



IP Sentry 4K Camera CIPV8IR28



- 8MP CMOS 3840 x 2160 resolution
- Human and Vehicle detection
- Smart IR illumination
- 30 m illumination distance
- 2.8mm fixed lens
- Built in MIC
- IP67, IK10 12VDCP



Category	Specification
General	
Features	<ul style="list-style-type: none"> - High quality imaging with 8 MP resolution - Clear imaging against strong backlight thanks to 120 dB true WDR technology - High-efficiency H.265+ compression technology - Focus on human and vehicle target classification based on deep learning - Built-in microphone for real-time audio security - Water and dust resistance (IP67) and vandal resistance (IK10)
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC on), B/W: 0 Lux with IR
Shutter Speed	1/3 to 1/100,000 sec.
Slow Shutter	Yes
Wide Dynamic Range	120 dB
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
Lenses	
Lens Type	2.8mm
Focal Length & FOV	2.8 mm: Horizontal 107°, vertical 57°, diagonal 128°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
Detection, Observation, Recognition, Identification (DORI)	D: 88 m, O: 35 m, R: 17 m, I: 9 m

Illuminator	
Supplement Light Type	IR
Smart Supplement Light	Yes
IR Wavelength	850 nm
IR Range	Up to 98 ft (30 m)
Video	
Max. Resolution	3840 × 2160
Main Stream (50 Hz)	20 fps (3840 × 2160) 25 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Main Stream (60 Hz)	20 fps (3840 × 2160) 30 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Sub Stream (50 Hz)	25 fps (640 × 480, 640 × 360)
Sub Stream (60 Hz)	30 fps (640 × 480, 640 × 360)
Third Stream (50 Hz)	10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360)
Third Stream (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 16 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)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream

Audio	
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 to 64 Kbps (AAC)/ 32 to 192 Kbps (MP2L2)/ 8 to 320 Kbps (MP3)
Audio Sampling Rate	8 / 16 / 32 / 44.1 / 48 kHz
Environmental Noise Filtering	Yes
Network	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK
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	NAS (NFS, SMB / CIFS), auto network replenishment (ANR)
Web Browsers	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+
Imaging	
Image Parameters Switch	Yes
Image Settings	Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Day / Night Switching	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
SNR	≥ 52 dB

Interface	
Ethernet Interface	1 RJ45 10/100 Mbps self-adaptive Ethernet port
On-board Storage	Built-in memory card slot supports MicroSD / SDHC / SDXC cards up to 256 GB
Built-in Microphone	Yes
Hardware Reset	Yes
Event Types	
Basic Events	Motion detection (human and vehicle targets classification), video tampering alarm, exceptions / anomalies
Face Detection	Yes
Deep Learning Functions	Perimeter Protections: Line crossing detection, intrusion detection, supports human and vehicle targets classification

General	
Linkage Methods	Upload to FTP / memory card / NAS, notify surveillance center, trigger recording, trigger capture, send email
Camera Material	Aluminum alloy body Bubble: plastic
Camera Dimensions	Ø 4.8 × 3.7 in. (Ø 121.4 × 92.2 mm)
Package Dimensions	5.9 × 5.9 × 5.6 in. (150 × 150 × 141 mm)
Camera Weight	Approx. 1.2 lbs (550 g)
Package Weight	Approx. 1.8 lbs (800 g)
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)
Web Client Languages	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 Functions	Anti-flicker, heartbeat, password reset via email, pixel counter
Software Reset	Yes
Power Consumption and Current	12 VDC, 0.5 A, max. 6 W PoE (802.3 af, 36 V to 57 V), 0.25 A to 0.15 A, max. 7.5 W
Power Supply	12 VDC ± 25%, reverse polarity protection PoE: 802.3af, Class 3
Power Interface	Ø 5.5 mm coaxial power plug
Certifications	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	IP67 (IEC 60529-2013), IK10 (IEC 62262: 2002)
Protections	IP67 (IEC 60529-2013), IK10 (IEC 62262: 2002)

Accessories	
Corner Mount	RFB379
Pole Mount	RFB378
Junction Box	RFB347H
Wall Mount	RFB742-120