

Campro

CB-ED504P-AZ (ODM-311)

Face Detection & Perimeter Protection

5MP AI-Lite Darkfighter Vari-Focal Eyeball Camera



Model No.	CB-ED504P-AZ (ODM-311)
Digital Video Processor	
Sensor	1/2.7" 5MP CMOS Sensor
RAM & Flash	256MB RAM / 128MB ROM
Minimum Illumination	0.0002Lux@F1.2(AGC ON), 0 Lux (IR on)
Shutter Speed	1/3 s to 1/100, 000 s
Day / Night	Auto, Dual IR-Cut Filter, D/N Sensitive Switch / Mixed Mode Switch
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°
Lens	
Lens	2.7-13.5mm Motorized Auto Focus Lens
Max. Aperture Ratio	F No. 1.6 (W) ~ 3.3(T)
Min. Object Distance	0.3M~INF(W),1.5M~INF(T)
Lens Mount	M12
Max. Aperture	F1.6
Iris Type	Auto Iris
Focal Length & FOV	
Lens	2.7~13.5mm
Angle of View (H)	101° ~ 28°
Angle of View (V)	71° ~ 21°
Angle of View (O)	135° ~ 35°
DORI	

DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	2.7mm	44.1	17.7	8.8	4.4
	3.6mm	58.9	23.6	11.8	5.9
	6.0mm	82.8	33.1	16.6	8.3
	13.5mm	144.8	57.9	29.0	14.5
Illuminator					
Supplement Light Type	IR Led*2 up to 40M / 850nm				
Supplement Light Range	40M				
Illuminator Control	Auto / Manual				
Smart IR	Supported				
Video					
Max Resolution	2880*1620@25/30fps				
Main Stream	30fps (5MP: 2880*1620, 4MP: 2592*1520, 3MP: 2304*1296, 2MP: 1920*1080, 960P: 1280*960, 720P: 1280*720)				
Sub Stream	30fps (D1, 640*480, 320*240)				
Third Stream	30fps (1280*720,640*480, 320*240)				
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265+/H.265/H.264+/H.264/MJPEG Third stream: H.265+/H.265/H.264+/H.264				
Video Bit Rate	H.265: 3 Kbps~20480 Kbps / H.264: 3 Kbps~20480 Kbps				
U-code	Supported				
Bit Rate Control	CBR / VBR				
Scalable Video Coding (SVC)	H.265 and H.264 Encoding (H.265+ (Ultra H.265)/H.265/H.264+/H.264/MJPEG)				
Audio					
Audio Encoding	G.711a, G.711Mu, G.726, G.726ASF				
Audio Bite Rate	Minimum 64 Kbps or Higher				
Reduce Echo	Supported				
Noise Filtering	Supported				
Built-in MIC	Supported				
Built-in Speaker	Supported				
Two-way Audio	Supported (Built in Microphone & Speaker)				
Other Audio Function	Support Auto Gain, Audio Input/Output Volume				
Network					
Network Protocol	DHCP, DNS, DDNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4, IPv6, NTP, ONVIF, P2P, PPPOE, QoS, RTP, RTSP, SMTP, SNMP, TCP/IP, UDP, UPnP, 802.1X				
Protocol	ONVIF / CGI / P2P				
Simultaneous Live View	Up to 16 channels				
API	Open Network Video Interface Profile S, G, T, SDK				
User/Host	20 User (Total bandwidth: 80M), 2 user levels: administrator and user				
Security	Password protection, complicated password, HTTPS Encryption, 802. 1X Authentication (EAP-MD5), Watermark, Basic and Digest, Authentication for HTTP/HTTPS, WSSE and Digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, security				

	Audit log, TLS 1.2, TLS 1.3, Host Authentication (MAC address)
Video Management Software	IE / Web / PC Client Software / App
Mobile Client	iOS, Android
Web Browser	Plug-in required live view: IE 10+, Plug-in free live view: Chrome 57.0+, Firefox 52.0+, Local service: Chrome 57.0+, Firefox 52.0+
Smooth Streaming	Yes
Image	
OSD	Minimum 4 OSDs
Privacy Mask	Up to 4 Areas (programmable polygon privacy masks)
ROI	Support 8 Areas
Corridor Mode	Supported
Corridor Pattern	Standard / Gorgeous
WDR	True WDR, ≥140dB
DNR	3D DNR (Auto / Manual)
S/N Ratio	≥ 56dB
BLC / White Balance	Auto / Lock White Balance / Fluorescent Lamp / Filament Lamp / Fluorescent Lamp / HM
Image Control	Brightness, Contrast, Saturation, Sharpness
Gain Control	Auto
Flip	Normal / Vertical / Horizontal / 0° / 90° / 180° / 270°
Mirror	Supported
Highlight Compensation	Supported
FLC	FLC Supported
Backlight Compensation	BLC Supported
Suppression	HLC Supported
Penetrating Fog	Supported
Vernier Focusing	Supported
All Electric Rectifier	Supported
Interface	
Audio	1CH Input / 1CH Output
Alarm	1CH Input / 1CH Output
LAN Ports	RJ45*1, 10M /100M Base-T
Storage	Support Max. 256G Micro SD / SDHC / SDXC(FAT32), FTP
Event	
Motion Detection	Multiple Detection Zones, Variable Sensitivity Levels
Snapshot	Support JPEG Format
Security Features	Pass word, Watermark
OSD	Channel Name, Date & Time, Image Overlay
Storage	Support FTP Storage
Alarm	Arming/Disarming, Sound Alarm, Light Alarm, Mask Alarm, Support Network Anomaly etc.
Linkage	FTP / Memory Card E-mail, Notify Surveillance Center, Trigger Recording, Trigger Capture
Alarm Event	Disconnection; IP Conflict; No SD Card; Capacity Warning; SD Card Error

Intelligent Analysis	
Basic Detection	Face Detection, Cross Line, Intrusion (Based on Human and Vehicle Detection), Motion Detection, Ultra Motion Detection, Tampering Alarm, Audio Detection, Watermark, IP address Filtering, Access Policy, ARP Protection, RTP/RTSP Authentication, User Authentication, HTTP/HTTP Authentication
Face Detection	Supported
Perimeter Protection	Intrusion, Tripwire (support the classification of Human and Vehicle & Non Motor)
Smart Motion Detection	Supported
AI Search	Work together with NVR
General Parameter	
Case	Metal, Indoor & Outdoor
Protection Level	IP67
Temp. / Humidity	-30°C to +60°C (-22°F to +140°F)/Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Power Consumption	Basic: 2.5 W; Max. 6.2W
Power Supply	DC12V 2A / POE (IEEE802.3af)
Lightning Protection	Power, Network, POE all Lightning Protection, meet GB/T17626.5 and IEC61000-4-5
Dimension / Weight	122(L)*110(H)mm / 0.7KG
Approvals	
Certification	CE / FCC / RoHS
EMC	CE-EMC:2014/30/EU, EN55032:2015+AC: 2016, EN55035:2017
FCC	FCC Part15 subpart B Procedure : ANSI C63.4-2014
RoHS	ROHS: (EU) 2017/2012 IEC62321:2013
ISO	ISO9001