

# For hazardous environments.

## Explosion Rated Series: IECEx rated varifocal cameras in 4.0MP and 8.0MP

The Explosion Rated Series offers ATEX and IECEx rated varifocal cameras for CCTV monitoring in hazardous environments where ignition sources must be strictly controlled. Built for energy & manufacturing industries, models in this range deliver superb video surveillance with AI functions, in a heavy duty, IP68 stainless steel chassis.

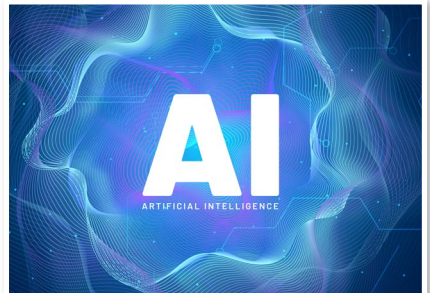
- Stream up to 8.0MP@25fps (3840 x 2160), AI H.265
- ATEX/IECEx: Zone 1/2 Gas (IIC); Zone 21/22 dust (IIIC)
- Up to 50m infrared range; true day/night (auto ICR)
- AI people counting via tripwire with data export
- AI human/vehicle detection up to 99% accuracy
- 2.7~13.5mm motorised lens (H: 109°~30°), fixed iris
- True WDR (120dB) & electronic image stabilisation
- Audio I/O (RCA), 1/1 alarm I/O and 1 x RS485 port
- MicroSD (up to 512GB); powered via PoE/12VDC
- IP68 rated stainless steel chassis (304, 316L optional)



**ATEX / IECEx Rated Protection**



**AI-Enhanced People Counting**



**AI Person & Vehicle Detection**

Specifications	4.0MP Explosion Rated Bullet	8.0MP Explosion Rated Bullet		
<b>Ordering Information</b>	<b>VSIPEX-4B</b>			
<b>Image Sensor</b>	1/2.8" 4.0MP Progressive Scan CMOS	1/2.8" 8.0MP Progressive Scan CMOS		
<b>Effective Pixels</b>	2688 (H) x 1520 (V)	3840 (H) x 2160 (V)		
<b>RAM / ROM</b>	512MB / 128MB	1GB / 128MB		
<b>Min Illumination</b>	0.005 Lux/F1.5 (Colour), 0.0005 Lux/F1.5 (B&W), 0 Lux (IR on)	0.007 Lux/F1.5 (Colour), 0.0007 Lux/F1.5 (B&W), 0 Lux (IR on)		
<b>S/N Ratio</b>	>56dB			
<b>Infrared System</b>	3 x Infrared LED, 50m range, Auto/manual on/off control			
<b>Lens / Iris</b>	2.7~13.5mm F1.5 Motorised Varifocal Lens with Fixed Iris			
<b>Field of View</b>	Horizontal: 99~29°, Vertical: 53~16°	Horizontal: 109~30°, Vertical: 56~17°		
<b>Focus</b>	0.8m Min. Focus Distance			
<b>DORI</b>				
<b>Detect (25px/m)</b>	64m (wide) / 210m (tele)	88m (wide) / 290m (tele)		
<b>Observe (63px/m)</b>	25m (wide) / 84m (tele)	35m (wide) / 116m (tele)		
<b>Recognise (125px/m)</b>	13m (wide) / 42m (tele)	18m (wide) / 58m (tele)		
<b>Identify (250px/m)</b>	6.4m (wide) / 21m (tele)	8.8m (wide) / 29m (tele)		
<b>Resolution</b>	4.0MP (2688 x 1520) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)		
<b>Frame Rate</b>	<b>Main</b>	4.0MP (1 ~ 25fps)	8.0MP (1 ~ 25fps)	
	<b>Sub</b>	D1 (1 ~ 25fps)	D1 (1 ~ 25fps)	
	<b>Third</b>	2.0MP / 1080p (1 ~ 25fps)	2.0MP / 1080p (1 ~ 25fps)	
<b>Video Compression</b>	AI H.264/265, Smart H.264+/265+, H.264/+, H.265/+, / MJPEG			
<b>Bit Rate</b>	H.264 / H.265: 32 ~ 8192Kbps	H.264 / H.265: 32 ~ 16,384Kbps		
<b>Bit Rate Control</b>	Constant bit rate (CBR) / Variable bit rate (VBR)			
<b>Day/Night</b>	Auto (ICR) / Color / B&W			
<b>Lighting Compensation</b>	BLC / HLC / WDR (120dB) / SSA			
<b>White Balance</b>	Auto / Natural / Street Lamp / Outdoor / Manual			
<b>Image Control</b>	Auto Gain Control, 3D Noise Reduction, Electronic Image Stabilisation (EIS), Defog,			
<b>Picture Control</b>	Mirror / Flip (0°, 90°, 180°, 270°) (Support 90°/270° at 4.0MP resolution and lower)			
<b>Video Functions</b>	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Heat Map			
<b>AI Functions</b>	<b>Smart Motion Detection (SMD 4.0):</b> AI People and vehicle detection via AI motion detection, Quick Pick search from SMD events <b>IVS (Perimeter Protection):</b> AI People and vehicle detection via tripwire or intrusion rules, loitering detection, crowd detection, parking detection <b>Face Detection:</b> Face snapshot optimisation (angle, exposure), 6 attributes, 8 expressions; integrate with face recognition devices <b>People Counting:</b> Supports people counting via line crossing, data export, area & queue management			
<b>Intelligent Search</b>	Search people or vehicle detection events (via SMD 4.0, Perimeter Protection)			
<b>Network</b>				
<b>Ethernet</b>	RJ-45 (100/1000 Base-T)			
<b>Protocol</b>	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P			
<b>Max. User Access</b>	20 Users (Total Bandwidth 80M)			
<b>Video Interface</b>	N/A			
<b>Audio Interface</b>	1 input / 1 output (RCA), Compression: G.711a; G.711Mu; G726; AAC			
<b>Alarm Interface</b>	1 input (wet contact, 5mA 3~5VDC), 1 output (dry contact 1000mA 30VDC, 500mA 50VAC)			
<b>RS485</b>	1 port (1200~115,200bps baud rate)			
<b>Edge Storage</b>	MicroSD Card (up to 512GB), NAS, Local PC, FTP, SFTP			
<b>Interoperability</b>	ONVIF (Profile S; Profile G; Profile T); CGI; Milestone; Genetec			
<b>Power Supply</b>	12VDC / PoE			
<b>Power Consumption</b>	<b>Basic:</b> 3.96W (12VDC); 4.95W (PoE), <b>Maximum</b> (H.265+intelligence on +WDR +IR on + auto focus): 9.2W (12VDC); 11.5W (PoE)			
<b>Certifications</b>	<b>CE-LVD:</b> EN62368-1; <b>CE-EMC:</b> Electromagnetic Compatibility Directive 2014/30/EU; <b>ATEX:</b> II 2 G Ex db IIC T6 Gb, II 2 D Ex tb IIIC T80°C Db, <b>IECEX:</b> Ex db IIC T6 Gb, Ex tb IIIC T80°C Db			
<b>Operating Conditions</b>	-30° ~ +60° C / Less than 95% RH			
<b>Ingress Protection</b>	IP68; TVS 2000V lightning proof; surge protection; voltage transient protection			
<b>Vandal Resistance</b>	N/A			
<b>Housing</b>	Stainless Steel (SUS304, SUS316L optional)			
<b>Pan/Tilt/Rotation</b>	N/A			
<b>Dimensions &amp; Weight</b>	215mm x 149mm x 151mm, 5kg (Net)			
<b>Diagrams</b>			<p>70° Tilt Mount Adapter VSIPEX-BU</p>	<p>Wall Mount Bracket VSIPEX-BW</p>

Your local VIP Vision™ IP solutions professional: