

Secretaría de Seguridad Ciudadana

MEMORIA TÉCNICA

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Descripción del Proyecto

La Secretaría de Seguridad llevará a cabo la expansión de la red existente de cámaras para:

- a. reforzar y ampliar el servicio existente del Centro de Monitoreo - Secretaria de Seguridad.
- b. mejorar el servicio en las diversas dependencias municipales y
- c. el uso destinado al sector publico tales: plazas, parques, polideportivos, escuelas, CEM, entre otros.

Implementación

Se requiere ampliar la red existente con la compra de Cámaras de video vigilancia con las siguientes características técnicas a respetar:

Cámara Domo PTZ

Camara				
Pixel	2MP			
Max. Resolution	1920 (H) × 1080 (V)			
Min. Illumination	Color: 0.005Lux@F1.6 B/W: 0.0005Lux@F1.6 0Lux@F1.6 (IR light on)			
Illumination Distance	100 m (328.08 ft)			
Lente				
Focal Length	4.8 mm–120 mm			
Max. Aperture	F1.6–F4.4			
Field of View	H: 62.8°–2.6°; V: 33.2°–1.7°; D: 67.3°–3.9°			
Optical Zoom	25x			
DORI Distance	Detect	Observe	Recognize	Identify
	1613 m (5291.99 ft)	646 m (2119.42 ft)	323 m (1059.71 ft)	161 m (528.22 ft)
PTZ				
Pan/Tilt Range	Pan: 0°–360° (endless) Tilt: -15°–90° (auto flip 180°)			
Manual Control Speed	Pan: 0.1°–200°/s Tilt: 0.1°–120°/s			
Preset Speed	Pan: 240°/s Tilt: 200°/s			
Video				
Compression	H.265+/H.265/H.264+/H.264/MJPEG (sub stream)			
Streaming Capability	3 streams			
Resolution	1080P (1920 × 1080); 1.3 M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)			
Frame Rate	Main stream: 1080P/1.3 M/720P (1–50/60fps) Sub stream 1: D1/CIF (1–25/30fps) Sub stream 2: 1080P/1.3M/720P/D1/CIF (1–25/30fps)			
Bit Rate Control	Variable/Constant			

Bit Rate	H.265/H.264: 3 kbps–20480 kbps
Day/Night	Auto(ICR)/Color/B/W
Digital Zoom	16x
Red	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; SSL; TCP/IP; UDP; UPnP; ICMP; IGMP; SNMPv1/v2c/v3(MIB-2); ARP; RTCP; RTSP; RTP; SMTP; NTP; DHCP; DNS; PPPOE; DDNS; FTP; IP Filter; QoS; Bonjour; 802.1x
Interoperability	ONVIF Profile S&G&T; CGI
Environment	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	≤95%
Protection	IP66; IK10

Soporte de Domo: Brazo compatible con domo utilizado

Parámetros

- **Característica** Compatible con domo suministrado
- **Descripción** Soporte de Montaje en poste vertical



Camara Fija

Cámara

- **Sensor De Imagen** 1/3" Progressive Scan CMOS
- **Max. Resolución** 2688 × 1520
- **Iluminación Mínima** Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
- **Tiempo De Obturación** 1/3 s to 1/100,000 s
- **Día Y Noche** IR cut filter
- **Ajuste De Ángulo** Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360°

Lente

- **Lente** Varifocal lens, motor-driven lens

- **Focal Length & FOV** 2.8 to 12 mm, horizontal FOV 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35°

DORI

- **DORI**
2.8 to 12 mm:
Wide: D: 64.0 m, O: 25.4 m, R: 12.8 m, I: 6.4 m
Tele: D: 190 m, O: 75.4 m, R: 38.0 m, I: 19.0 m

Iluminador

- **Tipo De Luz Suplementaria** IR
- **Rango De Luz Suplementaria** Up to 60 m
- **Luz De Suplemento Inteligente** Yes
- **IR Wavelength** Yes

Vídeo

- **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 (640 × 480, 640 × 360)
60 Hz: 30 fps (640 × 480, 640 × 360)
- **Third Stream**
50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
*Third stream is supported under certain settings.
- **Compresión De Video**
Main stream: H.265/H.264/H.265+/H.264+
Sub-stream: H.265/H.264/MJPEG
Third stream: H.265/H.264
*Third stream is supported under certain settings.
- **Vídeo Bitrate** 32 Kbps to 8 Mbps
- **Tipo H.264** Baseline Profile/Main Profile/High Profile
- **Tipo H.265** Main Profile
- **Bit Rate Control** CBR/VBR
- **Codificación De Video Escalable (SVC)** H.264 and H.265 encoding

Red

- **Protocolos**TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP
- **Usuario/Operador**Up to 32 users. 3 user levels: administrator, operator and user
- **Seguridad**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

Interfaz

- **Ethernet Interface**1 RJ45 10 M/100 M self-adaptive Ethernet port
- **On-Board Storage**Built-in micro SD slot, up to 256 GB

General

- **Alimentación**
12 VDC $\pm$ 25%, 1.08 A, max. 13 W, Ø5.5 mm coaxial power plug, reverse polarity protection
PoE: 802.3at, Class 4, 42.5 V to 57 V, 0.36 A to 0.27 A, max. 15 W
- **Condiciones De Inicio Y Funcionamiento**-30 °C to 60 °C (-22 °F to 140 °F).
Humidity 95% or less (non-condensing)
- **Protección**IP66 (IEC 60529-2013), IK10 (IEC 62262:2002)

Camara Ojo de pez

Cámara

- **Sensor De Imagen**1/2.8" Progressive Scan CMOS
- **Iluminación Mínima**Color: 0.005Lux @ (F1.2, AGC ON), 0.017Lux @ (F2.2, AGC ON), 0 Lux with IR on
- **Velocidad De Obturación**1/3 s to 1/100,000 s
- **Obturador Lento**Yes
- **Wide Dynamic Range**120dB
- **Día Y Noche**IR Cut Filter

Lente

- **Enfoque**Fixed
- **FOV**1.16 mm @ F2.2, horizontal field of view: 180°, vertical field of view: 180°
- **Montura Del Lente**M12

Iluminador

- **Rango IR** Up to 8 m

Vídeo

- **Max. Resolución** 2048 × 1536
- **Main Stream** 50Hz: 25fps (2048 × 1536, 1600 × 1200, 1280 × 960), 60Hz: 30fps (2048 × 1536, 1600 × 1200, 1280 × 960),
- **Sub Stream** 50Hz: 25fps (352 × 288, 704 × 576), 60Hz: 30fps (352 × 240, 704 × 576),
- **Compresión De Video** Main stream: H.265/H.264, Sub-stream: H.265/H.264/MJPEG,
- **Vídeo Bitrate** 32 Kbps to 16 Mbps
- **Tipo H.264** Main Profile/High Profile
- **Tipo H.265** Main Profile
- **H.264** +Support
- **H.265** +Support
- **Región De Interés (ROI)** Support 1 fixed region for main stream and sub-stream

Audio

- **Velocidad De Bits De Audio** 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)

Red

- **Vista En Vivo Simultánea** Up to 6 channels
- **API** ONVIF (PROFILE S, PROFILE G), ISAPI
- **Protocolos** TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, WebSocket, WebSockets
- **Usuario/Operador** Up to 32 users, 3 levels: Administrator, Operator and User,
- **Seguridad** Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS 1.2, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF, TLS1.2
- **Almacenamiento En Red** NAS (Support NFS, SMB/CIFS), built-in microSD/SDHC/SDXC card slot, up to 128 G, ANR
- **Cliente** iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500
- **Navegador Web** Plug-in required live view: IE8+, Chrome 41.0-44, Firefox 30.0-51, Safari 8.0-11, Plug-in free live view: Chrome 45.0+, Firefox 52.0+,
- **Activador De Alarma** Video tampering alarm, HDD full, HDD error, network disconnected, IP address conflicted, illegal login

Imagen

- **Interruptor Día/Noche**Auto/Schedule/Triggered by Alarm In (-S model supports)
- **DNR**3D DNR
- **Corrección De Distorsión**Support
- **Mejora De La Imagen**WDR/3D DNR/Backlight Compensation/Defog
- **Configuración De Imagen**Saturation, brightness, contrast, and sharpness are adjustable via client software or web browser
- **Modo De Visualización**Support 14 display modes in total (including display modes of different mount types):, Fisheye View, 180 Panorama View, 4PTZ, Fisheye + 3PTZ, 360 Panorama View, 360 Panorama + PTZ, 360 Panorama + 3PTZ, 360 Panorama + 6PTZ, 360 Panorama + 8PTZ, 2PTZ, Fisheye + 8PTZ, Panorama View, Panorama + 3PTZ, Panorama + 8PTZ,

Interfaz

- **Audio**1 audio input (line in), 1 audio output interface
- **Alarma**1 alarm input, 1 alarm output (DC24V, 1A or AC110V, 500mA, max.)
- **Almacenamiento A Bordo**Built-in microSD/SDHC/SDXC slot, up to 128 G
- **Interfaz De Comunicación**1 RJ45 10M/100M self-adaptive Ethernet port

Evento

- **Evento Básico**Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)
- **Evento Inteligente**Line crossing detection, intrusion detection, unattended baggage, object removal, face detection, scene change detection

General

- **Método De Enlace**Trigger recording: memory card, network storage, pre-record and post-record Trigger captured pictures uploading: FTP, HTTP, NAS, Email Trigger notification: HTTP, ISAPI, alarm output , Email
- **Versión De Firmware**V5.5.52
- **Idioma Del Cliente Web**32 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)
- **Función General**One-key reset, anti-flicker, password protection, privacy mask, IP Address filtering, heartbeat, watermark
- **Condiciones De Inicio Y Funcionamiento**-10 °C to +50 °C (-14 °F to +122 °F), humidity 95% or less (non-condensing)
- **Fuente De Alimentación**DC 12V $\pm$ 25%, 0.4 A, 4.8 W, PoE (802.3af, 36V to 57 V, class 3), 0.4 A to 0.7 A, 6.4 W,

- **Dimensión De La Cámara** $\Phi 119.9 \times 41.2 \text{ mm}$ ($\Phi 4.72'' \times 1.62''$)
- **Peso De La Cámara** 600 g (1.32 lb.)

Camara LPR "2 Carriles"

Camera	
Image Sensor	1/1.8" CMOS
Image Resolution	2688 (H) $\times$ 1520 (V) (OSD black background is not calculated in the pixels)
Shutter Mode	Single shutter
Electronic Shutter Speed	Auto/Manual 1/50 s–1/100,000 s
Noise Reduction	3D NR
S/N Ratio	> 56 dB
WDR	140 dB
Min. Illumination	0.0001lux
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the common IR cut-off filter at night
Illuminator	
Illuminator Number	4 illuminators (830 nm LED illuminators, adjustable brightness)
IR Light	Yes
Illumination Distance	23 m–30 m (75.46 ft–98.43 ft) (adjustable brightness)
Lane Coverage	1–2 lanes
Lens	
Lens	Motorized vari-focal
Focal Length	10 mm–50 mm
Max. Aperture	Max. F1.33
Field of View	Horizontal: 9.4°–40.8° Vertical: 5.4°–22.9° Diagonal: 10.7°–46.9°
Exposure Mode	Auto; Manual (Select from shutter values or customize shutter range)
Function	
Trigger Mode	Video detection; radar
Speed Detection Range	0 km/h–180 km/h
OSD Overlay	Time, address, device SN, lane No., plate number, plate color, vehicle logo, vehicle type, vehicle color, vehicle size, vehicle speed, country/region, event (violation name), and motorcycle attributes (type, number of people, and helmet)
Alarm Event	Storage full, storage error, external alarm, no storage space, license plate blacklist, illegal access, and security fault
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)
Auto Registration	Yes

Intelligence	
Target Detection	Motor vehicle; motorcycle
ANPR	Adopts Dahua developed algorithms to recognize license plate numbers and letters
Vehicle Type Recognition	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during nighttime)
Accuracy (Under recommended installation and lighting conditions)	Capture rate > 99%; LPR accuracy > 98%
Vehicle Brand/Logo Recognition	Acura; Alfaromeo; Ashokleyland; Astonmartin; Audi; Baic; Bently; Benz; BMW; Buick; BYD; Cadillac; Chery; Chevrolet; Chrysler; Citroen; Dacia; Daihatsu; Datsun; Dodge; DS; Ferrari; Fiat; Force; Ford; Foton; Geely; GMC; Greatwall; Hino; Honda; Hyundai; Infiniti; Isuzu; Iveco; Jac; Jaguar; Jeep; Kia; Kinglong; Land; Lexus; Lifan; Lincoln; Mahindra; MAN; Maserati; Mazda; Mercury; MG; Mini; Mitsubishi; Nissan; Opel; Peugeot; Porsche; Renault; Rollsroyce; Saab; Scania; Seat; Skoda; Smart; Subaru; Suzuki; Tata; Tesla; Toyota; UD; Volkswagen; Volvo
Motor Vehicle Violation Capture	Speeding; driving slow; wrong-way driving; illegal lane change
Motorcycle Violation Capture	Overload; not wearing helmet
Traffic Flow Detection	Statistics on vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, and road status
Traffic Event	Motor vehicle illegal stopping on the roadway; traffic congestion
Video	
Video Compression	H.265; H.264M; H.264H; MJPEG
Video Resolution	4M (2688 × 1520); 1080p (1920 × 1080); UXGA (1600 × 1200); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	Max. 25 fps; main stream (2688 × 1520@25 fps), sub stream (1600 × 1200@25 fps)
Video Bit Rate	H.264: 32 kbps–32767 kbps H.265: 32 kbps–32767 kbps MJPEG: 512 kbps–32767 kbps
Bit Rate Control	CBR; VBR
White Balance	Auto; Manual; Outdoor; Natural; Street Lamp; Partial white balance
Edge Enhancement	Yes
HLC	Yes
BLC	Yes
Bad Pixel Correction	Yes
Gain Range	0–100
Image	

Composite Image	Supports combining up to 3 source images, and 1 close-up image into a composite image
Image Resolution	2688 (H) × 1520 (V) (OSD black background is not calculated in the pixels)
Image Encoding Format	JPEG
Image Tampering Prevention	Verifies watermarks in videos and images
Network	
Network Port	1 × RJ-45 Ethernet port, 10/100/1000 M network transmission
SDK and API	Yes
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Protocol	IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP
Interoperability	ONVIF (Profile S/Profile G/Profile T)
Browser	IE: IE 9–11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier For Win 10 users, run the browser as administrator
Positioning	GPS
Time Synchronization	NTP; GPS
Port	
Storage	1, supports maximum 256 GB TF card local storage
RS-485	2, connects to devices such as radars
RS-232	2, con is used for serial debugging and R T G is for connecting to radars
Audio Input	1 channel
Audio output	1 channel
Alarm Input	3 channel
Alarm Output	2 channels. 2 for relay
General	
Power Supply	12–36 VDC, PoE
Power Consumption	≤ 13 W
Operating Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Storage Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Operating Humidity	10%–90%
Storage Humidity	10%–90%
Protection	IP67, IK10 rated
Certifications	CE: E234884-A6183-IT-1/4789603556-1 FCC: 4789603556-2 UL: E234884-A6183-X3
Product Dimensions	466.4 mm × 135.8 mm × 134.1 mm (18.36" × 5.35" × 5.28") (L × W × H)
Net Weight	3.9 kg (8.59 lb)

Gross Weight	4.8 kg (10.58 lb)
Installation	Installs with universal mounting brackets, or as a side-mount with mounting brackets

Camara LPR "4 Carriles"

Camera	
Image Sensor	1.1" GS-CMOS
Shutter Mode	Single shutter; Double shutter; Three shutters
Electronic Shutter Speed	50 Hz: 1/50 s–1/100,000 s (auto; manual) 60 Hz: 1/60 s–1/100,000 s (auto; manual)
Noise Reduction	3D NR; 2D NR
S/N	48 dB
WDR	90 dB
Minimum intensity	0.001 lux
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the IR transmitting filter at night
Illuminator	
Illuminator Number	8
IR	850 nm
Illumination Distance	23–30 m (brightness adjustable)
IR Covered lane	3 lanes
Lens	
Lens Type	Motorized vari-focal
Focal Length	16 mm–40 mm
Max. Aperture	F1.5
Aperture Type	P iris
Field of View	Horizontal: 21.2°–50.1° Vertical: 14.7°–34.4° Diagonal: 25.3°–60.3°
Function	
Trigger Mode	Video detection; radar
Speed Detection Range	0 km/h–300 km/h
OSD Overlay	Time, address, lane No., plate, plate color, and more
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blocklist, illegal access, network disconnection, and IP conflict
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)
Auto Registration	Yes
Intelligence	

Target Detection	Motor vehicle; motorcycle
Face Detection	Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images
ANPR	Adopts Dahua developed algorithms to recognize license plate numbers and letters
Vehicle Type Recognition	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, orange, purple, brown, and silver gray (color recognition is not supported during the nighttime)
Accuracy (under recommended installation and lighting conditions)	Capture rate > 99%; LPR accuracy > 98%
Vehicle logo	Vehicle head mode: Acura, Alfaromeo, Ashokleyland, Astonmartin, Audi, Baic, Bently, Benz, BMW, Buick, BYD, Cadillac, Chery, Chevrolet, Chrysler, Citroen, Dacia, Daihatsu, Datsun, Dodge, DS, Ferrari, Fiat, Force, Ford, Foton, Geely, GMC, Greatwall, Hino, Honda, Hyundai, Infiniti, Isuzu, Iveco, Jac, Jaguar, Jeep, Kia, Kinglong, Land, Lexus, Lifan, Lincoln, Mahindra, MAN, Maserati, Mazda, Mercury, MG, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Rollsroyce, Saab, Scania, Seat, Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD, Volkswagen, Volvo
Motor Vehicle Violation Snapshot	ANPR mode: Wrong-way driving, speeding, driving slow, crossing the white solid line, crossing the yellow solid line, illegal lane change, unfasten seat belt, calling while driving, smoking while driving E-Police mode: Running a red light, wrong-way driving, crossing the white solid line, crossing the yellow solid line, disobeying the lane direction sign, disobeying the direction arrow, illegal left turn, illegal right turn, illegal U-turn (not supported by side-mounted cameras), and crossing the stop line
Motorcycle vehicle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving
Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more
Traffic Event	Motor vehicle illegal stopping on the roadway, traffic congestion
Video	
Video Compression	H.265; H.264M; H.264H; MJPEG
Video Resolution	4096 × 2824; QFHD (3840 × 2160); 1080p (1920 × 1080); UXGA (1600 × 1200); 720p (1280 × 720)
Video Frame Rate	50 Hz: Maximum 50 fps; default main stream (4096 × 2824@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096 × 2824@25 fps), sub stream (1600 × 1200@25 fps)
Video Bit Rate	H.264: 32 kbps–32768 kbps H.265: 32 kbps–32768 kbps MJPEG: 512 kbps–32768 kbps
Bit Rate Control	CBR; VBR
White Balance	Auto; night; custom color temperature

Edge Enhancement	Yes
HLC	Yes
BLC	Yes
Bad Pixel Correction	Yes
Gain Scope	0–100
image	
Composite Image	Supports composing 1, 2, 3, or 4 images
Image Resolution	4096 (H) × 2824 (V) (OSD black background is not calculated in the pixels)
Image Encoding Format	JPEG
Image Tampering Prevention	Watermark and verification are available for videos and images
Network	
Network Port	2 RJ-45 Ethernet ports, 10/100/1000 M network transmission
SDK and API	Yes
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Protocol	IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP
Interoperability	ONVIF (Profile S/Profile G/Profile T)
Browser	IE: IE 9–IE 11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier Win10 needs to open the browser with administrator rights
Positioning	GPS
Time Synchronization	NTP; GPS
Port	
Storage	1, supports maximum 256 GB TF card local storage
Iris Control	1, connects to DC iris or P iris
Focus Control	1, connects to motorized vari-focal lens
Frequency Source Sync	1, supports synchronizing the camera with the mains electricity
Peripheral Light	7, optocoupler signal output (can be configured as flashing light or LED strobe sync output port, frequency adjustable)
USB	2 USB 2.0 ports
RS-485	2, connects to devices such as signal detector, strobe, continuous light, and all-in-one illuminator
RS-232	4 (1 is used for serial debugging and 3 for connecting to radars)
I/O	4, same functions as ALARM IN port
Audio Input	1, 3.5 mm (0.14") jack
Audio output	1, 3.5 mm (0.14") jack
Alarm Input	4, same functions as I/O port
Alarm Output	2 (AO1 is for relay output and AO2 for optocoupler output)
Power Output	12 VDC ±10% voltage output, ≤ 1.5 A current output

General	
Power Supply	100–240 VAC, 50 Hz/60 Hz
Power Consumption	≤ 20 W
Operating Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Storage Temperature	–40 °C to +70 °C (–40 °F to +154 °F)
Operating Humidity	10%–90%
Storage Humidity	10%–90%
Protection	IP66, IK10
Certifications	CE: 4789630630-1, FCC: 4789630630-2
Product Dimensions	554.0 mm × 204.2 mm × 209.6 mm (21.81" × 8.04" × 8.25") (L × W × H)
Net Weight	4.6 kg (10.14 lb)
Gross Weight	6.6 kg (14.55 lb)
Installation	Center mount; Side mount

Montaje para poste vertical para cámaras fijas

Parámetros

- **Material**Stainless Steel
- **Descripción**Horizontal Pole Mount
- **Compatibilidad con cámaras fijas elegidas**

