



The best in AI surveillance.

Ultimate AI Series: Motorised AI domes 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 40m 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



Superb Image Performance



AI-Enhanced Face Detection



People Counting & Flow Control

Specifications		4.0MP Motorised Vandal Dome	8.0MP Motorised Vandal Dome	
Ordering Information		VSIPU-4DIRM-I: Standard	VSIPU-8DIRM-I2	
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)	0.003 Lux / F1.2 (Color)	
	S/N Ratio	> 56dB		
	Infrared System	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 F1.2 Motorised Varifocal Lens with Auto Iris	
	Field of View	Horizontal: 114°~47°, Vertical: 62°~26°, Diagonal: 136°~56°	Horizontal: 112.1°~47.5°, Vertical: 58°~26.6°, Diagonal: 137.5°~54.6°	
	Focus	Auto Focus / 1.2m Min. Focus Distance	Auto Focus / 1.75m Min. Focus Distance	
DORI	Detect (25px/m)	58m (wide) / 131m (tele)	88m (wide) / 187m (tele)	
	Observe (63px/m)	23m (wide) / 52m (tele)	35m (wide) / 79m (tele)	
	Recognise (125px/m)	12m (wide) / 26m (tele)	18m (wide) / 37m (tele)	
	Identify (250px/m)	6m (wide) / 13m (tele)	9m (wide) / 19m (tele)	
	Resolution	4.0MP (2688 x 1520) to CIF (352 x 288)	8.0MP (3840 x 2160) to CIF (352 x 288)	
Video	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	H.264: 3kbps-20480 kbps / H.265: 3kbps-20480 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 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/Queueing 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	1 input (terminal) / 1 output (terminal) / Audio Compression - PCM; G.711a; G.711Mu; G.726; G.723	
	Alarm Interface	1 channel in: 5mA 5VDC / 1 channel out: 300mA 12VDC	3 channel in: 5mA 3-5VDC / 2 channels out: 1,000 mA 30 VDC / 500 mA 50 VDC	
	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)	<15.9W (intelligent function)	
	Operating Conditions	-40°C ~ +60°C, ≤95% RH (Heater on)		
	Ingress Protection	IP67		
	Vandal Resistance	IK10		
	Housing	Metal, Plastic	Metal	
	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	1.10kg		

Application

<p>VSIPU-4DIRM-I</p>	<p>VSIPU-4DIRM-I2</p>	Ceiling Mount		In-Ceiling Mount
		VSBKTB300C (+ VSBKTA112 + VSBKTA113 ext.)		Junction Box
			Wall Mount	Pole Mount
		VSBKTA138	VSBKTB211W	VSBKTB211W + VSBKTA152E

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