



## IP Scope 2K Camera CIPB4IR28-120



- 4MP CMOS 2688 x 1520 resolution
- Human and Vehicle detection
- Smart IR illumination
- 60 m illumination distance
- 2.8 – 12 mm motorized varifocal lens
- IP67, IK10 12VDCP



Category	Specifications
<b>Key Features</b>	
	High quality imaging with 4 MP resolution
	Motorized varifocal lens for easy installation and monitoring
	Clear imaging against strong backlight thanks to 120 dB WDR technology
	High-efficiency H.265+ compression technology
	Water and dust resistance (IP67) and vandal resistance (IK10)
	Focus on human and vehicle target classification based on deep learning
<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC on), 0 Lux with IR on
Shutter Speed	1/3 to 1/100,000 sec.
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Day & Night	ICR Cut
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 90°, Rotate: 0° to 360°
<b>Lens</b>	
Focal Length & Field of View	Horizontal 95.8° to 29.2°, Vertical 50.6° to 16.4°, Diagonal 114.6° to 33.4°
Aperture	F1.6
Lens Mount	Ø 14
<b>DORI</b>	
DORI	D: 64 m to 200 m, O: 25.4 m to 79.4 m, R: 12.8 m to 40 m, I: 6.4 m to 20 m
<b>Illuminator</b>	
IR Range	Up to 197 ft (60 m)
IR Wavelength	850 nm

<b>Video</b>	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
Video Compression	Main stream: H.264 / H.264+ / H.265 / H.265+; Sub-stream: MJPEG / H.264 / H.265; Third stream: H.264 / H.265
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile / Main Profile / High Profile
H.265 Type	Main Profile
H.264+	Main Stream
H.265+	Main Stream
Bit Rate Control	CBR / VBR
Scalable Video Coding (SVC)	Yes
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
<b>Audio</b>	
Environmental Noise Filtering	Yes
Audio Sampling Rate	8 / 16 / 32 / 44.1 / 48 kHz
Audio Compression	G.711 ulaw / G.711 alaw / G.722.1 / G.726 / MP2L2 / PCM / MP3 / AAC
Audio Bit Rate	64 Kbps (G.711 ulaw / G.711 alaw) / 16 Kbps (G.722.1) / 16 Kbps (G.726) / 16 Kbps - 64 Kbps (AAC) / 32 - 192 Kbps (MP2L2) / 8 - 320 Kbps (MP3)

<b>Network</b>	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS, PPPoE
User / Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP / HTTPS, TLS 1.1 / 1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	MicroSD / SDHC / SDXC cards (256 GB) for local storage, and NAS (NFS, SMB / CIFS), auto network replenishment (ANR)
Web Browser	Plug-in required live view: IE 10, IE 11; Plug-in free live view : Chrome 57.0+, Firefox 52.0+; Local service: Chrome 57.0+, Firefox 52.0+
<b>Image</b>	
Day / Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate, mirror, privacy masks, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
<b>Interface</b>	
Audio	1 input (line in), two-core terminal block, max. input amplitude: 3.3 vpp, input impedance: 4.7 K $\Omega$ , interface type: non-equilibrium; 1 output (line out), two-core terminal block, max. output amplitude: 3.3 vpp, output impedance: 100 $\Omega$ , interface type: non-equilibrium
Alarm	1 input, 1 output (max. 12 VDC, 30 mA)
On-Board Storage	Built-in MicroSD, up to 256 GB
Reset Key	Yes
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port

<b>Event Types</b>	
Basic Events	Motion detection (human and vehicle targets classification), video tampering alarm, exceptions / anomalies
Face Detection	Yes
<b>Deep Learning Function</b>	
Perimeter Protection	Line crossing detection, intrusion detection; Supports human and vehicle targets classification
<b>General</b>	
Linkage Methods	Upload to FTP / memory card / NAS, notify surveillance center, trigger record, trigger capture, Email
Languages (33)	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian
General Function	Anti-flicker, heartbeat, password reset via e-mail, pixel counter
Software Reset	Yes
Storage Conditions	-22° to 140° F (-30° to 60° C); Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-22° to 140° F (-30° to 60° C); Humidity 95% or less (non-condensing)
Power Supply	12 VDC $\pm$ 25%; PoE: 802.3at, Class 4
Power Consumption and Current	12 VDC, 1.08 A, max. 13 W; PoE: (802.3 at, 42.5 V to 57 V), 0.36 A to 0.27 A, max. 15 W
Power Interface	Ø 5.5 mm coaxial power plug
Materials	Aluminum alloy body
Dimensions	12.2 × 3.9 × 3.7 in. (308.5 × 97.9 × 93 mm)
Shipping Dimensions	15.2 × 7.5 × 7.1 in. (385 × 190 × 180 mm)
Weight	Approx. 3.1 lbs (1,390 g)
Shipping Weight	Approx. 4.3 lbs (1,961 g)

<b>Certifications</b>	
EMC	FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
Safety	UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
Environmental	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protections	IP67 (IEC 60529-2013), IK10 (IEC 62262: 2002)
<b>Accessories (Optional)</b>	
Junction Box	RFB801
Vertical Pole Mount	RFB378
Junction Box	RFB801-A
Corner Mount	RFB379