.0+, Edge 89+

Image

Image Parameters Switch	Yes
Image Settings	Rotate mode,saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
Day/Night Switch	Day,Night,Auto,Schedule
Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC,HLC,3D DNR,Defog

Interface

Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 Vpp, input impedance: 4.7 KΩ, interface type: non-equilibrium, 1 output (line out), two-core terminal block, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, interface type: non-equilibrium
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

Event

Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception
Smart Event	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,audible warning

Deep Learning Function

Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
Face Capture	Yes
People Counting	Yes

General

Power	12 VDC ± 25%, 0.62 A, max. 7.5 W,Ø5.5 mm coaxial power plug,reverse polarity protection, PoE: IEEE 802.3af, Class 3, max. 9 W
Dimension	Ø121.5 mm × 97.6 mm (Ø4.8" × 3.8")
Package Dimension	150 mm × 150 mm × 141 mm (5.9" × 5.9" × 5.6")
Weight	Approx. 500 g (1.1 lb.)
With Package Weight	Approx. 700 g (1.54 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
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

Approval

EMC	CE-EMC: EN 55032: 2015, EN 61000-3-2:2019, EN 61000-3-3: 2013+A1:2019, EN 50130-4: 2011 +A1: 2014, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7

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.

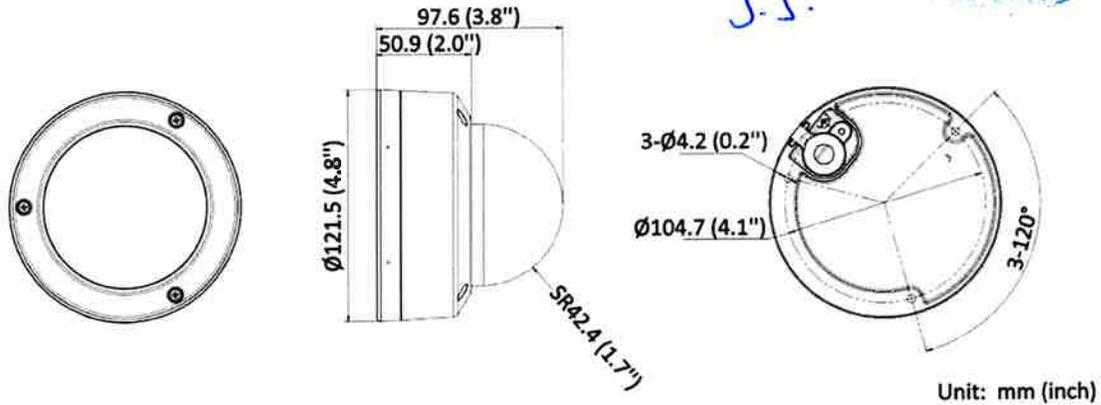| Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are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

97.6 (3.8")
50.9 (2.0")

J.J.

Ø121.5 (4.8")

SR42.4 (1.7")

3-Ø4.2 (0.2")

Ø104.7 (4.1")

3-120°

Unit: mm (inch)

- **Accessory**

- **Optional**

DS-1272ZJ-120	DS-1272ZJ-120B	DS-1271ZJ-120	DS-1275ZJ-SUS	DS-1276ZJ-SUS
Wall mount	Wall mount	Pendant Mount	Vertical pole mount	Corner mount

DS-1280ZJ-DM46	DS-2280ZJ-WA120	DS-2210ZJ-WA-120	DS-2200ZJ-WA-120	DS-2200ZJ-WAJ-120
Junction box	Junction box	Pendant Mount	Wall mount	Wall mount

J.J.

HIKVISION

DS-2CD2043G2-I(U)
4MP AcuSense Fixed Bullet Network Camera

AcuSense

WDR | H.265+ | IR | IP67 | SD

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

J.J.

▪ Specification

Camera

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°

Lens

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

DORI

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

J.J.

Illuminator

IR Range	Up to 40 m
Wavelength	850 nm

Video

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

Audio

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)

Network

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
Web Browser	Plug-in required live view: IE 10, IE 11 Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+

Image

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

Interface

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

Event

Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Face Detection	Yes

Deep Learning Function

Perimeter Protection	Line crossing detection, intrusion detection Supports human and vehicle targets classification

General

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

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.)
Approval	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); 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	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013)

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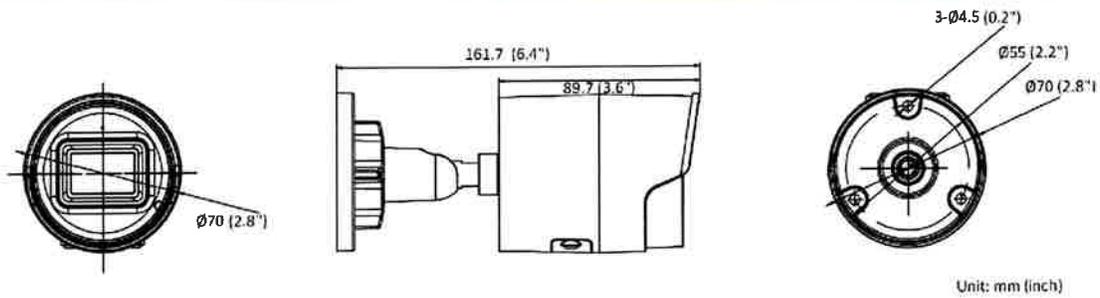DS-2CD2043G2-I (2.8/4/6 mm)
DS-2CD2043G2-IU (2.8/4/6 mm)

▪ 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.

161.7 (6.4")

89.7 (3.6")

Ø70 (2.8")

3-Ø4.5 (0.2")

Ø55 (2.2")

Ø70 (2.8")

Ø70 (2.8")

Unit: mm (inch)

- **Accessory**
- **Optional**

DS-1280ZJ-XS

Junction Box

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

DeepinView series

DarkFighter 2.0

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 leafs, 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

Camera

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°

Lens

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

DORI

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.

Illuminator

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

AI Open Platform

Model Specification	Up to 4 models, Model type: detection model, classification model, mixed model (detection model and classification model)

Video

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.

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
Audio	
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
Network	
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.

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	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

Interface

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

Event

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

Deep Learning Function

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	Detects up to 120 faces simultaneously, captures up to 40 face pictures per frame simultaneously and uploads up to 10 face pictures per second, Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°, Uploads face with background and closed-up face pictures, Supports best shot and quick shot for capture mode, Supports dynamic mosaic mask, Gets 7 face features
Face Comparison	Up to 10 face libraries. 30,000 faces for each library. 150,000 faces in total, Supports face library encryption
People Counting	Supports Multi-Dimension People Counting, Supports counting, displaying and exporting the people flow data of entering, exiting and passing by (The data is stored in the flash.), Supports real-time uploading and uploading by statistic cycle, Supports generating daily, weekly, monthly or annually reports, 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, Supports face feature deduplication, Supports people flow data replenishment
Queue Management	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 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.
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle) Support combined event alarm triggering
Hard Hat Detection	Detects up to 30 human targets simultaneously Supports up to 4 shield regions
Metadata	Intrusion detection, line crossing detection, region entrance detection, region exiting detection, face capture, multi-target-type detection

Regional People Counting	Supports up to 8 detection regions, and independent arming schedule and linkage method
	Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection
	Supports parameter settings: alarm times per exception, alarm interval, first alarm delay
	Supports searching real-time number of people
	People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading
	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)
	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)
On/Off Duty Detection	Supports up to 8 detection regions, and independent arming schedule and linkage method
	Supports 2 detection modes: absence detection, on/off duty detection
	Supports parameter settings: person on duty, absence duration

General

Power	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
Material	Aluminum alloy body
Dimension	Ø155 mm × 140.4 mm (Ø6.10" × 5.53")
Package Dimension	206 mm × 206 mm × 230 mm (8.12" × 8.12" × 9.06")
Weight	Approx. 1300 g (2.87 lb.)
With Package Weight	Approx. 1980 g (4.37 lb.)
Storage Conditions	-40 °C to 65 °C (-40 °F to 149 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-40 °C to 65 °C (-40 °F to 149 °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,anti-banding,one-key reset,mirror,password protection,flash log
Heater	Yes
Device Management	Supports adding alarm box (DS-FM2466) in the LAN to expand 6 additional input and 6 output alarm interfaces

Approval

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, RCM: AS/NZS CISPR 32: 2015, IC: ICES-003: Issue 7,

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.

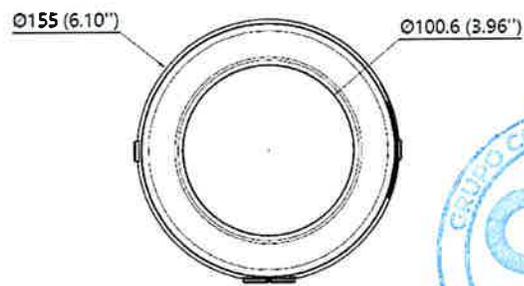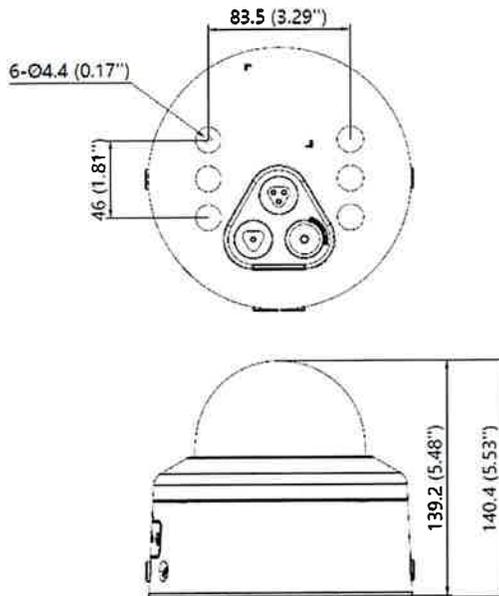| Level	Description
Top-level protection	Hikvision products at this level are equipped for use in areas where professional anti-corrosion protection is a must. Typical application scenarios include coastlines, docks, chemical plants, and more.
Moderate protection	Hikvision products at this level are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

J.J.

See Far, Go Further

J.J.

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

DeepinView series
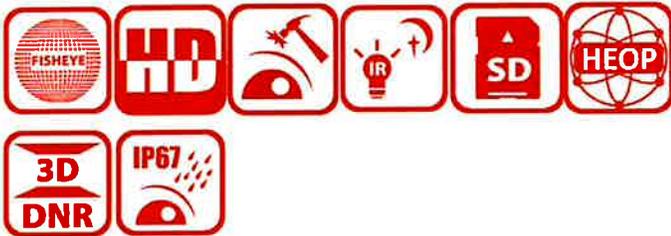
DS-2CD6365G1-IVS is a fisheye network camera capable of providing a 360-degree panoramic image of its scene.
The progressive scan CMOS sensor provides high-resolution images of up to 2560 × 2560.
Up to 20 live view display modes, designed for 3 mount types, meet various user preferences.
Three independently 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

DORI	D: 23.2 m O: 9.2 m 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	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
Sub-Stream	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
Video Compression	Main stream: H.265+/H.265/H.264+/ H.264, Sub-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

Fisheye Display

Mount Type	Support wall/table/ceiling mounting
Decoding Mode	Support hardware decoding and software decoding

Display Mode	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 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, 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 × 128 24 bit bmp format.

Interface

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 KΩ, interface type: non-equilibrium, 1 output (line out), 3.5 mm connector, max. output amplitude: 3.3 Vpp, output impedance: 100 Ω, 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
Queue Management	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 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 ± 20%, 1 A, max. 11.5 W,two-core terminal block, PoE: IEEE 802.3af, Class 3, max. 12.5 W
Material	Metal

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.)

Approval

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
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
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

J.J.

▪ 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.

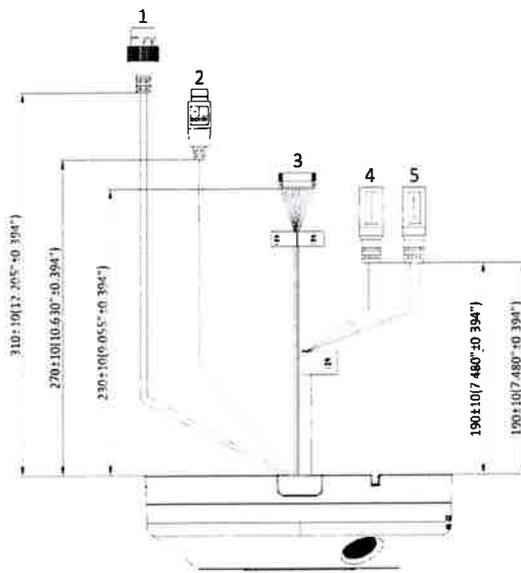This model has NO SPECIFIC PROTECTION.

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

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

▪ Physical Interface

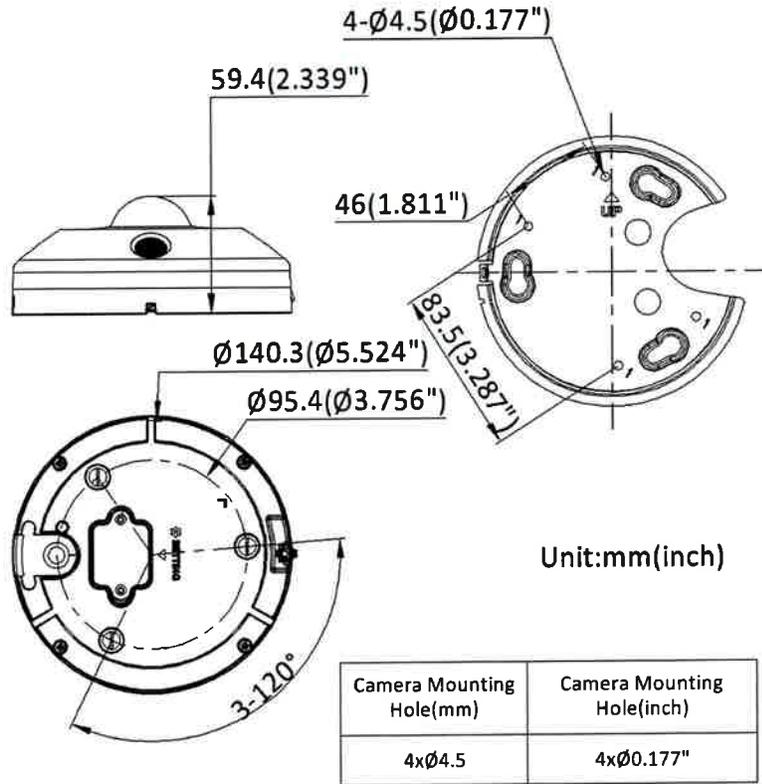| No.	Interface Description
1	Network Interface
2	Power Interface
3	Alarm Interface, RS-485
4	Audio Output Interface
5	Audio Input Interface

Unit:mm(inch)

▪ Available Model
DS-2CD6365G1-IVS(1.16mm)

- **Dimension**

4-Ø4.5(Ø0.177")

59.4(2.339")

46(1.811")

83.5(3.287")

Ø140.3(Ø5.524")
Ø95.4(Ø3.756")

Unit:mm(inch)

3-120°

Camera Mounting Hole(mm)	Camera Mounting Hole(inch)
4xØ4.5	4xØ0.177"

J.J.

- **Accessory**

- **Optional**

DS-1273ZJ-140	DS-1273ZJ-140B	DS-1271ZJ-140	DS-1275ZJ-SUS	DS-1276ZJ-SUS
Wall mount	Wall mount	Pendant Mount	Vertical pole mount	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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See Far, Go Further

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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 × 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.

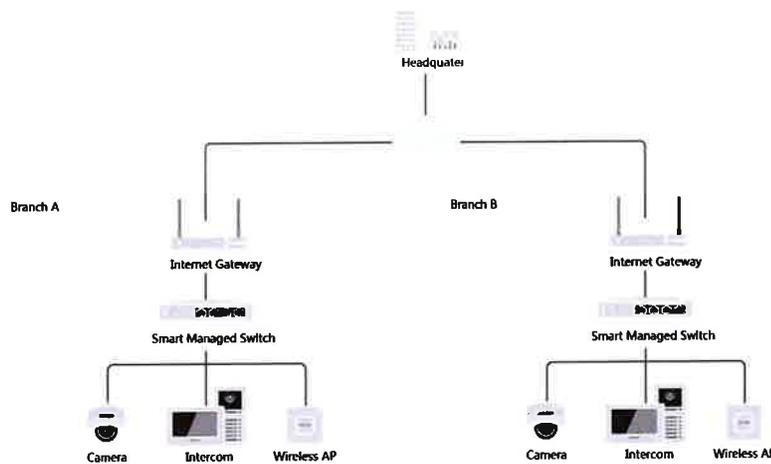|	
Loop Prevention	Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default. Support 802.1D STP. Suppport 802.1w RSTP.
QoS	QoS is used to allocate bandwidth to different services so as to provide end-to-end service quality assurance. Support port-based priority configuration. Support SP, WRR priority schedule mode.
VLAN	VLAN is used for network scale planning and network health improvement. Support 802.1Q. Configurable VLAN ID from 1-4094. Support Trunk, Access port mode. Support Max. 4094 VLAN.
HPP	Support one-click activation and remote management via Hik-Partner Pro. Functions supported: 1. Display the port rate. 2. Display the port bandwidth utilization rate. 3. Display the PoE power usage. 4. Display topology information. 5. Display the alarm status. 6. Restart ports and devices. 7. Enable port long-rage mode. 8. Remotely upgrade the device.
System Maintenance	Support device management via web. Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses. Support Super IP, which is a fixed IP address (10.180.190.200) for direct access. Support management via Hik-Central Pro. Support remote management via Hik-Partner Pro. Support cable detection. Abnormal open circuits and short circuits as well as network cable length can be detected. Supports 802.1ab LLDP for peer device discovery. Support SNMP v1/v2c for third-party management platform access. Support port mirroring for fault locating.
Port Rate-Limiting	Port rate-limiting is used for port bandwidth adjustment to prevent network congestion.
Storm Control	Storm control is used to prevent switch ports from being blocked by broadcast or multicast storms in the LAN, which may affect network communication. Support port rate limiting based on broadcast, multicast, and unknown unicast packets.
DHCP Snooping	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.
ACL	Port security strategy. Support up to 64 ACL entries. Support up to 128 configuration rules under all ACL entries.

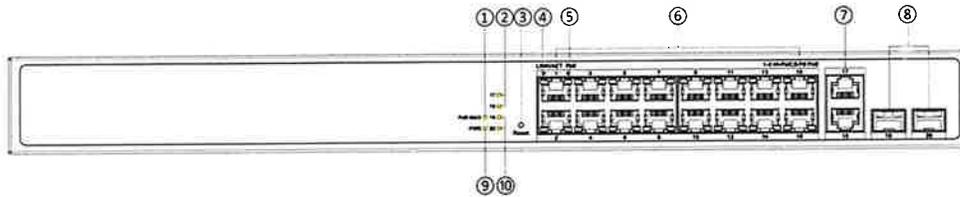| IPSG	IPSG can control the security of port access device. Support port, MAC, IP binding. Support 256 security entries.
Approval	
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020),IC (ICES-003: Issue 7:2020),RCM (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

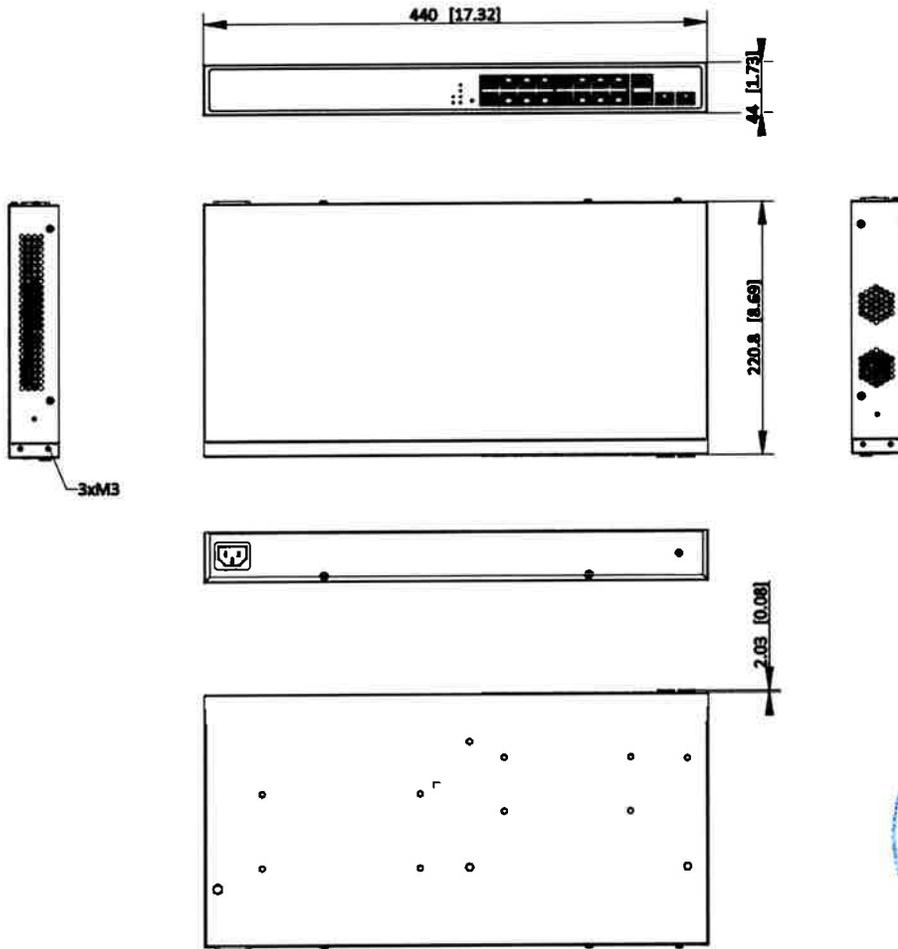# ▪ Typical Application

▪ Physical Interface

Front Panel

Rear Panel

No.	Indicator/ Port	Description
①	PoE-MAX Indicator	● Solid on/Flashing: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. ● Unlit: The switch does not supply power to a powered device (PD), or supplies power to a PD normally and its output power does not reach the upper limit. Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.
②	Gigabit RJ45 Port Indicator	● Solid on: The gigabit RJ45 port is connected. ● Flashing: The gigabit RJ45 port is transmitting data. ● Unlit: The gigabit RJ45 port is disconnected or connection is abnormal.
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	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
⑤	PoE Indicator	● Solid on: The switch provides power supply to a PD normally. ● Unlit: The switch is disconnected to a PD, or provides power supply to a PD abnormally.
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	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
⑩	Gigabit SFP Fiber Optical Port Indicator	● Solid on: The gigabit SFP fiber optical port is connected. ● Flashing: The gigabit SFP fiber optical port is transmitting data. ● Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.
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**

440 [17.32]

44 [1.73]

220.8 [8.69]

3xM3

2.03 [0.08]

Unit: mm [inch]

| SCALE | 1:1 |

J.J.

See Far, Go Further

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 × 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	Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default. Support 802.1D STP. Suppport 802.1w RSTP.
VLAN	VLAN is used for network scale planning and network health improvement. Support 802.1Q. Configurable VLAN ID from 1-4094. Support Trunk, Access port mode. Support Max. 4094 VLAN.
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.
HPP	Support one-click activation and remote management via Hik-Partner Pro. Functions supported: 1. Display the port rate. 2. Display the port bandwidth utilization rate. 3. Display the PoE power usage. 4. Display topology information. 5. Display the alarm status. 6. Restart ports and devices. 7. Enable port long-rage mode. 8. Remotely upgrade the device.
System Maintenance	Support device management via web. Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses. Support Super IP, which is a fixed IP address (10.180.190.200) for direct access. Support management via Hik-Central Pro. Support remote management via Hik-Partner Pro. Support cable detection. Abnormal open circuits and short circuits as well as network cable length can be detected. Supports 802.1ab LLDP for peer device discovery. Support SNMP v1/v2c for third-party management platform access. Support port mirroring for fault locating.
Port Rate-Limiting	Port rate-limiting is used for port bandwidth adjustment to prevent network congestion.
Storm Control	Storm control is used to prevent switch ports from being blocked by broadcast or multicast storms in the LAN, which may affect network communication. Support port rate limiting based on broadcast, multicast, and unknown unicast packets.
DHCP Snooping	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.
ACL	Port security strategy. Support up to 64 ACL entries. Support up to 128 configuration rules under all ACL entries.

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

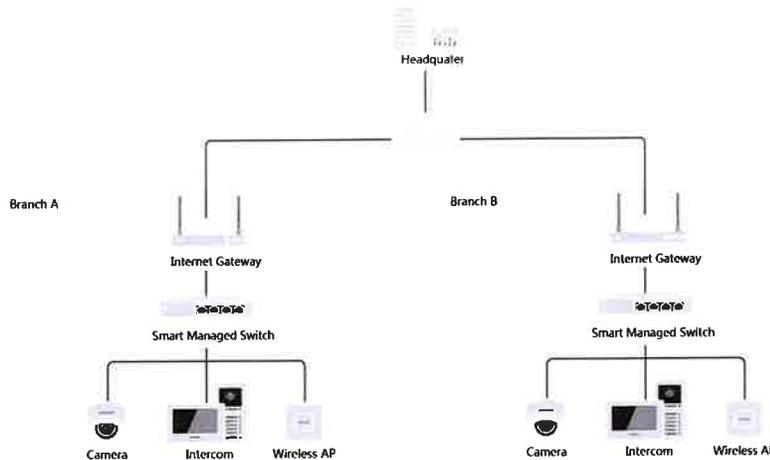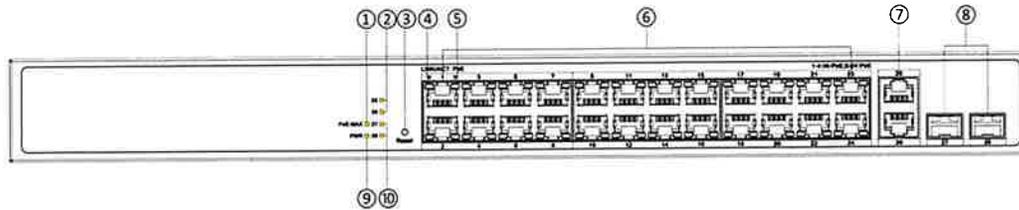| **Approval** | |
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020),IC (ICES-003: Issue 7:2020),RCM (AS/NZS CISPR 32: 2015)
Safety	CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition)), CE-LVD (EN 62368-1: 2014+A11: 2017)
Chemistry	CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)

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

▪ Typical Application

▪ Physical Interface

Front Panel
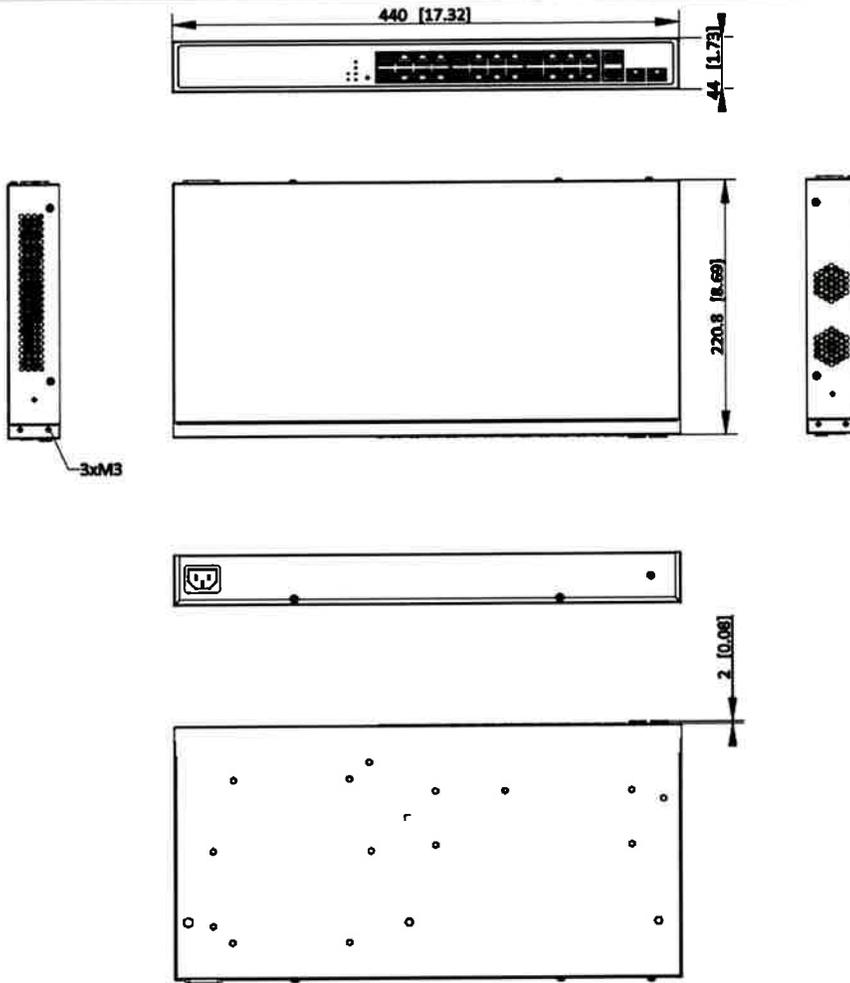

Rear Panel

No.	Indicator/ Port	Description
①	PoE-MAX Indicator	● Solid on/Flashing: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. ● Unlit: The switch does not supply power to a powered device (PD), or supplies power to a PD normally and its output power does not reach the upper limit. Note: The PoE-MAX indicator will be unlit in 5 seconds after the output power of the switch returns to normal.
②	Gigabit RJ45 Port Indicator	● Solid on: The gigabit RJ45 port is connected. ● Flashing: The gigabit RJ45 port is transmitting data. ● Unlit: The gigabit RJ45 port is disconnected or connection is abnormal.
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	● Solid on: The port is connected. ● Flashing: The port is transmitting data. ● Unlit: The port is disconnected or connection is abnormal.
⑤	PoE Indicator	● Solid on: The switch provides power supply to a PD normally. ● Unlit: The switch is disconnected to a PD, or provides power supply to a PD abnormally.
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	● Solid on: The switch is powered on normally. ● Unlit: No power supply is connected or power supply is abnormal.
⑩	Gigabit SFP Fiber Optical Port Indicator	● Solid on: The gigabit SFP fiber optical port is connected. ● Flashing: The gigabit SFP fiber optical port is transmitting data. ● Unlit: The gigabit SFP fiber optical port is disconnected or connection is abnormal.
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

440 [17.32]

44 [1.73]

220.8 [8.69]

3xM3

2 [0.08]

J.J.

Unit: mm [inch]

See Far, Go Further

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

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

- 48 x 10/100/1000M PoE Ports, 2 x gigabit RJ45, 2 x gigabit SFP

- Total PoE Power Budget 470 W

- Support energy saving mode with user-configurable plans

- Support IEEE 802.1Q VLAN tagging

- Support STP/RSTP/ERPS loop prevention with storm control

- Support cable detection to locate failure

- Support SNMP, QoS, DHCP snooping, and ARP anti-spoofing

- Support 6 kV surge protection

▪ 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. 7.5 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 52: port isolation mode to improve network security Ports in an isolation group cannot communicate with each other, but they can communicate with ports outside the isolation group.
PoE Watchdog	Ports 1 to 48: auto detect and restart the cameras that do not respond.
Link Aggregation	Link aggregation is used to aggregate multiple physical ports to form a logical port for load balancing, bandwidth expansion, and port protection. Support static link aggregation. Support 8 aggregation groups.
QoS	QoS is used to allocate bandwidth to different services so as to provide end-to-end service quality assurance. Support port-based priority configuration. Support SP, WRR priority schedule mode.

Loop Prevention	Loop prevention is used to prevent the switching network from forming loops, which will seriously affect network communication. Disabled by default. Support 802.1D STP. Support 802.1w RSTP. Support G.8032 ERPS.
VLAN	VLAN is used for network scale planning and network health improvement. Support 802.1Q. Configurable VLAN ID from 1-4094. Support Trunk, Access port mode. Support Max. 4094 VLAN.
HPP	Support one-click activation and remote management via Hik-Partner Pro. Functions supported: 1. Display the port rate. 2. Display the port bandwidth utilization rate. 3. Display the PoE power usage. 4. Display topology information. 5. Display the alarm status. 6. Restart ports and devices. 7. Enable port long-rage mode. 8. Remotely upgrade the device.
System Maintenance	Support device management via web. Support DHCP Client. Enabled by default for dynamic assignment of management IP addresses. Support Super IP, which is a fixed IP address (10.180.190.200) for direct access. Support management via Hik-Central Pro. Support remote management via Hik-Partner Pro. Support cable detection. Abnormal open circuits and short circuits as well as network cable length can be detected. Supports 802.1ab LLDP for peer device discovery. Support port mirroring for fault locating.
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IPSG	IPSG can control the security of port access device. Support port, MAC, IP binding.

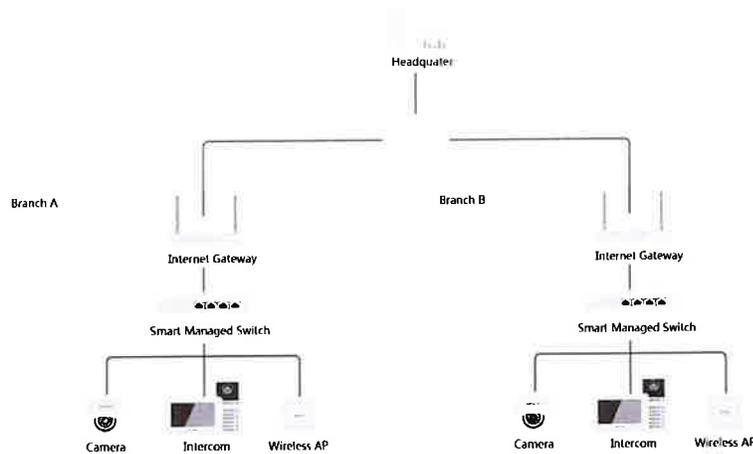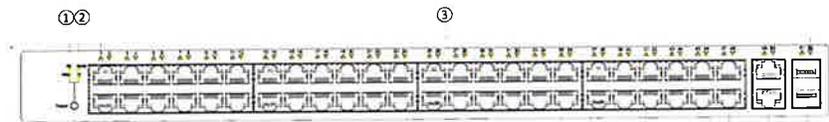| Approval	
EMC	CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020)
Safety	CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)
Chemistry	CE-RoHS (201165EU); WEEE (201219EU); Reach (Regulation (EC) No.19072006)

▪ Available Model
DS-3E1552P-SI

▪ Typical Application

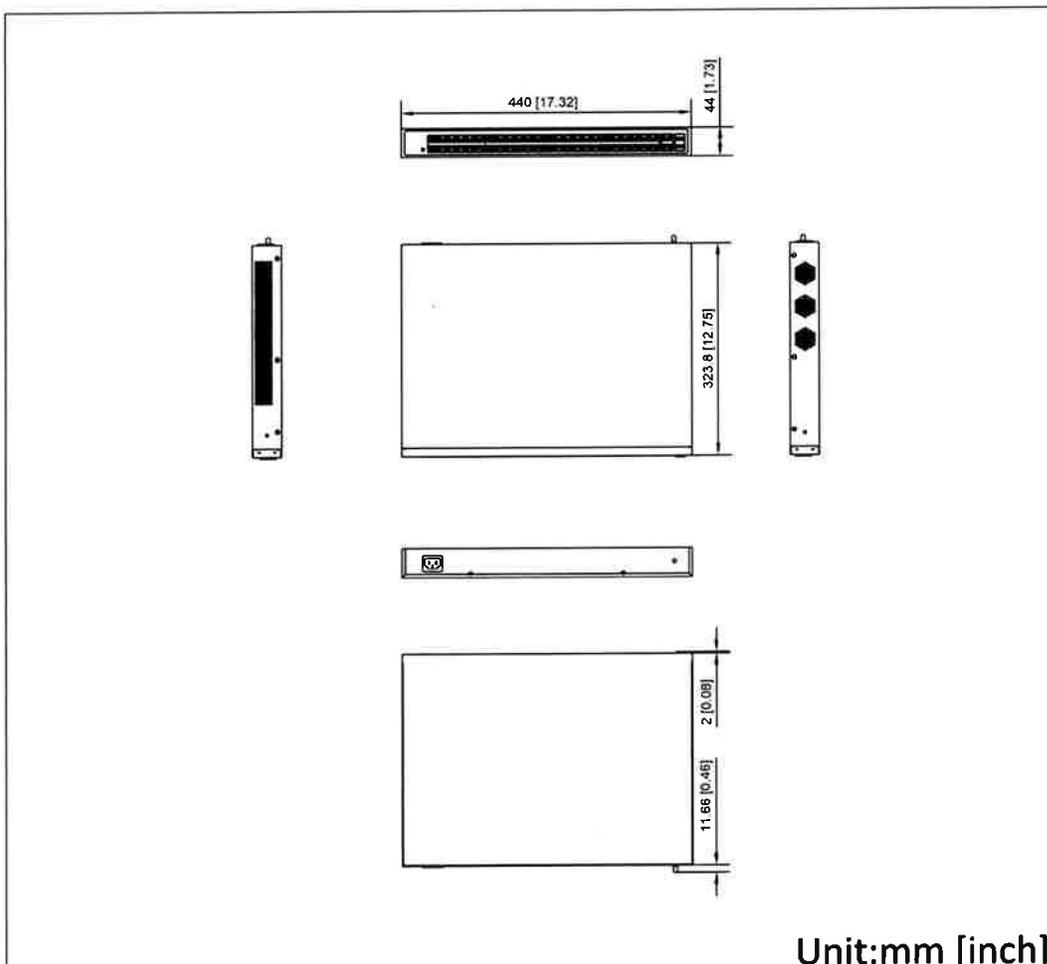## ▪ Physical Interface
Front Panel

Rear Panel

No.	Indicator/Port	Description
①	PWR Indicator	● Solid: The switch is powered on normally. ● Unlit: No power supply connected or power supply is abnormal.
②	PoE-MAX Indicator	● Solid on: The output power of the switch is about to reach or has reached the upper limit. The power supply may be abnormal if more devices are connected. ● Unlit: The switch supplies power to a powered device (PD) normally and its output power does not reach the upper limit.

		• Flashing: The port is transmitting data.
		• Unlit: The port is disconnected or connection is abnormal.
③	PoE Indicator	• Solid: The switch provides power supply to PD normally. • Unlit: The switch is disconnected to PD, or provides power supply to PD abnormally.
④	Reset Button (Long Press)	Press and hold the reset button for more than 5 seconds to restore all the configurations of the switch to default settings.
④	Indicator Switching Button (Short Press)	• Press on it until LINK/ACT indicator lighting, which shows a port's data transmission status. • Press on it until PoE indicator lighting, which shows a PoE port's power supply status.
⑤	Gigabit PoE RJ45 Port	Used for connection to a PD via a network cable.
⑥	Gigabit RJ45 Port	Used for connection to another device via a network cable.
⑦	Gigabit SFP Fiber Optical Port	Used for connection to another device via an optical fiber when plugged into with an optical module.
⑧	Grounding Terminal	Used for connecting to the grounding cable to protect the switch from lightning.
⑨	Power Supply	Use the attached power cord to connect the switch to a socket.

Dimension

Unit:mm [inch]

J.J.

See Far, Go Further