



# The best in AI surveillance.

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

The 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 45m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (140dB)
- 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)
- Heater for cold environments (4.0MP model only)



Superb Image Performance



AI-Enhanced Face Detection



People Counting & Flow Control

Specifications		4.0MP Motorised Vandal Dome	8.0MP Motorised Vandal Dome	
<b>Ordering Information</b>		<b>VSIPU-4DIRM-I</b> : Standard	<b>VSIPU-8DIRM-I3</b>	
Camera	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	>56dB	
	Infrared System	3 x Infrared LED, 45m range, Auto/manual on/off control	3 x Infrared LED, 40m range, Auto/manual on/off control	
Lens	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°~56°	Horizontal: 110°~45°, Vertical: 58°~25°, Diagonal: 134°~52°	
	Focus	Auto Focus / 1.2m Min. Focus Distance	Auto Focus / 1.0m Min. Focus Distance	
DORI	Detect (25px/m)	58m (wide) / 131m (tele)	86m (wide) / 196m (tele)	
	Observe (63px/m)	23m (wide) / 52m (tele)	34m (wide) / 78m (tele)	
	Recognise (125px/m)	12m (wide) / 26m (tele)	17m (wide) / 39m (tele)	
	Identify (250px/m)	6m (wide) / 13m (tele)	9m (wide) / 20m (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)	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.264B, H.264H, MJPEG		
	Bit Rate	H.264: 32Kbps~8192Kbps / H.265: 32Kbps~8192Kbps		
	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 NR			
Picture Control	Mirror / Flip (0°, 90°, 180°, 270°) (8.0MP supports 90° & 270° at 1080p resolution)			
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		
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	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		
	Max. User Access	20 Users		
Interface	Audio Interface	1 input (RCA Port) / 1 output (RCA Port) / Audio Compression - G.711a; G.711Mu; G.726; G.723		
	Alarm Interface	1 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		
Environmental	Power Supply	12 VDC (±30%) / 24 VAC (±30%); PoE+ (802.3at) / ePoE	12 VDC (±25%) / 24 VAC (±30%) / PoE (802.3af)/ePoE	
	Power Consumption	<18W (Heater on)	< 10.1W	
	Operating Conditions	-40°C ~ +60°C, ≤95% RH (Heater on)	-30°C ~ +60°C, ≤95% RH	
	Ingress Protection	IP67		
	Vandal Resistance	IK10		
	Housing	Metal, Plastic		
	Pan/Tilt/Rotation	Pan: 0° ~ 355°, Tilt: 0° ~ 65°, Rotation: 0° ~ 355°	Pan: 0° ~ 355°, Tilt: 0° ~ 80°, Rotation: 0° ~ 355°	
Dimensions	Ø159mm x 118mm			
Net Weight	0.95kg			

Application								
Junction Box	Wall Mount		Corner Mount	Pole Mount		In-Ceiling Mount	Ceiling Mount	Parapet Mount
VSBKTA138	VSBKTB211W	VSBKTA101 + VSBKTB302S	VSBKTA101 + VSBKTB302S + VSBKTA151	VSBKTB211W + VSBKTA152E	VSBKTA101 + VSBKTB302S + VSBKTA152E	VSBKTB201C (4.0MP only)	VSBKTA101 + VSBKTB300C (+ VSBKTA112 + VSBKTA113 ext.)	VSBKTA101 + VSBKTB303S

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