

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.

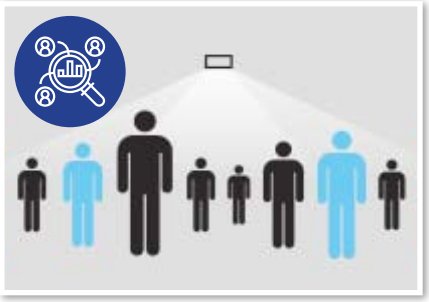
- Stream up to 4.0MP (2688 x 1520) at 25fps
- Up to 50m light range; true day/night (auto ICR)
- Back/highlight compensation & true WDR (140dB)
- 3D digital noise reduction & auto white balance
- MicroSD slot for recording at the edge up to 256GB
- Internal face detection & capture to extend recognition
- 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



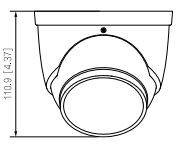
AI-Enhanced Face Detection

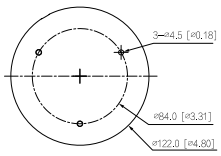


People Counting & Flow Control

	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
	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
	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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