

Spectrum S-B8-V11-F3

8MP Starlight IR Varifocal Bullet Network Camera

Key Features

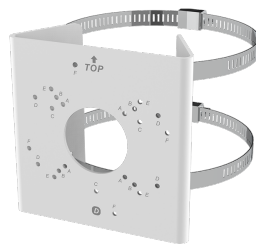
- 1/1.8" STARVIS™ CMOS, up to 8MP (3840 × 2160) @ 25/30 fps
- 3.6 to 11 mm motorized focal lens
- Supports face, human, and vehicle detection with snapshot capture
- Supports human and vehicle attribute analysis
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection, and people counting.
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Smart IR illumination up to 80 m
- Built-in microphone, 1/1 audio I/O, 2/1 alarm I/O
- Built-in microSD card slot (up to 1 TB)
- Hardware Root of Trust with FIPS 140-3 Level 3 Certified Secure Element
- IP66 protection



Description

The Spectrum S-B8-V11-F3 is an outdoor, weather-resistant 8MP (4K) bullet network camera equipped with a high-sensitivity Sony STARVIS™ Starlight sensor for clear full-color performance in near-total darkness. It features a motorized varifocal lens with smart IR illumination extending up to 60–70 meters. Like its PTZ counterpart, it comes heavily integrated with deep-learning AI analytics to trigger snapshots and alerts for face, vehicle, and human perimeter breaches

Optional Accessory



S-B8-PM Pole Mount

- Compatible with the S-B8 bullet camera
- Fits poles from $\Phi 60$ –152 mm (2.36–5.98 in)



Specifications

Spectrum S-B8-V11-F3

Camera

Image Sensor	1/1.8" Sony CMOS Sensor
Max Resolution	8MP, 3840 (H) x 2160 (V)
Shutter speed	1/5 ~1/20,000 sec
Minimum illumination	Color: 0.003 Lux @ (F1.3, AGC ON), B/W: 0.0008 Lux @ (F1.3, AGC ON), 0 Lux with IR ON
Day and Night	Auto (ICR)
Pan, Tilt & Rotate	P: 0° - 360° - T: 0° - 90° - R: 0° - 360°

Lens

Lens Type	Varifocal lens, Motorized focal
Focal Length	3.6 to 11 mm
Max. Aperture	F 1.3
Field of View (FOV)	H: 115.9° to 48.4° - V: 59.7° to 27°
Iris	P - Iris

IR Illuminator

Type	IR
IR Wave Length	850 nm
Distance	Up to 80m (262.5 ft)
Control	Auto / Manual

Video & Audio

Number of Streams	3 Streams
Resolution	Stream1: 3840×2160, 2592×1944, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA
Frame Rate (Max)	Up to 25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 16 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Off/On (8 Zone, Rectangle)
Audio Compression	G.711 A-law, G.711 μ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)

Image

Image Adjustment	Brightness, Sharpness, Contrast, Saturation
Scene Mode	Indoor, Outdoor, Mirror, Corridor mode
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day mode, Night mode, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR
Wide Dynamic Range	True WDR (120dB)
Privacy Masking	4 areas

Event

Alarm Triggers	Multi-Level Security
Event Actions	RJ45 10/100 Base-T

Intelligent Analytics

AI Multi-Target Detection	- Supports face, human, and vehicle detection with snapshot capture - Supports human and vehicle attribute analysis - Supports tracking display modes: Full Frame, Four-Corner Frame, and Mosaic
Attribute Analysis	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest. Vehicle Attributes: Type, color, brand, orientation.
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, area people limit, perimeter detection, illegal parking, running detection, fall detection, fight detection - Supports alarm triggering based on specified target types (human/vehicle)
People Counting	Supported

Network

Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 levels: Administrator, Operator, Media user
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge

Interface

Network Interface	1 × Ethernet (10/100 Base-T), RJ-45 connector
Built-in Microphone	Supported
Audio Interface	1 input (3.5 mm), 1 output (3.5 mm)
Alarm Interface	1 input, 1 output
SD Card Slot	Built-in microSD card slot (up to 1 TB)
Reset Button	Supported

DORI Distance (EN 62676-4 standard)

Detect	84 to 185 m (275.6 to 607.0 ft)
Observe	33.6 to 74 m (110.2 to 242.8 ft)
Recognize	16.8 to 37.0 m (55.1 to 121.4 ft)
Identify	8.4 to 18.5 m (27.6 to 60.7 ft)

Security

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User Authentication	Digest authentication, Brute-force attack protection
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access, system, and event logs
Secure Storage	AES-256 encrypted SD card storage
Supply Chain Security	SBOM
Hardware Security	FIPS 140-3 Level 3 Certified Secure Element

General	
Materials	Aluminum alloy housing; PC components
Weight	Approx. 1.3 kg (2.87 lb)
Power Supply	12 VDC / 24VAC / PoE (802.3af)
Power Consumption	Typical: 5 W (12 VDC), Max (IR on+ Focusing): 11.5 W (12 VDC)
Operating Conditions	-40°C to 60°C (-40°F to 140°F) Humidity 0-95% RH (condensing)
IP Rating	IP66
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English
Warranty	5-year warranty - with registration
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Dimensions	303 × 100 × 107 mm (11.9 × 3.94 × 4.21 inch)