



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.

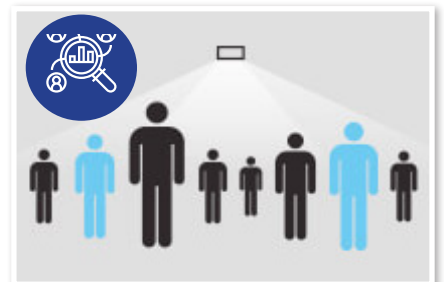
- Stream up to 8.0MP (3840 x 2160) at 25fps
- H.265 encoding for efficient storage & streaming
- Up to 60m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (120dB)
- MicroSD slot for recording at the edge up to 256GB
- Internal face/attribute detection to extend recognition
- 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	
<b>Ordering Information</b>		<b>VSIPU-4BIRM-I: Standard</b>	<b>VSIPU-8BIRM-I3</b>	
<b>Camera</b>	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)	0.004 Lux / F1.4 (Color)	
	S/N Ratio	> 50dB		
Infrared System		4 x Infrared LED, 50m range, Auto/manual on/off control	4 x Infrared LED, 60m range, Auto/manual on/off control	
<b>Lens</b>	Lens / Iris	2.7 ~ 12.0mm F1.8 Motorised Varifocal Lens with Auto Iris		
	Field of View	Horizontal: 114°~47°, Vertical: 62°~26°		
	Focus	Auto Focus / 1.2m Min. Focus Distance		
<b>DORI</b>	Detect (25px/m)	58m (wide) / 131m (tele)	86m (wide) / 196m (tele)	
	Observe (63px/m)	23m (wide) / 52m (tele)	34.4m (wide) / 78.4m (tele)	
	Recognise (125px/m)	12m (wide) / 26m (tele)	17.2m (wide) / 39.2m (tele)	
	Identify (250px/m)	6m (wide) / 13m (tele)	8.6m (wide) / 19.6m (tele)	
<b>Video</b>	Resolution	4.0MP (2688 x 1520) to CIF (352 x 288)		
	Frame Rate	Main	4.0MP (1 ~ 25fps) / 3.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps)	
		Sub	D1 (1 ~ 50fps)	
		Third	1080p (1 ~ 16fps)	
	Video Compression	H.265, H.264, H.264H, H.264B, MJPEG		
	Bit Rate	H.264: 32Kbps ~ 8192Kbps / H.265: 19Kbps ~ 8192Kbps		
	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)			
<b>IVS</b>	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		
<b>Network</b>	Intelligent Search	Via NVR Smart Search / Search tripwire/intrusion events by people or vehicle, Search footage by face image and face attributes		
	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		
<b>Interface</b>	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		
	Alarm Interface	2 channel in: 5mA 5VDC / 1 channel out: 300mA 12VDC		
	Edge Storage	MicroSD Card (up to 256GB) / NAS / FTP / SFTP		
	Interoperability	ONVIF / P2P / CGI / Milestone / Genetec		
<b>Environmental</b>	Power Supply	12VDC (±30%) / PoE (802.3af) / ePoE		
	Power Consumption	<15.2W (heater + infrared)	<7.9W	
	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	273.2mm x 95mm x 95mm		
Net Weight	1.11kg	1.51kg		

Application	
	Junction Box
	VSBKTA121-2
	Pole Mount
	VSBKTA121-2 + VSBKTA152E
	Corner Mount
	VSBKTA121-2 + VSBKTA151

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