



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</b> : Standard	<b>VSIPU-8BIRM-I3</b>	
<b>Camera</b>	<b>Image Sensor</b>	1/1.8" 4.0MP Progressive Scan CMOS	1/1.8" 8.0MP Progressive Scan CMOS	
	<b>Effective Pixels</b>	2688 (H) x 1520 (V)	3840 (H) x 2160 (V)	
	<b>RAM / ROM</b>	1GB / 128MB		
	<b>Min Illumination</b>	0.003 Lux / F1.8 (Color)	0.004 Lux / F1.4 (Color)	
	<b>S/N Ratio</b>	> 50dB	> 56dB	
<b>Infrared System</b>		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>	<b>Lens / Iris</b>	2.7 ~ 12.0mm F1.8 Motorised Varifocal Lens with Auto Iris	2.7 ~ 12.0mm F1.4 Motorised Varifocal Lens with Auto Iris	
	<b>Field of View</b>	Horizontal: 114°~47°, Vertical: 62°~26°	Horizontal: 110.4°~45°, Vertical: 57.8°~25.2°	
	<b>Focus</b>	Auto Focus / 1.2m Min. Focus Distance		
<b>DORI</b>	<b>Detect (25px/m)</b>	58m (wide) / 131m (tele)	86m (wide) / 196m (tele)	
	<b>Observe (63px/m)</b>	23m (wide) / 52m (tele)	34.4m (wide) / 78.4m (tele)	
	<b>Recognise (125px/m)</b>	12m (wide) / 26m (tele)	17.2m (wide) / 39.2m (tele)	
	<b>Identify (250px/m)</b>	6m (wide) / 13m (tele)	8.6m (wide) / 19.6m (tele)	
<b>Video</b>	<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) / 3.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps)	8.0MP (1 ~ 25fps)
		<b>Sub</b>	D1 (1 ~ 50fps)	D1 (1 ~ 25fps)
		<b>Third</b>	1080p (1 ~ 16fps)	1080p (1 ~ 25fps)
	<b>Video Compression</b>	H.265, H.264, H.264H, H.264B, MJPEG		
	<b>Bit Rate</b>	H.264: 32Kbps ~ 8192Kbps / H.265: 19Kbps ~ 8192Kbps	H.264: 32Kbps ~ 8192Kbps / H.265: 32Kbps ~ 8192Kbps	
	<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)		
	<b>White Balance</b>	Auto / Natural / Street Lamp / Outdoor / Manual / Regional Custom		
<b>Gain Control</b>	Auto / Manual			
<b>Noise Reduction</b>	3D DNR			
<b>Picture Control</b>	Mirror / Flip (0°, 90°, 180°, 270°) (8.0MP supports 90°/270° with 4M resolution and lower)			
<b>Intelligent Functions</b>	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Abandoned Object, Moving Object			
<b>Perimeter Protection</b>	Tripwire & Intrusion (Add recognition of humans & vehicles), Fast Moving Detection, Loitering Detection, Parking & Gathering Detection			
<b>Face Detection</b>	In-camera Face Detection & Face Capture (add additional channels of Face Recognition using AI NVR)			
<b>IVS</b>	<b>Face Attributes</b>	Age, Gender, Expression, Glasses, Face Mask, Facial Hair		
	<b>People Counting</b>	Supports Line Crossing/Region/Queuing People Counting, 4 Independent Access Detection / 4 Dependent Access Detection		
	<b>Heat Map</b>	Yes		
	<b>Event Trigger</b>	Motion Detection, Video Tampering, Scene Changing, Network Disconnection, IP Address Conflict, Illegal Access, Storage Anomaly		
	<b>Intelligent Search</b>	Via NVR Smart Search / Search tripwire/intrusion events by people or vehicle, Search footage by face image and face attributes		
<b>Network</b>	<b>Ethernet</b>	RJ-45 (10/100Base-T)		
	<b>Protocol</b>	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		
	<b>Streaming Method</b>	Multicast		
	<b>Max. User Access</b>	20 Users		
<b>Interface</b>	<b>Audio Interface</b>	1 input (RCA Port) / 1 output (RAC Port) / Audio Compression: G.711a; G.711Mu; G.726; G.723		
	<b>Alarm Interface</b>	2 channel in: 5mA 5VDC / 1 channel out: 300mA 12VDC		
	<b>Edge Storage</b>	MicroSD Card (up to 256GB) / NAS / FTP / SFTP		
	<b>Interoperability</b>	ONVIF / P2P / CGI / Milestone / Genetec		
<b>Environmental</b>	<b>Power Supply</b>	12VDC (±30%) / PoE (802.3af) / ePoE		
	<b>Power Consumption</b>	<15.2W (heater + infrared)	<7.9W	
	<b>Operating Conditions</b>	-40°C ~ +60°C, ≤95% RH	-30°C ~ +60°C, ≤95% RH	
	<b>Ingress Protection</b>	IP67		
	<b>Vandal Resistance</b>	IK10		
	<b>Housing</b>	Metal, Plastic		
	<b>Pan/Tilt/Rotation</b>	Pan: 0° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°		
<b>Dimensions</b>	273mm x 95mm x 95mm	273.2mm x 95mm x 95mm		
<b>Net Weight</b>	1.11kg	1.51kg		

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

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