



Total coverage, every angle.

PTZ AI Series: PTZ positioning camera with AI powered video analytics

Experience clear large-scale surveillance, the vandal-resistant AI PTZ combines the flexibility and coverage of PTZ with the power of smart AI technology. Featuring Perimeter Protection, this PTZ can identify people & vehicles during motion detection to prevent false alarms, providing reliable real-time alerts and analytics.

- Stream up to 2.0MP (1920 x 1080) at 50fps
- 25x optical zoom lens (59.2° ~ 2.4° viewing angles)
- Low light colour performance at 0.005lx; 150m IR
- Auto tracking with intelligent video functions
- Perimeter Protection to identify people & vehicles
- Combine Perimeter Protection with Tripwire/Intrusion to prevent false alarms, all using any VIP Vision NVR
- MicroSD slot for recording at the edge up to 256GB
- Supports Power over Ethernet (802.3af) or 24VAC
- IP67 weather rated & lightning proof housing



25x

Up to 25x Lossless Optical Zoom



**180°
Tilt**

**360°
Pan**

Complete Pan-Tilt Area Coverage



Smart Perimeter Protection

Specifications		2.0MP AI PTZ Positioning Camera						
Ordering Information		CAM490: Standard						
Camera	Image Sensor	1/2.8" 2.0MP Progressive Scan CMOS						
	Effective Pixels	1920 (H) x 1080 (V)						
	RAM / ROM	1GB / 4GB						
	Min Illumination	0.005 Lux/F1.6 (Color), 0.0005 Lux/ F1.6 (B/W), 0 Lux (IR on)						
	S/N Ratio	>55dB						
Lens	Infrared System	4 x Infrared LED, 150m range, Zoom Prio / Manual / OFF on/off control						
	Lens / Iris	4.8 ~ 120mm F1.6 ~ F3.5 Motorised Lens with Auto Iris						
	Field of View	Horizontal: 61~2.8°, Vertical: 33.2°~1.7° (25x Optical Zoom)						
DORI	Focus	Auto/Semi-Auto /Manual / 0.1 ~ 1.5m Min. Focus Distance						
	Detect (25px/m)	1655m						
	Observe (63px/m)	657m						
	Recognise (125px/m)	331m						
	Identify (250px/m)	166m						
PTZ	Pan / Tilt Range	Pan: 0 ~ 360° / Tilt: -90 ~ 90°						
	PTZ Speed	Preset: Pan: 160°/s; Tilt: 110°/s Manual: Pan: 0.1° ~ 120°/s; Tilt: 0.1° ~ 75°/s						
	Modes / Presets	Up to 300 presets / 8 tour						
	Start-up Action	Auto-restore to previous PTZ/lens status						
	Auto Tracking	Supports						
Video	Resolution	1080p (1920 x 1080) to CIF(352 x 288)						
	Frame Rate	Main	1080p (1 ~ 50fps)					
		Sub	D1/ CIF (1 ~ 50fps)					
		Third	1080p/ 960p/ 720p/ D1/ CIF (1 ~ 50fps)					
	Video Compression	H.265; H.264; H.264B; H.264H; MJPEG (Sub Stream); H.265+; H.264+						
	Bit Rate	H.264 /H.265: 3 ~ 20480Kbps						
	Bit Rate Control	Constant bit rate (CBR) / Variable bit rate (VBR)						
	Day/Night	Auto (ICR) / Color / B&W						
	Lighting Compensation	BLC / HLC / WDR (120dB)						
	White Balance	Auto / Indoor / Outdoor / Track / Manual / Sodium Lamp / Natural Light /Street Lamp						
	Gain Control	Auto / Manual						
	Noise Reduction	2D / 3D						
Picture Control	Flip 180°							
IVS	Intelligent Functions	Abandoned/Missing Object, Motion Detection, Region of Interest, Electronic Image Stabilisation, Privacy Masking (24 zones), Defog						
	Perimeter Protection	Tripwire & Intrusion (Add recognition of humans & vehicles), Fast Moving Detection, Loitering Detection, Parking & Gathering Detection						
	Event Trigger	Motion Detection, Video Tampering , Audio Detection, 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						
Network	Ethernet	RJ-45 (10Base-T/100Base-TX)						
	Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; SNMPv1/v2c/v3 (MIB-2); RTCP; RTMP						
	Streaming Method	Unicast / Multicast						
	Max. User Access	20 Users						
	Video Interface	N/A						
Interface	Audio Interface	1 Input, 1 Output / Supports Two-way Audio / Compression: G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723						
	Alarm Interface	2 Inputs / 1 Output / Alarm Linkage: Capture; Preset; Tour; Pattern; SD Card Record; Trigger Digital Output; Client Electronic Map; Send Email						
	RS485	N/A						
	Edge Storage	MicroSD Card (up to 256GB) / FTP / NAS						
Environmental	Interoperability	ONVIF (Profile S/ Profile G) / CGI						
	Power Supply	12VDC 4A ± 10%/ PoE (802.3af)						
	Power Consumption	<14W / <23W (IR on, PTZ operations)						
	Operating Conditions	-40° ~ +70° C / ≤95% RH						
	Ingress Protection	IP67						
	Protection	TVS 8000V Lightning Proof / Surge Protection / Voltage Transient Protection						
	Housing	Metal						
Installation	Pan/Tilt/Rotation	N/A						
	Dimensions	161 x 135 x 292mm						
	Net Weight	3.6kg						
	Dimensions & Mounting Options		<table border="1"> <thead> <tr> <th>Included Accessories</th> <th>Wall Mount</th> <th>Junction Mount</th> </tr> </thead> <tbody> <tr> <td>12VDC/4A Power Adapter</td> <td>MB1065</td> <td>VSBKTA720</td> </tr> </tbody> </table>	Included Accessories	Wall Mount	Junction Mount	12VDC/4A Power Adapter	MB1065
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Your local VIP Vision™ IP solutions professional: