

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



The best in AI surveillance.

Ultimate AI Series: Motorised AI face capture domes 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 (120dB)
- 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 prevents condensation in 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-4DIRM-IZ: Zoom Lens	
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)		0.002 Lux / F1.6 (Color)	
S/N Ratio				> 50dB	
Infrared System		3 x Infrared LED, 40m range, Auto/manual on/off control		3 x Infrared LED, 40m range, Auto/manual on/off control	
Lens / Iris		2.7 ~ 12mm F1.8 Motorised Varifocal Lens with Auto Iris		8 ~ 32mm F1.6 Motorised Varifocal Lens with Auto Iris	
Field of View		Horizontal: 114°~47°, Vertical: 62°~26°		Horizontal: 43°~15°, Vertical: 23°~8°	
Focus		Auto Focus / 1.2m Min. Focus Distance		Auto Focus / 2.5m Min. Focus Distance	
DORI					
Detect (25px/m)		58m (wide) / 131m (tele)		151m (wide) / 400m (tele)	
Observe (63px/m)		23m (wide) / 52m (tele)		61m (wide) / 160m (tele)	
Recognise (125px/m)		12m (wide) / 26m (tele)		30m (wide) / 80m (tele)	
Identify (250px/m)		6m (wide) / 13m (tele)		15m (wide) / 40m (tele)	
Resolution		4.0MP (2688 x 1520) to CIF (352 x 288)		8.0MP (3840 x 2160) to CIF (352 x 288)	
Frame Rate		4.0MP (1 ~ 25fps) / 3.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps)		8.0MP (1 ~ 25fps)	
		D1 (1 ~ 50fps)		D1 (1 ~ 25fps)	
		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)	
Smart Scene Adaptive		SSA		N/A	
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°) (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 (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		N/A	
Event Trigger		Motion Detection, Video Tampering, Scene Changing, Network Disconnection, IP Address Conflict, Illegal Access, Storage Anomaly		N/A	
Intelligent Search				Via NVR Smart Search / Search tripwire/intrusion events by people or vehicle, Search footage by face image and face attributes	
Network				RJ-45 (10/100Base-T)	
Protocol		IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; SNMP		HTTP; HTTPS; 8021.x; 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	
Video Interface				N/A	
Audio Interface				1 input (RCA Port)/ 1 output (RAC Port) / Audio Compression - G.711a; G.711Mu; G726; 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	
Interoperability				ONVIF / P2P / CGI / Milestone / Genetec	
Power Supply				12VDC / 24VAC / PoE (802.3af)(class 4)	
Power Consumption		<18.7W (Heater on)		<12.4W	
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° ~ 360°, Tilt: 0° ~ 90°, Rotation: 0° ~ 360°	
Dimensions		Ø159mm x 118mm		Ø158mm x 129mm	
Net Weight		0.95kg		1.60kg	

Application									
Junction Box	Wall Mount		Corner Mount	Pole Mount			In-Ceiling Mount	Ceiling Mount	Parapet Mount
VSBKTA138 (4.0MP only)	VSBKTB210W	VSBKTA101 + VSBKTB302S	VSBKTA101 + VSBKTB302S + VSBKTA151	VSBKTB210W + VSBKTA152E	VSBKTA101 + VSBKTB300C + VSBKTA150	VSBKTA101 + VSBKTB302S + VSBKTA152E	VSBKTB201C (4.0MP only)	VSBKTA101 + VSBKTB300C (+VSBKTA112 + VSBKTA113 ext.)	VSBKTA101 + VSBKTB303S

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