

- 24/7 Colour
- DUAL-LENS Technology
- AI People & Vehicle Detection
- People Counting
- Intruder Deterrence



4.0
MEGAPIXEL

The best in low-light

Ultimate AI Series: Fixed-focal full-colour dual-lens turret in 4.0MP

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 50m light 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*)



Superb Image Performance



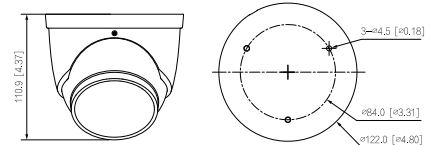
AI-Enhanced Face Detection



People Counting & Flow Control

Specifications		4.0MP Motorised Turret	
Ordering Information		VSIPU-4DIRG-IM	
Camera	Image Sensor	1/1.8" + 1/1.8" 4MP Progressive-Scan CMOS	
	Effective Pixels	2688 (H) x 1520 (V)	
	RAM / ROM	1GB / 128MB	
	Min Illumination	0.0002 Lux / F1.0 (Color)	
	S/N Ratio	> 56dB	
	Infrared System	2 x Infrared LED, 50m range, Auto/manual on/off control	
Lens	Lens / Iris	2.8mm F1.0 Motorised Fixed-Focal Lens	
	Field of View	Horizontal: 97°~ 47°, Vertical: 48°~ 25°, Diagonal: 115°~56°	
	Focus	Fixed Focus / 4m Min. Focus Distance	
DORI	Detect (25px/m)	58.2m	
	Observe (63px/m)	23.3m	
	Recognise (125px/m)	11.6m	
	Identify (250px/m)	5.8m	
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 / DWDR (140dB)	
	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°)		
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	Multicast	
	Max. User Access	20 Users	
Interface	Audio Interface	Built in MIC/ Audio Compression - PCM; G.711a; G.711Mu; G.726; G.723	
	Alarm Interface	1 channel in: 5 mA 3-5 VDC / 1 channel out: 300 mA 12 VDC	
	RS485	N/A	
	Edge Storage	MicroSD Card (up to 256GB) / NAS / FTP / SFTP	
	Interoperability	ONVIF / P2P / CGI / Milestone / Genetec	
Environmental	Power Supply	12V DC (±30%)/PoE (802.3af)/ePoE	
	Power Consumption	≤10.5W	
	Operating Conditions	-30°C ~ +60°C, ≤95% RH	
	Ingress Protection	IP67	
	Vandal Resistance	IK10	
	Housing	Metal, Plastic	
	Pan/Tilt/Rotation	Pan: 0° ~ 360°, Tilt: 0° ~ 78°, Rotation: 0° ~ 360°	
	Dimensions	Ø122mm x 110.9mm	
Net Weight	0.75kg		

Application				
Junction Mount	Wall Mount		Pole Mount	Ceiling Mount
VSBKTA137	VSBKTB203W	VSBKTA106 + VSBKTB305W	VSBKTB203W + VSBKTA152E	VSBKTA106 + VSBKTB220C (+ VSBKTA117 extension)



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