



Face Capture



AI People & Vehicle Detection



People Counting

The best in AI surveillance.

Ultimate AI Series: Motorised AI face capture turret 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
- Up to 40m infrared range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (140dB)
- 3D digital noise reduction & auto white balance
- 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*)



People Counting & Flow Control



AI-Enhanced Face Detection



Extended PoE up to 800m

Specifications		4.0MP Motorised Turret	
Ordering Information		VSIPU-4DIRMG-I	
Camera	Image Sensor	1/1.8" 4.0MP Progressive Scan CMOS	
	Effective Pixels	2688 (H) x 1520 (V)	
	RAM / ROM	1GB / 128MB	
	Min Illumination	0.003 Lux / F1.8 (Color)	
	S/N Ratio	> 56dB	
	Infrared System	2 x Infrared LED, 40m range, Auto/manual on/off control	
Lens	Lens / Iris	2.7 ~ 12mm F1.8 Motorised Varifocal Lens with Auto Iris	
	Field of View	Horizontal: 114°~47°; Vertical: 62°~26°	
	Focus	Auto Focus / 1.2m Min. Focus Distance	
DORI	Detect (25px/m)	58m (wide) / 131m (tele)	
	Observe (63px/m)	23m (wide) / 52m (tele)	
	Recognise (125px/m)	12m (wide) / 26m (tele)	
	Identify (250px/m)	6m (wide) / 13m (tele)	
Video	Resolution	4.0MP (2688 x 1520) to CIF (352 x 288)	
	Frame Rate	Main	4.0MP (1 ~ 25fps) / 2.0MP (1 ~ 50fps)
		Sub	D1 (1 ~ 50fps)
		Third	1080p (1 ~ 25fps)
	Video Compression	H.265+ / H.265 / H.264+ / 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)	
	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°)		
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, Storage Anomaly	
Network	Intelligent Search	Via NVR Smart Search / Search tripwire/intrusion events by people or vehicle, Search footage by face image and face attributes	
	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	
	Streaming Method	Unicast / Multicast	
Interface	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; G.726; G.723	
	Alarm Interface	N/A	
	RS485	N/A	
	Edge Storage	MicroSD Card (up to 256GB) / NAS / FTP / SFTP	
	Interoperability	ONVIF / P2P / CGI / Milestone / Genetec	
Environmental	Power Supply	12VDC / PoE (802.3af)	
	Power Consumption	<7.5W	
	Operating Conditions	-30°C ~ +60°C, ≤95% RH	
	Ingress Protection	IP67	
	Vandal Resistance	N/A	
	Housing	Metal, Plastic	
	Pan/Tilt/Rotation	Pan: 0° ~ 360°, Tilt: 0° ~ 78°, Rotation: 0° ~ 360°	
Dimensions	Ø122mm x 108mm		
Net Weight	0.74kg		

		Application									
		Junction Box		Wall Mount		Pole Mount			Ceiling Mount	Corner Mount	
		VSBKTA130E	VSBKTA137	VSBKTB203W	VSBKTA106 + VSBTB305W	VSBKTA106 + VSBTB305W + VSBKTA150	VSBKTA130E + VSBKTA152E	VSBKTA137 + VSBKTA152E	VSBKTB203W + VSBKTA152E	VSBKTA106 + VSBKTB220C (+VSBKTA117 optional extension)	VSBKTA106 + VSBTB305W + VSBKTA151

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