



AI Crowd & Vehicle Density

# AI Panoramic surveillance.

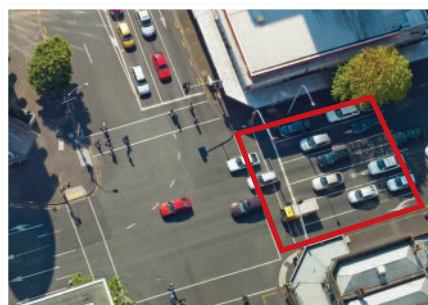
Panorama AI Series: 180° panoramic view, multi-sensor camera in 8.0MP

The Panorama AI Series is designed to perform the duties of multiple cameras and uses a unique configuration of multiple sensors and lenses to deliver seamless 180° surveillance coverage. This series features person & vehicle detection via AI, and can be used to count people in crowds, map people activity with heat mapping, monitor vehicle count and set maximum thresholds to trigger alerts on people/vehicle congestion.

- 4 x 2.0MP 1/2.8" sensors; stream 4096x 1800 at 25fps
- 30m range 180° infrared range & auto ICR day/night
- Intelligent AI detection to identify people and vehicles
- AI detect crowds, set thresholds & map on heatmap
- AI detect vehicle density & set vehicle count thresholds
- H.265 high efficiency video compression support
- MicroSD card slot for edge recording up to 256GB
- Audio and alarm interface input/outputs
- Digital WDR, BLC / HLC and 3D noise reduction
- IP67 weather & IK10 vandal resistant housing



180° Panoramic View & Infrared



Crowd & Vehicle Density Detection



Superb Low Light Performance

Model		VSIPPA-8BIR-I	
Camera	Image Sensor	4 x 1/2.8" 2.0MP Progressive Scan CMOS	
	Effective Pixels	4096 (H) x 1800 (V)	
	RAM / ROM	2GB / 4GB	
	Min. Illumination	Colour: 0.002 Lux (F1.6, 30IRE) / B/W: 0.0002 Lux (F1.6, 30IRE) / 0 Lux (illuminator on)	
	S/N Ratio	>56dB	
Lens	Infrared System	8 x Infrared LED, 30m range, 180° IF, Auto/Manual on/off control	
	Lens / Iris	2.8mm F1.6 Fixed Lens	
	Field of View	Horizontal: 180°, Vertical: 90°	
	Focus	Fixed	
Video	DORI Distance	Detect: 38.6m / Observe: 15.4m / Recognise: 7.7m / Identify: 3.9m	
	Resolution	Configurable from 4096 x 1800 to 1280 x 560	
	Frame Rate	Main	4096 x 1800 (1~25fps)
		Sub	1024 x 452 (1~25fps)
		Third	1920 x 832 (1~25fps)
	Video Compression	H.265+; H.264+; H.265; H.264; H.264H; H.264B; MJPEG (supported by the sub stream)	
	Bit Rate	H.264: 9 kbps ~ 17664 kbps / H.265: 9 kbps ~ 17664 kbps	
	Bit Rate Control	Constant bit rate (CBR)/ Variable bit rate (VBR)	
	Day/Night	Auto (ICR) / Colour / B&W	
	Lighting Compensation	BLC / HLC / DWDR	
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual / Regional Custom		
IVS	Gain Control	Auto/Manual	
	Noise Reduction	3D DNR	
	Intelligent Functions	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Defog, Smart Infrared, People Counting, Heat Map, E-PTZ, Tripwire, Intrusion	
Network	AI Functions	<b>Crowd Density:</b> Crowd mapping, global people counting, people counting in area <b>Vehicle Density:</b> Vehicle density, parking upper limit, vehicle congestion alarm	
	Ethernet	RJ-45 (10/100/1000 Base-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; Bonjour	
	Streaming Method	Unicast / Multicast	
	Max. User Access	20 (Total bandwidth: 80Mbps)	
Interface	Video Interface	N/A	
	Audio Interface	1 Input, 1 Output (RCA) / Compression: G.711A, G.711Mu, G.726, G.723	
	Alarm Interface	2 Inputs (5mA 3V~5V DC) / 2 Output (1,000mA 30V DC/500mA 50V DC)	
	RS485	1 Input (baud rate range: 1200bps ~115200bps)	
	Edge Storage	FTP; SFTP; Micro SD card (support max. 256GB); NAS	
	Interoperability	ONVIF / CGI / P2P / Milestone / Genetec	
Environmental	Power Supply	12V DC/24V AC/PoE+ (802.3at)	
	Power Consumption	<b>Basic Power Consumption:</b> 5W (12V DC); 6.3W(24V AC); 6.3W (PoE) <b>Max. Power Consumption (ICR + IR LED):</b> 13.7W (12V DC);16.2W(24V AC); 16.2W (PoE)	
	Operating Conditions	-40°~60° C / Less than 95% RH	
	Ingress Protection	IP67	
	Vandal Resistance	IK10	
	Housing	Metal body, PVC lens cover	
	Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~90°; Rotation: 0°~360°	
Dimensions	298mm x 173mm x 121mm		
Net Weight	2.86 kg		

Panorama Bullet Installation	
Diagrams	
Mounting Options	
	<p>Wall or Ceiling Mount</p> <p>Junction Box Wall Mount VSBKTA120</p> <p>Junction Box + Pole Mount VSBKTA120 + VSBKTA150</p>

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