

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



# The best in AI surveillance.

## Ultimate AI Series: Motorised AI face capture turret in 4.0MP & 8.0MP

Ultimate AI Series detects and captures faces from footage using machine-learned algorithms, preparing face data for use with an AI NVR face database. This enables up to 16 channels of face recognition. The series also features intelligent perimeter protection and people counting to provide meaningful video event notifications in real-time.

- Stream up to 8.0MP (3840 x 2160) at 25fps
- Up to 40m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (140dB)
- 3D digital noise reduction & auto white balance
- MicroSD slot for recording at the edge up to 256GB
- Internal face detection & capture to extend recognition
- Perimeter Protection to identify people & vehicles
- Intelligent AI-enhanced people counting for retail capacity management and flow control
- Extend PoE up to 800m (*requires ePoE NVR/switch*)



Superb Image Performance



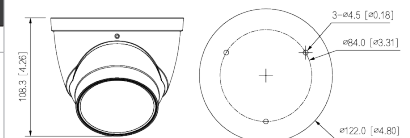
AI-Enhanced Face Detection



People Counting & Flow Control

Specifications		4.0MP Motorised Turret		8.0MP Motorised Turret		
Camera	Ordering Information	VSIPU-4DIRMG-I		VSIPU-8DIRMG-I		
	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			> 56dB		
Lens	Infrared System	2 x Infrared LED, 40m range, Auto/manual on/off control		2 x Infrared LED, 50m range, Auto/manual on/off control		
	Lens / Iris	2.7 ~ 12mm F1.8 Motorised Varifocal Lens with Auto Iris		2.7 ~ 12mm F1.4 Motorised Varifocal Lens with Auto Iris		
	Field of View	Horizontal: 114°~ 47°, Vertical: 62°~ 26°, Diagonal: 136°~54°		Horizontal: 110.4°~ 45°, Vertical: 57.8°~ 25.2°, Diagonal: 133.8° ~ 51.8°		
DORI	Focus	Auto Focus / 1.2m Min. Focus Distance		Auto Focus / 1.0m Min. Focus Distance		
	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)		
Video	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) / 2.0MP (1 ~ 50fps)		8.0MP (1 fps ~ 25fps)	
		Sub	D1 (1 ~ 50fps)		D1 (1 fps ~ 25fps)	
		Third	1080p (1 ~ 25fps)		1080p (1 fps ~ 25fps)	
	Video Compression	H.265+ / H.265 / H.264+ / H.264 / H.264B / H.264H / MJPEG		H.265+ / H.265 / H.264+ / H.264 / H.264B / H.264H / MJPEG		
	Bit Rate	H.264: 32Kbps~8192Kbps / H.265: 19Kbps~8192Kbps		H.264: 32 kbps~8192 kbps / H.265: 32 kbps~8192 kbps		
	Bit Rate Control			Constant bit rate (CBR) / Variable bit rate (VBR)		
	Day/Night			Auto (ICR) / Color / B&W		
	Lighting Compensation	BLC / HLC / WDR (140dB)		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°)			
IVS	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	Internal Face Detection & Capture to add up to 10 channels of Face Detection with AI NVR (16 total)				
	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				
Network	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		IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP		
	Streaming Method	Multicast				
Interface	Max. User Access	20 Users				
	Audio Interface	Built in MIC / Audio Compression - PCM; G.711a; G.711Mu; G.726; G.723				
	Alarm Interface	N/A				
	RS485	N/A				
	Edge Storage	MicroSD Card (up to 256GB) / NAS / FTP / SFTP				
Environmental	Interoperability	ONVIF / P2P / CGI / Milestone / Genetec				
	Power Supply	12V DC (±30%)/PoE (802.3af)/ePoE				
	Power Consumption	<6.9W		<7.3W		
	Operating Conditions	-30°C ~ +60°C, ≤95% RH				
	Ingress Protection	IP67		IP67		
	Vandal Resistance	N/A				
	Housing	Metal, Plastic		Metal		
	Pan/Tilt/Rotation	Pan: 0° ~ 360°, Tilt: 0° ~ 78°, Rotation: 0° ~ 360°		Pan: 0° ~ 355°, Tilt: 0° ~ 80°, Rotation: 0° ~ 355°		
Dimensions	Ø122mm x 108mm		108.3 mm x Ø122 mm			
Net Weight	0.74kg		0.685kg			

Application						
Junction Mount		Wall Mount		Corner Mount	Pole Mount	Ceiling Mount
VSBKTA130E	VSBKTA137	VSBKTB203W	VSBKTA106 + VSBKTB305W	VSBKTA106 + VSBKTB305W + VSBKTA151	VSBKTB203W + VSBKTA152E	VSBKTA106 + VSBKTB220C (+VSBKTA117 extension)



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