



# Panoramic IP surveillance.

## Panorama Series: 180° view multi-sensor camera in 8.0MP

Designed to perform the duties of multiple cameras, the panorama series uses a unique configuration of multiple sensors and lenses to deliver 180° of surveillance coverage. Simplify entire surveillance systems with one camera.

- 4096 pixels horizontal panoramic images at 25fps
- Unique multi-sensor & lens delivers 180° field of view
- Panoramic image seamlessly stitched in-camera
- 30m range 180° view infrared & auto ICR day/night
- Face detection & video analytics, eg: heat map
- MicroSD card slot for edge recording up to 128GB
- H.265 high efficiency video compression support
- Audio and alarm interface input/outputs
- BLC / HLC and 3D digital noise reduction
- IP67 weather & IK10 vandal resistant housing



Wide Panoramic View & Infrared



Efficient Video Storage & Streaming



Vandal & Weather Resistant

Model		CAM428						
Camera	Image Sensor	4 x 1/2.8" 2.0MP Progressive Scan CMOS						
	Effective Pixels	4096 (H) x 1800 (V)						
	RAM / ROM	1024MB / 128MB						
	Min. Illumination	Colour: 0.007 Lux (F2.0, 1/3s) / 0.05 Lux (F2.0, 1/30s), 0 Lux/F2.0 (B/W)						
	S/N Ratio	> 50dB						
	Infrared System	6 x Infrared LED, 30m range, Auto/Manual on/off control						
Lens	Lens / Iris	2.8mm F2.0 Fixed Lens						
	Field of View	Horizontal: 180°, Vertical: 80°						
	Focus	Fixed						
Video	Resolution	4096 x 1800 (approx. 7.4MP) to 1024 x 452 (approx. 0.5MP)						
	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.265 / H.264+ / H.264						
	Bit Rate	H.265: 9Kbps ~ 10Mbps / H.264: 24Kbps ~ 16Mbps						
	Bit Rate Control	Constant bit rate (CBR) / Variable bit rate (VBR)						
	Day/Night	Auto (ICR) / Color / B&W						
Lighting Compensation	BLC / HLC / DWDR							
IVS	White Balance	Auto / Natural / Street Lamp / Outdoor / Manual						
	Gain Control	Auto / Manual						
	Noise Reduction	3D DNR						
	Intelligent Functions	Motion Detection (4 zones), Region of Interest (4 zones), Privacy Masking (4 zones), Smart Infrared, Tripwire, Intrusion, Object Abandoned/Missing, Face Detection, People Counting, Heat Map, E-PTZ						
	Ethernet	RJ-45 (100/1000Base-T)						
	Protocol	HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; SNMP; QoS; UPnP; NTP						
Network	Streaming Method	Unicast / Multicast						
	Max. User Access	10 Users / 20 Users						
	Video Interface	1 Port (for adjustment only)						
	Audio Interface	1 Input, 1 Output / Compression: G.711a / G.711Mu / AAC / G.726						
	Alarm Interface	2 Inputs / 2 Output						
	RS485	N/A						
	Edge Storage	MicroSD Card (up to 128GB) / NAS / Local PC						
	Interoperability	ONVIF / PSIA / CGI						
Interface	Power Supply	24VAC / PoE+ (802.3at)						
	Power Consumption	<25.5W						
	Operating Conditions	-40° ~ +60° C / Less than 95% RH						
	Ingress Protection	IP67						
	Vandal Resistance	IK10						
	Housing	Metal						
	Pan/Tilt/Rotation	Pan: 0°~355° ; Tilt: 0°~75° ; Rotation: ±20°						
	Dimensions	Φ212mm x 169.5mm						
Environmental	Net Weight	3.60kg						
	Diagrams							
	Accessories							
	Models	Included accessory (MB1035)	Ceiling Mount (MB1035+ MB1028)	Junction Mount (MB1035+ MB1045+ MB1038)	Power Box Mount (MB1035+ MB1045+ MB1037)	Pole Mount (MB1035+ MB1045+ MB1025)	Corner Mount (MB1035+ MB1045+ MB1026)	Parapet Mount (MB1035+ MB1063)

Your local VIP Vision™ IP solutions professional: