

# 4MP Starlight Camera

## Motorized Varifocal Bullet IP Camera



### FEATURES

- 4MP IP PoE Starlight Camera
- Motorized Varifocal 2.8-12mm Lens with 1/3" CMOS Sensor
- Built-in Microphone
- Smart IR up to 50m (164ft)
- 102.79° ~ 30.86° Wide View
- IP67 Weather Resistant
- -40°C ~ 60°C

### Optional Junction Box



**CY-JBTBL**  
Junction box

### ANALYTICS

- Motion Detection: Object moving in field of view
- Line Crossing: Humans crossing a defined point\*
- Intrusion Detection: Humans moving in a defined area\*
- Tampering Alarm: Notices of blocked lens
- Audio Detection: Detects sudden volume change



Motion  
Detection



Line  
Crossing



Intrusion  
Detection



Tampering  
Alarm



Audio  
Detection

\* Only Triggered by Humans

CAMERA	
Sensor	1/3", 4.0 megapixel, progressive scan, CMOS
Minimum Illumination	Colour: 0.003 lux (F1.6, AGC ON) 0 lux with IR on
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 ~ 1/100000s
Adjustment angle	Pan: 0° ~ 360° Tilt: 0° ~ 90° Rotate: 0° ~ 360°
WDR	120dB
S/N	>56dB
LENS	
Lens	2.8 ~ 12mm, AF automatic focusing and motorized zoom lens
Iris	Fixed
Field of View	(H) 102.79°~ 30.86° / (V) 54.50°~ 17.49° / (D) 106.94°~35.49°
DORI Distance	2.8 mm: Detect 63m Observe 25.2m Recognize 12.6m Identify 6.3m 12 mm: Detect 270m Observe 108m Recognize 54m Identify 27m
ILLUMINATOR	
IR Range	Up to 50m (164ft) IR range
Wavelength	850nm
IR On/Off Control	Auto/Manual
VIDEO	
Video Compression	Ultra 265, H.265, H.264, MJPEG
H.264 code profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 4MP (2688*1520), Max 25fps; 4MP (2560*1440), Max 25fps; 3MP (2304*1296), Max 30fps; 1080P (1920*1080), Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; D1 (720*576), Max 30fps; 640*360, Max 30fps;
Video Bit Rate	128 Kbps~16 Mbps
OSD	Up to 4 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Video stream	Dual streams
IMAGE	
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2
Image Setting	Image rotation, brightness, saturation, contrast, sharpness, gain adjustable by web browser
Digital Noise Reduction	2D/3D DNR
Smart IR	Support
Flip	Normal/Vertical/Horizontal/180°/90° Clockwise/90°Anti-clockwise
Dewarping	N/A
HLC	Support
BLC	Support
Defog	Digital Defog

ANALYTICS	
Basic Analytics	Motion detection, Tampering alarm, Audio detection, Cross Line detection <sup>‡</sup> , Intrusion detection <sup>‡</sup> , Ultra Motion Detection* *Only compatible with select NVRs <sup>‡</sup> Only triggered by Humans
Other Functions	Watermark, IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication
AUDIO	
Audio Compression	G.711
Audio Bitrate	64 Kbps
STORAGE	
Edge Storage	Micro SD, up to 256GB
Network Storage	ANR,NAS(NFS)
NETWORK	
Protocols	IPv4, IPv6, IGMP, ICMP, ARP, TCP, UDP, DHCP, RTP, RTSP, RTCP, RTMP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SSL/TLS, QoS, 802.1x, SNMP
Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API
User/Host	Up to 32 users. 2 user levels: administrator and common user
Security	Password protection, Strong password, HTTPS encryption, Export operation logs, Basic and digest authentication for RTSP, Digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
Client	CymCam2 / Guard Station / Star4Live
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above Plug-in free live view: Chrome 57.0 and above, Firefox 58.0 and above, Edge 16 and above
INTERFACE	
Audio I/O	N/A
Alarm I/O	N/A
Built-in Mic	Support
Network	1 x RJ45 10M/100M Base-TX Ethernet
GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af) Power consumption: Max 8.5W
Power Interface	Ø 5.5mm coaxial power plug
Dimensions	206 x 74 x 74mm (8.1" x 2.9" x 2.9") (L x W x H)
Weight	0.55kg (1.2lb)
Material	Metal
Working/Storage Environment	-30°C ~ 60°C (-22°F ~ 140°F), Humidity: ≤95% RH (non-condensing)
Surge Protection	6KV
Reset Button	Support
Protection	IP67 (IEC 60529:1989+AMD1:1999+AMD2:2013)