



The best in AI surveillance.

Ultimate AI Series: Motorised AI face detection domes in 4.0MP & 8.0MP

Applying a deep learning algorithm, the Ultimate AI Series detects, captures and analyses faces & vehicles to use in face recognition, intelligent searching and perimeter protection, all while delivering superb image performance with low light colour and automatic image adjustment.

- Stream up to 8.0MP (3840 x 2160) at 25fps
- H.265 encoding for efficient storage & streaming
- Up to 40m infrared range; true day/night (auto ICR)
- MicroSD slot for recording at the edge up to 256GB
- Up to 16 channels of face recognition with an AI NVR
- Detect faces and receive face alerts in real time
- Search footage by face image or by facial attributes
- Smart motion detection and tripwire/intrusion perimeter protection rules for reliable alerts
- Extend PoE up to 800m (*requires ePoE NVR/switch*)



Superb Image Performance



AI-Enhanced Face Detection



Extended PoE up to 800m

Specifications		4.0MP Motorised Vandal Dome		8.0MP Motorised Vandal Dome		
Camera	Ordering Information	VSIPU-4DIRM-I: Standard		VSIPU-8DIRM-I: Standard		
	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		2GB / 4GB		
	Min Illumination	0.003 Lux / F1.8 (Color)		0.003 Lux / F1.2 (Color)		
	S/N Ratio	> 50dB				
Lens	Infrared System	3 x Infrared LED, 40m range, Auto/manual on/off control				
	Lens / Iris	2.7 ~ 12mm F1.8 Motorised Varifocal Lens with Auto Iris		2.7 ~ 12mm F1.2 Motorised Vari-focal Lens with Auto Iris		
	Field of View	Horizontal: 114°~47°, Vertical: 62°~26°		Horizontal: 114°~47°, Vertical: 59°~27°		
DORI	Focus	Auto Focus / 1.2m Min. Focus Distance		Auto Focus / 1m Min. Focus Distance		
	Detect (25px/m)	58m (wide) / 131m (tele)		87m (wide) / 187m (tele)		
	Observe (63px/m)	23m (wide) / 52m (tele)		35m (wide) / 75m (tele)		
	Recognise (125px/m)	12m (wide) / 26m (tele)		17m (wide) / 37m (tele)		
	Identify (250px/m)	6m (wide) / 13m (tele)		9m (wide) / 19m (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) / 3.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps)		8.0MP (1 ~ 25fps)	
		Sub	D1 (1 ~ 50fps)		D1 (1 ~ 25fps)	
		Third	1080p (1 ~ 16fps)		1080p (1 ~ 25fps)	
	Video Compression	H.265, H.264, H.264B, H.264H, MJPEG				
	Bit Rate	H.264: 32Kbps~8192Kbps / H.265: 19Kbps~8192Kbps		H.264: 32Kbps ~ 16384Kbps / H.265: 12Kbps ~ 16384Kbps		
	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				
IVS	Noise Reduction	3D DNR				
	Picture Control	Mirror / Flip (0°, 90°, 180°, 270°) (8.0MP supports 90° & 270° at 1080p resolution)				
	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 (recognition of human or vehicle), fast moving, loitering detection, parking and gathering detection				
	Face Detection	Face image recognition and detection up to 10 channels with AI NVR				
	Face Attributes	Age, gender, expression, glasses, mouth mask and facial hair				
	People Counting	Supports line crossing/region/queuing people counting. 4 independent access detection / 4 dependent access detection				
	Heat Map	Yes		N/A		
	Event Trigger	Motion Detection, Video Tampering, Scene Changing, Network Disconnection, IP Address Conflict, Illegal Access, Storage Anomaly		N/A		
	Intelligent Search	With a smart NVR intelligent search. Search tripwire/ intrusion events by people or vehicle. Or 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		HTTP; HTTPS; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour		
	Streaming Method	Unicast / Multicast				
	Max. User Access	20 Users				
Interface	Video Interface	N/A				
	Audio Interface	1 input (RCA Port) / 1 output (RAC Port) / Audio Compression - G.711a; G.711Mu; G.726; G.723				
	Alarm Interface	1 channel in: 5mA 5VDC / 1 channel out: 300mA 12VDC		3 channel in: 5mA 5VDC / 2 channel out: 1000mA 30VDC / 500mA 50VDC		
	RS485	N/A		1 (Bit rate: 1200bps~115200bps)		
	Edge Storage	MicroSD Card (up to 256GB) / NAS / FTP / SFTP				
Environmental	Interoperability	ONVIF / P2P / CGI / Milestone / Genetec				
	Power Supply	12VDC / 24VAC / PoE (802.3af)(class 4)				
	Power Consumption	<18.7W		<15.7W		
	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°				
Application	Dimensions	Ø159mm x 118mm		Ø158mm x 129mm		
	Net Weight	0.95kg		1.60kg		
	Dimensions and Mounting Options	<p>4.0MP</p>	<p>8.0MP</p>	<p>Ceiling Mount VSBKTA101 + VSBKTB300C</p>	<p>Junction Mount (4.0MP only) VSBKTA138</p>	<p>In-Ceiling Mount (4.0MP only) VSBKTB201C</p>

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