

PNC328G2-MB 8 MP AcuSense Fixed Bullet Network Camera

AcuSense















Empowered by deep learning algorithms, AcuSense technology brings human and vehicle targets classification alarms to front- and back-end devices. The system focuses on human and vehicle targets, vastly improving alarm efficiency and effectiveness.

- High quality imaging with 8 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong backlight due to 120 dB WDR technology
- Focusing on human and vehicle classification based on deep learning
- Water and dust resistant (IP67)

Specification

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 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Lens	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
	2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 128°
Focal Length & FOV	4 mm, horizontal FOV 87°, vertical FOV 46°, diagonal FOV 105°
	6 mm, horizontal FOV 54°, vertical FOV 29°, diagonal FOV 63°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
DORI	
	2.8 mm: D: 88 m, O: 35 m, R: 17 m, I: 9 m
DORI	4 mm: D: 108 m, O: 43 m, R: 22 m, I: 11 m
	6 mm: D: 177 m, O: 70 m, R: 35 m, I: 18 m
Illuminator	
Supplement Light Type	IR
Smart Supplement Light	Yes
IR IR Wavelength	850 nm
IR Range	Up to 40 m
Video	
Max. Resolution	3840 × 2160
	50 Hz: 20 fps (3840 × 2160)
Marin Change	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)
Cub Ctroom	50 Hz: 25 fps (640 × 480, 640 × 360)
Sub-Stream	60 Hz: 30 fps (640 × 480, 640 × 360)
	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)
	*Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.264+/H.265+
	Sub-stream: H.265/H.264/MJPEG
	Third stream: H.265/H.264
	*Third stream is supported under certain settings.
Video Bit Rate	

H.264+ Main stream supports 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 Compression - U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC Audio Compression - U: G.711ulaw/G.711alaw/G.722.1/16 kbps (G.722.1)/16 kbps (G.726)/16 kbps to 64 kbps (G.7121)/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 - U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/41 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/16 kHz/41 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/4 kHz/41 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/41 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/41 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/41 kHz/48 kHz Environment Noise Filtering - U: 9 kHz/41 kHz/48	H.265 Type	Main Profile
Bit Rate Control Scalable Video Coding (SVC) Region of Interest (ROI) Audio Audio Audio Compression - U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC - U: G.4 kbps (G.711ulaw/G.711alaw)/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 - U: S. klx1/16 klx1/32 klx1/44.1 klz1/48 klz Environment Noise Filtering - U: Ves Network TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPPP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPP0E, 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 Password protection, complicated password, HTTPS encyption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS.1.1/1.2, WSSE and digest authentication for PMTP/HTTPS, TLS.1.1/1.2, WSSE and d	H.264+	Main stream supports
Scalable Video Coding (SVC) Region of Interest (ROI) 1 fixed region for main stream and sub-stream Audio Audio Compression -U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC -U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64 Kbps (AACJ/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3) Audio Sampling Rate -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering -U: 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, PPD6E, SMMP 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 Password protection, complicated password, HTTPS encryption, IP address filter, Security 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) Client Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Digy in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: C	H.265+	Main stream supports
Region of Interest (ROI) 1 fixed region for main stream and sub-stream Audio Naudio Audio Compression -U. G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC -U. 64 Kbps (G.711ulaw/G.711alaw/J.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 -U. 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering -U. Yes Network 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 Password protection, complicated password, HTTPS encryption, IP address filter, Security Security addit log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface Network Storage NSA (NFS, SMB/CIFS), auto network replenishment (ANR) Client Guarding Vision Plug-in required live view: IE 10, IE 11 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+ Local service: Chrome 57.0+, Firefox 52.0+ Image Parameters Switch Yes Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR 252 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Perimeter Protection Ves Perimeter Protection Line crossing detection, intrusion detection	Bit Rate Control	CBR/VBR
Audio Compression	Scalable Video Coding (SVC)	H.264 and H.265 encoding
Audio Compression -U: G.711ulaw/G.711alaw/G.721.1/G.726/MP2L2/PCM/MP3/AAC -U: 64 Kbps (G.7121ulaw/G.711alaw)/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 -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering -U: Yes Network Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPAP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPDE, SMMP 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 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 Network Storage Network Storage Network Storage Most (AGC) (AGC) Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Image Parameters Switch Yes 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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR \$52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Perimeter Protection Perimeter Protection Line crossing detection, intrusion detection	Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio Bit Rate -U: 64 Kbps (G.711ulaw/G.711alaw)/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 -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering -U: Yes Network 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, SMMP 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 Password protection, complicated password, HTTPS encryption, IP address filter, Security 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) Client Guarding Vision 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+ Lo	Audio	
Audio Bit Rate Kbps (AAC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3) Audio Sampling Rate -U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz Environment Noise Filtering Network TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPDE, SMMP Simultaneous Live View Up to 6 channels API Open Network Video Interface (Profile S, Profile G), ISAPI, SDK API User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security 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) Client Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ 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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 30 DNR SNR 2 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Esset Key Yes Fuent Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Audio Compression	-U: G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Kbps (AACJ/32 to 192 kbps (MP2L2J/8 to 320 kbps (MP3) Audio Sampling Rate	Audio Bit Rate	-U: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/16 Kbps to 64
Network Notice Filtering -U: Yes		Kbps (AAC)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)
Network 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, SMMP 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 Password protection, complicated password, HTTPS encryption, IP address filter, Security Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Pensions SC 1.1/1.2, WSSE	Audio Sampling Rate	-U: 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
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 API Open Network Video Interface (Profile S, Profile G), ISAPI, SDK User/Host Up to 32 users. 3 user levels: administrator, operator and user 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) Client Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Image Image Parameters Switch Yes Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR 2 52 dB Interface Ethernet Interface 1 R145 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function	Environment Noise Filtering	-U: Yes
IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP	Network	
API Open Network Video Interface (Profile S, Profile G), ISAPI, SDK User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security 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) Client Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Loc	Protocols	
User/Host Up to 32 users. 3 user levels: administrator, operator and user Password protection, complicated password, HTTPS encryption, IP address filter, Security 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) Client Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefo	Simultaneous Live View	Up to 6 channels
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) Client Guarding Vision 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+ Local service: Chrome 57.0+, Firefox 52.0+ Image Image Parameters Switch Yes Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR \$ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK
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) Client Guarding Vision Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+ Image Parameters Switch Yes Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client Guarding Vision Web Browser Plug-in required live view: IE 10, IE 11 Web Browser Plug-in free live view : Chrome 57.0+, Firefox 52.0+		Password protection, complicated password, HTTPS encryption, IP address filter,
Network Storage NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Client Guarding Vision 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+ Image Image Parameters Switch Yes Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Perimeter Protection Line crossing detection, intrusion detection	Security	Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE
Client Guarding Vision 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+ Image 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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection		and digest authentication for Open Network Video Interface
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+ Image Image Parameters Switch Yes Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Network Storage	NAS (NFS, SMB/CIFS), auto network replenishment (ANR)
Web Browser Plug-in free live view : Chrome 57.0+, Firefox 52.0+ Image 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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Client	Guarding Vision
Local service: Chrome 57.0+, Firefox 52.0+ Image 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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection		Plug-in required live view: IE 10, IE 11
Image 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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Web Browser	Plug-in free live view : Chrome 57.0+, Firefox 52.0+
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 Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection		Local service: Chrome 57.0+, Firefox 52.0+
Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Image	
Image Settings balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Image Parameters Switch	Yes
balance adjustable by client software or web browser Day/Night Switch Day, Night, Auto, Schedule Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Lucian Cattings	Rotate, mirror, privacy mask, saturation, brightness, contrast, sharpness, gain, white
Image Enhancement BLC, HLC, 3D DNR SNR ≥ 52 dB Interface	image Settings	balance adjustable by client software or web browser
Interface Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Fvent Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Line crossing detection, intrusion detection	Day/Night Switch	Day, Night, Auto, Schedule
Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Image Enhancement	BLC, HLC, 3D DNR
Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	SNR	≥ 52 dB
On-Board Storage Built-in memory card slot, support microSD card, up to 256 GB Built-in Microphone -U: Yes Reset Key Yes Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Interface	
Built-in Microphone -U: Yes Reset Key Yes Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Reset Key Fvent Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Perimeter Protection Yes Line crossing detection, intrusion detection	On-Board Storage	Built-in memory card slot, support microSD card, up to 256 GB
Event Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Built-in Microphone	-U: Yes
Basic Event Motion detection (human and vehicle targets classification), video tampering alarm, exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Reset Key	Yes
Basic Event exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Event	
exception Face Detection Yes Deep Learning Function Line crossing detection, intrusion detection	Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm,
Deep Learning Function Line crossing detection, intrusion detection		exception
Line crossing detection, intrusion detection Perimeter Protection	Face Detection	Yes
Perimeter Protection	Deep Learning Function	
Supports human and vehicle targets classification	-	Line crossing detection, intrusion detection
		Supports human and vehicle targets classification

General	
Links as Adath and	Upload to FTP/memory card/NAS, notify surveillance center, trigger recording, trigger
Linkage Method	capture, send email
Material	Aluminum alloy body
	IR cover: plastic
Dimension	Ø70 mm × 161.7 mm (Ø2.8" × 6.4")
Package Dimension	216 mm × 121 mm × 118 mm (8.6" × 4.8" × 4.7")
Weight	Approx. 495 g (1.1 lb.)
With Package Weight	Approx. 759 g (1.7 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
	33 languages
	English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak
Language	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 email, pixel counter
Firmware Version	V5.5.113
Software Reset	Yes
Power Consumption and Current	12 VDC, 0.5 A, max. 6 W
Power Consumption and Current	PoE (802.3af, 36 V to 57 V), 0.2 A to 0.13 A, max. 7.2 W
Power Supply	12 VDC ± 25%, reverse polarity protection
	PoE: 802.3af, Class 3
Power Interface	Ø5.5 mm coaxial power plug
Approval	
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)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP67 (IEC 60529-2013)

Available Model

PNC328D2-MB

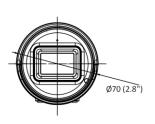
Typical Application

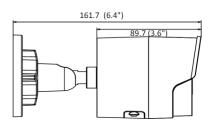
PerfectView products are classified into three levels according to their anti-corrosion performance. Refer to the following description to choose for your using environment.

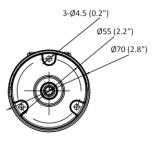
This model has NO SPECIFIC PROTECTION.

Level	Description
Top-level protection	PerfectView products at this level are equipped for use in areas where professional
	anti-corrosionprotection is a must. Typical application scenarios include coastlines, docks,
	chemical plants, andmore.
Moderate protection	PerfectView products at this level are equipped for use in areas with moderate anti-corrosion
	demands. Typical application scenarios include coastal areas about 2 kilometers (1.24 miles) away
	from coastlines, as well as areas affected by acid rain.
No specific protection	PerfectView products at this level are equipped for use in areas where no specific
	anti-corrosionprotection is needed.

Dimension







Unit: mm (inch)

- Accessory
- Optional

