



AI People & Vehicle Detection



Face Capture



People Counting



Long-range zoom plus AI.

Ultimate AI Series: Motorised AI zoom dome with face capture in 4.0MP

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.

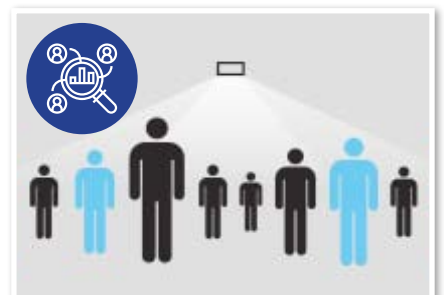
- Stream up to 4.0MP (2688 x 1520) at 25fps
- 8~32mm zoom lens for 43~15° field of view
- Up to 100m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (140dB)
- Internal face detection & capture to extend recognition
- Perimeter Protection to identify people & vehicles
- Intelligent AI-enhanced people counting for retail capacity management and flow control
- Extend PoE up to 800m (*requires ePoE NVR/switch*)
- MicroSD slot for recording at the edge up to 256GB



Superb Image Performance



AI-Enhanced Face Detection



People Counting & Flow Control

Specifications		4.0MP Motorised Vandal Dome	
Ordering Information		VSIPU-4DIRM-IZ: Zoom Lens	
Camera	Image Sensor	1/1.8" 4.0MP Progressive Scan CMOS	
	Effective Pixels	2688 (H) x 1520 (V)	
	RAM / ROM	1GB / 128MB	
	Min Illumination	0.002 Lux / F1.6 (Color)	
	S/N Ratio	> 56dB	
	Infrared System	3 x Infrared LED, 100m range, Auto/manual/Zoomprio on/off control	
Lens	Lens / Iris	8 ~ 32mm F1.6 Motorised Varifocal Lens with Auto Iris	
	Field of View	Horizontal: 43°~15°, Vertical: 23°~8°, Diagonal: 50°~17°	
	Focus	Auto Focus / 2.5m Min. Focus Distance	
DORI	Detect (25px/m)	151.1m (wide) / 400m (tele)	
	Observe (63px/m)	60.7m (wide) / 160m (tele)	
	Recognise (125px/m)	30.3m (wide) / 80m (tele)	
	Identify (250px/m)	15.1m (wide) / 40m (tele)	
Video	Resolution	4.0MP (2688 x 1520) to CIF (352 x 288)	
	Frame Rate	Main	4.0MP (1 ~ 25fps)
		Sub	D1 (1 ~ 25fps)
		Third	1080p (1 ~ 25fps)
	Video Compression	H.265, H.264, H.264B, H.264H, MJPEG	
	Bit Rate	H.264: 32Kbps~8192Kbps / H.265: 19Kbps~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)	
	Smart Scene Adaptive	SSA	
	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°) (Support 90°/270° with 4M resolution and lower)		
IVS	Intelligent Functions	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (8 areas), 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	
	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; SAMBA; PPPoE; 802.1x; SNMP	
	Streaming Method	Multicast	
	Max. User Access	20 Users	
Interface	Video Interface	N/A	
	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	12VDC/24 VAC/PoE (802.3af)/ePoE	
	Power Consumption	<12.4W	
	Operating Conditions	-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°	
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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