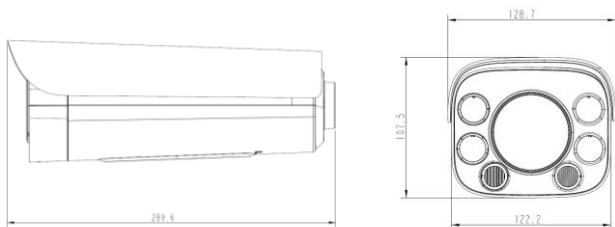# X2222-CL

2MP Face Comparison Bullet Camera

Features

- Computing Power 4 TOPS
- Behavior analysis, exception detection, person detection, personal attribute recognition, crowd flow analysis
- 1/1.8" progressive scan CMOS
- Support face recognition 1 to 3, face capture 1 to 4
- Software defined, support algorithm online loading and updating
- Area cropping, allowing users to view fine details at a limited bandwidth
- Facial attribute recognition and personal attribute recognition
- Stream smoothing, meeting various requirements for video quality and fluency
- Traffic shaping, enabling precise control over instantaneous burst of video streams and delivering smooth video without packet loss
- TCP acceleration, enabling the network to carry video streams of higher quality

Dimensions

Unit: mm

Recommended Accessories

Pole mount   Wall mount   Universal joint

Technical Specifications

Product Model	X2222-CL
Camera	
Image Sensor	1/1.8" 2-megapixel progressive scan CMOS
Effective pixels	1920(H)*1080(V)
Minimum Illumination	Color: 0.0004lux (F1.2, AGC ON, 1/30s shutter speed) B/W: 0.0001 lux (F1.2, AGC ON, 1/30s shutter speed)
Day/Night Mode	Auto (ICR), color, or B/W
Wide Dynamic Range (WDR)	120 dB
White Balance	Auto/Auto tracking/Manual
Highlight Compensation (HLC)	Supported
Image Defogging	Auto/Manual/Off
Digital Noise Reduction (DNR)	2D/3D noise reduction
Lens and Illuminator	
Focal Length	12–55 mm
Maximum Aperture	F1.3(W)-F1.5(T)
Iris Type	P-iris
Maximum Radiation Distance	30 m
Function	
Video Compression Format	H.265/H.264/MJPEG
Maximum Resolution	1920×1080(1080P)
Angle of view	Horizontal: 9.2° (T) to 40.3° (W);Vertical: 5.3° (T) to 22.8° (W)
Frame Rate	60/50/30/25fps
Multi-Stream	Supports five streams and independent 4MP HD video encoding.
Intelligent Encoding	Extra265/264
Camera Connection Protocol	GB/T 28181 (2011, 2016), GB 35114-2017, Huawei SDK, and Huawei Rest API
Network Protocol	TCP, UDP, IPv4, IPv6, DHCP, DHCPv6, DNS, ICMP, ICMPv6, IGMP, HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP (V1/V2/V3), 802.1X, QoS, DDNS, and SMTP
Security Mode	User name and password authentication, 802.1X access authentication, and HTTPS digital certificate
Media Security	AES256-based SDK stream encryption
Alarm Linkage	Alarm source: motion detection/lens blocking/Boolean value input/intelligent analysis alarms Linkage action: Boolean value output/preset position/tour track/scan/SD card–based video recording/SD card–based snapshot taking/email sending/pre-alarm video recording
Intelligent Analysis	
Computing Power	4 TOPS
Behavior Analysis	Fast movement detection, abandoned object detection, removed object detection, tripwire crossing detection, intrusion detection, area entry/exit detection, and loitering detection (constraint scenario)
Anomaly Detection	Defocus detection, audio existence detection, sudden volume increase or decrease detection, scene change detection, heat map (constraint scenario)
Person Detection	Simultaneous detection and optimal snapshot of face, head and shoulder, and person
Personal Attribute Recognition	5 facial attributes (for example, whether wearing a mask); 7 personal attributes (for example, gender, age, and tops style); rider attribute recognition; rider attribute recognition (constraint scenario)
Crowd Flow Analysis	Crowd flow statistics
Port	
Network Port	Two RJ45 10M/100M/1000M adaptive Ethernet ports
Communication Serial Port	One RS-485 port
Alarm Port	2 alarm input ports and 1 alarm output port
Audio Port	1 audio input port and 1 audio output port
Storage Port	One microSDHC/microSDXC card slot, supporting a maximum capacity of 256 GB
General Specifications	
Power Supply	24 V AC
Power Consumption	Maximum: 32 W; Typical: 8.5 W
Operating Temperature	–40°C to +60°C
Operating Humidity	5% to 95% (non-condensing)
Surge Protection Rating	6 kV
Ingress Protection Rating	IP67 IK10
Weight	Net weight: 2.36 kg; Gross weight: 3.3 kg
Dimensions (H x W x D)	Device: 106×129×292.5mm; Packing: 146×259×533mm