

X2221-CL

2MP Face Recognition Softlight Bullet Camera

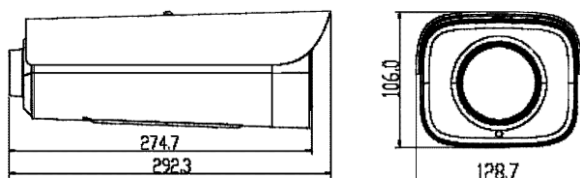


Features

- 1/1.8" progressive scan CMOS image sensor
- Built-in NPU neural network engine, greatly improving the performance of deep learning algorithms
- Facial recognition at the front end, supporting the alarm output based on the object match with 300,000 blacklist records
- Simultaneous snapshot of the face, person, and head and shoulder
- Simultaneous detection and tracking of 100 targets
- Face capture supported for faces at an ultra-large deviation angle
- Face tracking, filtering, and evaluation to generate the optimal face snapshot and reduce repeated snapshots
- Facial attribute recognition and personal attribute recognition
- AI-based scene adaptation. The camera can detect scenarios in real time and make targeted setting optimization to improve imaging quality.
- Software-defined camera, supporting online loading and upgrade of algorithms
- Extra265 intelligent encoding, reducing 70% of the requirements on storage and bandwidth resources
- Area cropping, viewing fine details through limited bandwidth
- 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
- Long-distance PoE power supply and AC power supply

Dimensions

Unit: mm



Optional Accessories



Pole mount



Wall mount



Universal joint

Technical Specifications

Product Model	X2221-CL
Camera	
Image sensor	1/1.8" 2.0-megapixel progressive scan CMOS
Effective pixels	1920 (H) x 1080 (V)
Minimum illumination	Color: 0.002 lux @ (F1.2, AGC ON) B/W: 0.0002 lux @ (F1.2, AGC ON) 0lux (IR LED ON)
WDR	120 dB
White balance	Auto/Auto tracking/Manual
Highlight compensation (HLC)	Supported
Electronic defogging	Auto/Manual/Off
Digital noise reduction (DNR)	Self-adaptive to 2D or 3D DNR
Signal System	NTSC
Features	Time stamp
Lens & Illuminator	
Focal length	12-55 mm
Digital Zoom	4x
Maximum aperture	F1.4
Lens type	Motorized Varifocal
Iris type	P-iris
Light supplement distance	20 meters. The soft light supports face capture at night.
Functions	
Audio Compression	G.711a
Video compression format	H.265/H.264/MJPEG
Maximum resolution	1920 x 1080 (1080p)
Frame rate	60 Hz: 60 fps, 30 fps, 1-20 fps; 50 Hz: 50 fps, 25 fps, 1-20 fps
Multiple streams	5 streams, independent dual-stream 1080p encoding
Area cropping encoding	4-stream encoding (secondary streams)
Intelligent encoding	Extra265/Extra264, ROI, TCP intelligent acceleration, stream smoothing, and traffic shaping
PU access protocol	ONVIF Profile S/G/T, GB/T 28181 (2011, 2016)
Network protocol	TCP, UDP, IPv4, IPv6, DHCP, DHCPv6, DNS, ICMP, ICMPv6, IGMP, HTTP/HTTPS, FTP, SFTP, RTP, RTSP, RTCP, SIP, ARP, SSL, NTP, SNMP, 802.1X, QoS, DDNS, SMTP, SSH, and TLS
Security mode	User name and password authentication, 802.1X, and HTTPS-based secure access
Media security	KMC key encryption, AES256-based stream encryption, and digital watermark
Alarm linkage	Alarm sources: Boolean value input, intelligent analysis; linked actions: Boolean value output, preset position, tour, scan, SD card recording, SD card snapshot, email sending, pre-recording
Intelligent functions	
Behavior analysis	Fast movement, abandoned object, removed object, tripwire crossing, intrusion, area enter/exit, loitering, and crowd gathering
Abnormality detection	Video quality diagnosis, audio detection, volume surge and decrease detection, scene change detection, and defocus detection
Intelligent analysis	
Pedestrian detection and capture	Simultaneous detection and capture of face, head and shoulder, and person
Face exposure	Real-time exposure adjustment based on ambient light conditions, optimizing facial image quality
Facial attribute recognition	Five attributes, including whether the person wears a mask
Personal attribute recognition	Seven attributes, including the gender, age, and dressing style
Facial recognition and match	Facial recognition at the front end, supporting the alarm output based on the object match with 300,000 blacklist records
Ports	
Network port	One RJ45 gigabit Ethernet port, supporting auto-sensing of 10 Mbit/s, 100 Mbit/s, and 1000 Mbit/s
Communication serial port	One half-duplex RS-485 port
Alarm port	2 alarm input ports, 1 alarm output port
Audio port	1 audio input port, 1 audio output port
Storage port	One microSDHC/microSDXC card slot, max. 256 GB
General specifications	
Power supply	AC24V, PoE (IEEE 802.3at/af)
Power consumption	Maximum: 32 W; typical: 8.5 W
Operating temperature	-40°C to +60°C
Operating humidity	5% to 95% (non-condensing)
Operating System	Linux
Lightening protection level	6 kV
Ingress protection rating	IP67
Impact protection rating	IK10(except the window)
Weight	Net: 2.36 kg; gross: 3.3 kg
Dimensions	Device: 129.0 x 106.0 x 292.5mm; packing: 533.0 x 259.0 x 146.0 mm