PERFECT VIEW
THE PERFECT WAY TO STAY SECURE

PNCA1C-FEA
12 MP IR Network Fisheye Camera

HD | **SD** | **IR** | **FISHEYE** | **3D DNR**

DeepinView series | IMMERVISION enables®

PNCA1C-FEA is a fisheye network camera capable of providing a 360-degree panoramic image of its surveillancescene.
The progressive scan CMOS sensor provides high-resolution images of up to 4000 × 3000.
Up to 18 live view display modes, designed for 3 mount types, meet various user preference.
Three independently controlled IR lights offer a range of 15 m and provide good vision in low or even zero-light environment.

- 1/1.7" Progressive Scan CMOS
- Max. 4000 × 3000 @20fps
- Up to 18 live view display modes
- Digital WDR
- Up to 15m IR range
- Built-in microphone and speaker
- Smart features
  6 behavior analyses, and 3 exception detections
  Heat map with deep learning algorithm
  Intersection analysis by deep learning
- Panomorph lens RPL: B9VVT

▪ **DORI**

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Distance(1.29 mm)	27.9 m	11.1 m	5.6 m	2.8 m

Specifications

Camera	
Image Sensor	1/1.7'' Progressive Scan CMOS
Min. Illumination	Color: 0.05 Lux @ (F2.2, AGC ON), B/W: 0.01 Lux @ (F2.2, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	Digital WDR

Lens	
Focal Length	1.29 mm
Aperture	F2.2
FOV	Horizontal FOV: 180°, vertical FOV: 180°
Lens Mount	M12

IR	
IR Range	Up to 15 m IR range, 3 LEDs. Each LED is independently controlled.
Wavelength	850 nm

Compression Standard	
Video Compression	Main stream: H.265+/H.265/H.264+/H.264 Sub stream: H.265/H.264/MJPEG
H.264 Type	Baseline Profile/ Main Profile /High Profile
H.264+	Main stream supports
H.265 Type	Main Profile
H.265+	Main stream supports
Video Bit Rate	32 Kbps to 16 Mbps
SVC	H.265 and H.264 support

Smart Feature-set	
Behavior Analysis	Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection
Exception Detection	Audio exception detection
Intersection Analysis	Detects and analyze flow in an intersection-like scene, and generate reports Support one intersection of up to 10 ways
Heat Map	A graphic description of visits (calculated by people number or by dwell time) in a configured area. Two heap map report types are available, space heat map and time heat map line chart
People Counting	Counts people entering, exiting and passing by separately Supports real-time uploading and uploading by statistic cycle Sends email reports on daily, weekly, monthly or annually basis Supports target filtering by height
Region of Interest	4 fixed regions for main stream

Image	
Max. Resolution	4000 × 3000
Main Stream Max. Frame Rate	50Hz: 20fps (4000 × 3000), 25fps (3000 × 3000, 2560 × 2560) 60Hz: 20fps (4000 × 3000), 30fps (3000 × 3000, 2560 × 2560)
Sub Stream Max. Frame Rate	50Hz: 20fps (720 × 720, 640 × 480) 60Hz: 20fps (720 × 720, 640 × 480)

Image Enhancement	BLC, HLC, defog, 3D DNR
Image Setting	Saturation, brightness, contrast, sharpness, AGC and white balance are adjustable by client software or web browser
Day/Night Switch	Day/Night/Auto/Schedule/Triggered by Alarm In
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24bit bmp format

Live View Display

Mount Type	Support table, wall, and ceiling mounting
Decoding Mode	Support hardware decoding and software decoding
Display Mode	18 display modes in total Software decoding: Ceiling mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ, hemisphere, AR hemisphere, cylinder Wall mount: fisheye view, panorama view, panorama + 3PTZ, panorama + 8PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ Table mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ, cylinder Hardware decoding: Ceiling mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion Wall mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion Table mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ, 4PTZ fusion

Audio (-S)

Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz
Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM
Audio Bit Rate	64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2)

Network

Network Storage	Support microSD/SDHC/SDXC card (256 G), local storage and NAS (NFS,SMB/CIFS), ANR
Alarm Trigger	Motion detection, video tampering alarm, network disconnected, IP address conflicted, illegal login, HDD full, HDD error
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour
Security Measure	Password protection, HTTPS encryption, IEEE 802.1x port-based network access control, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF
General Function	One-key reset, anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter
Firmware Version	5.5.73
API	ONVIF (PROFILE S, PROFILE G), ISAPI
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels, administrator, operator and user
Client	Guarding Vision
Web Browser	IE8+, Chrome31.0-44, Firefox 30.0-51, Safari8.0+

Interface

Communication Interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet port
Audio	2 built-in microphones, 1 built-in speaker, mono sound 1 Audio input (line in, 3.5 mm), 1 audio output (line out, 3.5 mm)
Alarm (-S)	1-ch alarm input, max. 12 V; 1-ch alarm output, max 24 VDC, 1 A
On-board storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Reset Button	Yes

General

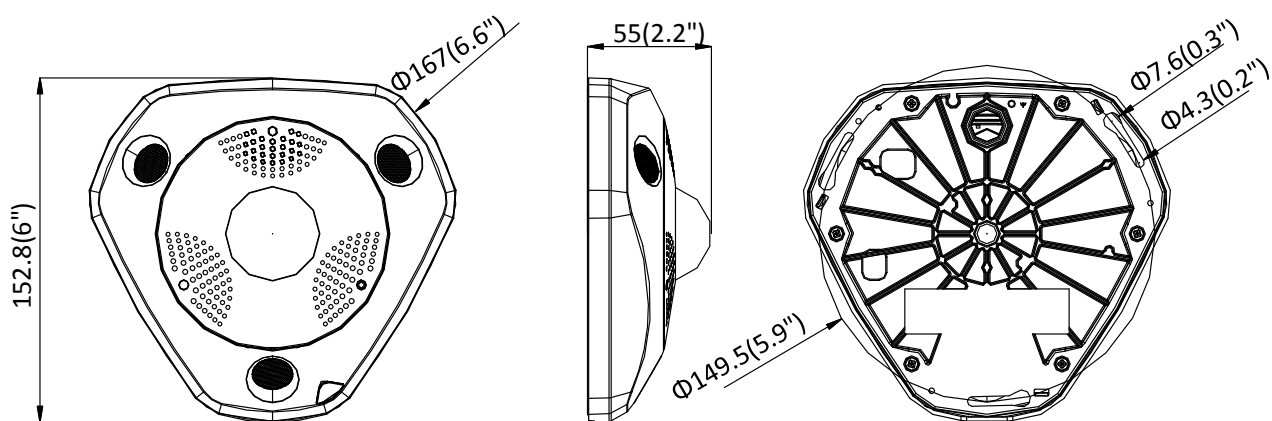| Operating Conditions	-40 °C to +60 °C (-40 °F to +140 °F), Humidity 95% or less (non-condensing)
Power Supply	12 VDC±20%, PoE (802.3at, class 4), two-core terminal block
Power Consumption	12 VDC, 1 A, max. 12.5 W s PoE (802.3at, 42.5 to 57 V), 0.4 A to 0.3 A, max. 15 W
Protection Level (-V)	IP67, IK10
Heater	Yes
Material	Metal
Dimensions	167 × 152.8 × 55 mm (6. 6" × 6" × 2.2")
Weight	Approx. 1400 g (3.09 lbs)

Available Model

PNCA1C-FEA

▪ 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-corrosion protection is a must. Typical application scenarios include coastlines, docks,chemical plants, and more.
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 2km(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-corrosion protection is needed.

Dimensions

Φ167(6.6")

55(2.2")

Φ7.6(0.3")

Φ4.3(0.2")

152.8(6")

Φ149.5(5.9")

Unit: mm(inch)

Accessories

P-280ZJ-DM25

Junction Box

P-281ZJ-DM25

Inclined Ceiling Mount

P-273ZJ-DM25

Wall Mount

P-271ZJ-DM25

Pendant Mount

P-283ZJ

Wall Mount (3-axis Adjustment)