

- AI People & Vehicle Detection
- Face Capture
- People Counting



The best in AI surveillance.

Ultimate AI Series: Motorised AI bullets with face capture in 4.0MP & 8.0MP

Applying machine-learned algorithms, the Ultimate AI Series detects and captures faces independently from the AI NVR, extending face recognition capabilities across the whole CCTV system. The series also features intelligent Perimeter Protection and delivers superb image performance with low light colour and a motorised auto iris.

- Stream up to 8.0MP (3840 x 2160) at 25fps
- H.265 encoding for efficient storage & streaming
- Up to 60m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (120dB)
- MicroSD slot for recording at the edge up to 256GB
- Internal face/attribute detection to extend recognition
- Perimeter Protection to identify people & vehicles
- Combine Perimeter Protection with Tripwire/Intrusion to prevent false alarms, all using any VIP Vision NVR
- Extend PoE up to 800m (*requires ePoE NVR/switch*)



Superb Image Performance



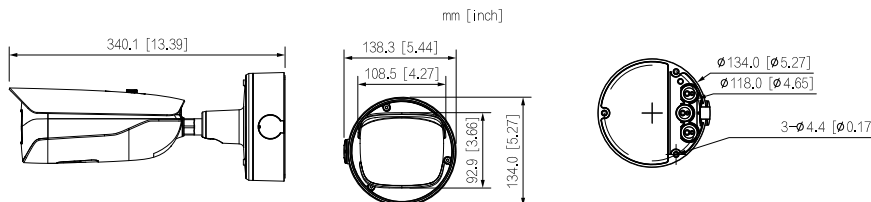
AI-Enhanced Face Detection



People Counting & Flow Control

Specifications	4.0MP Motorised AI Bullet	8.0MP Motorised AI Bullet	
Ordering Information	VSIPU-4BIRM-I	VSIPU-8BIRM-I2	
Image Sensor	1/1.8" 4.0MP Progressive Scan CMOS	1/1.8" 8.0MP Progressive Scan CMOS	
Effective Pixels	2688 (H) x 1520 (V)	3840 (H) x 2160 (V)	
RAM / ROM	1GB / 128MB		
Min Illumination	0.003 Lux / F1.8 (Color)	0.003 Lux / F1.2 (Color)	
S/N Ratio	> 50dB	> 56dB	
Infrared System	4 x Infrared LED, 50m range, Auto/manual on/off control	4 x Infrared LED, 60m range, Auto/manual on	
Lens / Iris	2.7 ~ 12.0mm F1.8 Motorised Varifocal Lens with Auto Iris	2.7 ~ 12.0mm F1.2 Motorised Varifocal Lens with Auto Iris	
Field of View	Horizontal: 114°~47°, Vertical: 62°~26°	Horizontal: 112.1°~47.5°, Vertical: 58°~26.6°	
Focus	Auto Focus / 1.2m Min. Focus Distance	Auto Focus / 1.75m Min. Focus Distance	
DORI			
Detect (25px/m)	58m (wide) / 131m (tele)	88m (wide) / 187m (tele)	
Observe (63px/m)	23m (wide) / 52m (tele)	35m (wide) / 79m (tele)	
Recognise (125px/m)	12m (wide) / 26m (tele)	18m (wide) / 37m (tele)	
Identify (250px/m)	6m (wide) / 13m (tele)	9m (wide) / 19m (tele)	
Resolution	4.0MP (2688 x 1520) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)	
Frame Rate	Main	4.0MP (1 ~ 25fps) / 3.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps)	8.0MP (1 ~ 25fps)
	Sub	D1 (1 ~ 50fps)	D1 (1 ~ 25fps)
	Third	1080p (1 ~ 50fps)	1080p (1 ~ 25fps)
Video Compression	H.265, H.264, H.264H, H.264B, MJPEG		
Bit Rate	H.264: 32Kbps ~ 8192Kbps / H.265: 19Kbps ~ 8192Kbps	H.264: 3Kbps ~ 20480Kbps / H.265: 3Kbps ~ 20480Kbps	
Bit Rate Control	Constant bit rate (CBR) / Variable bit rate (VBR)		
Day/Night	Auto (ICR) / Color / B&W		
Lighting Compensation	BLC / HLC / WDR (120dB)		
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual / Regional Custom		
Gain Control	Auto / Manual		
Noise Reduction	3D DNR		
Picture Control	Mirror / Flip (0°, 90°, 180°, 270°) (8.0MP supports 90°/270° with 4M resolution and lower)		
Intelligent Functions	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Abandoned Object, Moving Object		
Perimeter Protection	Tripwire & Intrusion (Add recognition of humans & vehicles), Fast Moving Detection, Loitering Detection, Parking & Gathering Detection		
Face Detection	In-camera Face Detection & Face Capture (add additional channels of Face Recognition using AI NVR)		
Face Attributes	Age, Gender, Expression, Glasses, Face Mask, Facial Hair		
People Counting	Supports Line Crossing/Region/Queuing People Counting, 4 Independent Access Detection / 4 Dependent Access Detection		
Heat Map	Yes		
Event Trigger	Motion Detection, Video Tampering, Scene Changing, Network Disconnection, IP Address Conflict, Illegal Access, Storage Anomaly		
Intelligent Search	Via NVR Smart Search / Search tripwire/intrusion events by people or vehicle, Search footage by face image and face attributes		
Network			
Ethernet	RJ-45 (10/100Base-T)		
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP		
Streaming Method	Multicast		
Max. User Access	20 Users		
Audio Interface	1 input (RCA Port) / 1 output (RAC Port) / Audio Compression: G.711a; G.711Mu; G.726; G.723	1 input (3.5 mm JACK port) / 1 output (3.5 mm JACK port) / Audio Compression: G.711a; G.711Mu; G.726; G.723	
Alarm Interface	2 channel in: 5mA 5VDC / 1 channel out: 300mA 12VDC	3 channel in: 5mA 3V-5VDC / 2 channel out: 1,000 mA 30VDC/500 mA 50VDC	
Edge Storage	MicroSD Card (up to 256GB) / NAS / FTP / SFTP		
Interoperability	ONVIF / P2P / CGI / Milestone / Genetec	ONVIF (Profile S/Profile G/Profile T) / P2P / CGI / Milestone / Genetec	
Power Supply	12VDC (±30%) / PoE (802.3af) / ePoE	12VDC (±25%) / 24VAC (±30%) / PoE (802.3af) / ePoE	
Power Consumption	<15.2W (heater + infrared)	<15.9W (heater + infrared)	
Operating Conditions	-40°C ~ +60°C, ≤95% RH		
Ingress Protection	IP67		
Vandal Resistance	IK10		
Housing	Metal, Plastic		
Pan/Tilt/Rotation	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°		
Dimensions	273mm x 95mm x 95mm	340.1mm x 138.3mm x 134.0mm	
Net Weight	1.11kg	1.6kg	

Application



Junction Box	
VSBKTA121-2	*8.0MP junction box built-in
Pole Mount	
VSBKTA121-2 + VSBKTA152E	
Corner Mount	
VSBKTA121-2 + VSBKTA151	
*8.0MP no additional brackets	

Your local VIP Vision™ IP solutions professional: