

IPND-F80F-IRW1

8MP IR Panoramic Fisheye Network Camera



Camera Specifications

Image Sensor	1/2.3" Progressive CMOS in 4056x3040
Maximum Resolution	2816x2816
Lens Type	Fixed-focal
Focal Length	f = 1.18mm
Aperture	F2.18
Iris Type	Fixed iris
Field of View	180° (Horizontal) 180° (Vertical) 180° (Diagonal)
Shutter Speed	1/5 sec. to 1/32,000 sec.
WDR	WDR Pro
Day / Night	Yes
Removable IR-Cut Filter	Yes

Camera Specifications (cont'd)

Illuminators	4x LEDs - Up to 20 meters with Smart IR
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Minimum Illumination	0.1 lux @ F2.18 (Color) <0.005 lux @ F2.18 (B/W) 0 lux with IR illumination on
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Storage	MicroSD up to 1TB capacity NAS (network attached storage)
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Remote Tools	Pixel calculator
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Video Specifications

Compression	H265, H264, MJPEG
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Maximum Frame Rate	30fps @ 2816x2816 (WDR off) 20fps @ 2816x2816 (WDR on)
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Number of Streams	3 video streams (Up to 8 configurable profiles)
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Signal to Noise Ratio	56.9 dB
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Dynamic Range	120 dB
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Video Streaming	Adjustable resolution, quality and constrained bit rate control, Smart Stream III
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Image Settings	General settings video title and time stamp overlay, video orientation (flip, mirror), day/night settings, anti-overexposure Image settings white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog, 3DNR Exposure BLC, exposure control, AE speed adjustment, WDR Privacy mask Pixel calculator Scheduled profile settings
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Video Specifications (cont'd)

Display Modes

Client Dewarping

Ceiling mounted: 10 Fisheye, 1P Panoramic, 2P Two Panoramics, 1R One Region, 4R Four Regions, 103R One Fisheye Three Regions, 108R One Fisheye Eight Regions

Wall mounted: 10 Fisheye, 1P Panoramic, 1R One Region, 4R Four Regions, 1P2R One Panoramic, Two Regions, 1P3R One Panoramic Three Regions, 103R, One Fisheye Three Regions

Local Dewarping

Ceiling mounted: 10 Fisheye, 1P Panoramic, 2P Two Panoramics, 1R One Region, 4R Four Regions

Wall mounted: 10 Fisheye, 1P Panoramic, 1R One Region, 4R Four Regions

Audio Specifications

Audio Capability

Two-Way Audio (full duplex)

Audio Compression

G.711, G.726, MPEG-2 AAC-LC

Audio Interface

Built-in microphone (effective range 5 meters)

Network Specifications

Users

Live streaming for up to 10 users / devices

Security

Access list, Account block , Audit log, Configurable password strength protection, CSRF protection, Digest authentication, HTTPS , IEEE 802.1x, Secure boot, Session timeout, Signed firmware, User access log, User account management

Protocols

802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2, UDP, UPnP

Interface

10Base-T/100Base-TX Ethernet (RJ-45)

Onvif

Profile G, S, T, M supported

AI Analytic Specifications

Processing Capability

Custom SoC with built-in hardware learning accelerator

Vision Object Analytics

Object DetectionPeople, Vehicle (4-wheeled, 2-wheeled), Human / Vehicle
Best shot, Path Extraction**Attribute Extraction**

People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color)

Human face Best shot, Re-Search Extraction

IC Secure Analytics

Deep Learning VCA (Advanced Smart Tracking)

Smart VCA - Package 1

Smart VCA (Intrusion detection, Loitering detection, Line crossing detection, face detection)

Smart VCA - Package 2

Unattended object detection, Missing object detection

Alarm and Events

Event Triggers

Audio detection, camera tampering detection, cybersecurity events (brute force attack event, cyberattack event, quarantine event), digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot

Event Actions

Event notification via audio clip*, digital output, email, HTTP, FTP, NAS server, SD card, File upload via email, HTTP, FTP, NAS server, SD card, Camera link

General Information	
Connectors	RJ45 cable connector
Indicators	System power and status indicator
Power Interface	IEEE 802.3at PoE Class 4
Power Consumption	Max.22.8W/10.75 W
Dimensions	150 x 68.4 mm
Weight	701 g
Certifications	EMC CE (EN 55032 Class A, EN 55024), FCC (FCC Part 15 Subpart B Class A) Safety UL (UL 62368-1), CB (IEC/EN 62368-1, IEC/EN 60950-22) Environment IK10, IP66, NEMA 4X
Operating Temperatures	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F) (IR off) -40°C ~ 50°C (-40°F ~ 122°F) (IR on)
Humidity	90% RH (non-condensing)

System Compatibility	
Operating Systems	Microsoft Windows 11 / 10 / 8 / 7 MacOS 10.12 - 26 (Chrome only)
Web Browsers	Chromium 58.0 or above (Chrome, Edge, Brave) Internet Explorer 10 / 11
3rd Party Video Players	VLC: 1.1.11 or higher
Accessories	
In the box	Quick installation guide, alignment sticker, screw pack, desiccant bag
DORI (EN 62676-4 Standard)	
Detection (25PPM / 8PPF)	30.3 m (99.4 ft)
Observation (63PPM / 19PPF)	12.0 m (39.4 ft)
Recognition (125PPM/ 38PPF)	6.1 m (20.0 ft)
Identification (250PPM / 76PPF)	3.0 m (9.8 ft)