

IPND-E50F-DIW1

5MP Dual Light AI Turret Camera



Camera Specifications

Image Sensor	1/2.8" Progressive CMOS
Maximum Resolution	2560x1920 (5MP)
Lens Type	Fixed-focal
Focal Length	f = 2.8 mm
Aperture	F2.0
Iris Type	Fixed iris
Field of View	103.4° (Horizontal) 75.3° (Vertical) 135.2° (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	Built-in Warm Light & Infrared (Hybrid) illuminators IR effective up to 40 meters Warm light effective up to 30 meters
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Minimum Illumination	0.055 lux @ F2.0 (Color) 0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on
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Pan Range	350°
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Tilt Range	70°
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Rotation Range	350°
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Storage	MicroSD up to 1TB capacity NAS (network attached storage)
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Remote Control	pixel calculator
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Video Specifications

Compression	H265, H264, MJPEG
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Maximum Frame Rate	30 fps @ 2560x1920 (5MP)
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Number of Streams	3 video streams (Up to 8 configurable profiles)
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Signal to Noise Ratio	55 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, rotation), day/night settings
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	Illuminators illuminators, anti-overexposure
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Video Specifications (cont'd)

Image Settings

Image settings

white balance, image adjustment (brightness, contrast, saturation, sharpness, gamma curve), defog,
3DNR, EIS (built-in gyro sensor), scene mode (auto, deblur)

Exposure

BLC, HLC, exposure control (exposure level, iris adjustment, exposure time, gain control, iris mode), AE speed adjustment, WDR

Focus

zoom, focus

Privacy mask

Pixel calculator
Scheduled profile settings

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)
Built-in speaker
External microphone Input
External line output

Network Specifications

Users

Live streaming for up to 10 users / devices

Security

Access list, CSRF protection, digest authentication, HTTPS , IEEE 802.1x, Password protection, secure boot, signed firmware, user access log, user account management, Trusted Platform Module (TPM)

Protocols

802.1X, ARP, Bonjour, CIFS/SMB, DDNS, DHCP, DNS, FTP/SFTP, HTTP, HTTPS, ICMP, IGMPv3, IPv4, IPv6, , NTP, PPPoE, QoS (CoS/DSCP), RTSP/RTP/RTCP, SMTP, SNMP, SSL, TCP/IP, TLS 1.2/1.3, UDP, UPnP

Network Specifications (cont'd)

Interface	10Base-T/100Base-TX Ethernet (RJ-45)
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Onvif	Profile G, S, T, M supported
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AI Analytic Specifications

Processing Capability	Custom SoC with built-in hardware learning accelerator
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Object Detection

People, Vehicle (4-wheeled, 2-wheeled), Human / Vehicle
Best shot, Path Extraction

Vision Object Analytics	Attribute Extraction People (gender, clothing color, bag, hat), Vehicle (bike, bus, car, motorcycle, truck, color) Human face Best shot, Re-Search Extraction
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Attribute 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
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Smart VCA - Package 1**Smart VCA - Package 2**

RealSight Engine	Smart IR III, Deblur, WDR, White Balance, Exposure Control
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Alarm and Events

Event Triggers	Audio detection, camera tampering detection, digital input, manual trigger, motion detection, periodical trigger, recording notification, SD card life expectancy, shock detection, system boot
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Event Actions	Event notification via audio clip, camera link, digital output, email, HTTP, FTP/SFTP, NAS server, SD card
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	File upload via email, HTTP, FTP/SFTP, NAS server, SD card
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General Information	
Connectors	RJ-45 cable connector for 10/100 Mbps Network/PoE connection Audio line input Audio line output Digital input: 1 Digital output *1 (DO+: 12V, 50mA; DO-: 30V, Open Drain, 1A)
Indicators	System power and status indicator
Power Interface	IEEE 802.3af PoE Class 3
Power Consumption	Max. 12.4W (IR on) / 9.6W (off)
Dimensions	137.9 x 94.99 mm
Weight	710 g
Certifications	EMC CE (EN55032, EN55035 Class A), UKCA (BS EN 55032/BS EN 55035 Class A), FCC (FCC Part 15 Subpart B Class A) Safety UL (UL62368-1), CB (IEC/EN 62368-1, IEC/EN 62368-1, IEC/EN 62471) Environment IK10, IP66
Operating Temperatures	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) (IR off) -30°C ~ 45°C (-22°F ~ 113°F) (IR on)
Humidity	98% 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, cable gland
DORI (EN 62676-4 Standard)	
Detection (25PPM / 8PPF)	60.4 m (198.1 ft)
Observation (63PPM / 19PPF)	24.1 m (79.2 ft)
Recognition (125PPM/ 38PPF)	12 m (39.5 ft)
Identification (250PPM / 76PPF)	6.0 m (19.6 ft)