IPND-D80V-IRW1

8MP 2x Zoom IR Dome Network Camera



Camera Specifications	
Image Sensor	1/1.8" Progressive CMOS
Maximum Resolution	3840x2160 (8MP)
Lens Type	Vari-focal Auto Focus
Focal Length	f = 4.3 ~ 9.8mm
Aperture	F1.6 ~ F2.6
Iris Type	P-iris
Field of View	110.4° ~ 45.1° (Horizontal) 57.9° ~ 25.4° (Vertical) 133.9° ~ 51.8°(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 40 meters with Smart IR
Minimum Illumination	0.02 lux @ F1.6 (Color) <0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on
Pan Range	350°
Tilt Range	80°
Rotation Range	350°
Storage	MicroSD up to 1TB capacity NAS (network attached storage)
Remote Control	Remote focus, remote zoom, pixel calculator
Video Specifications	
Compression	H265, H264, MJPEG
Maximum Frame Rate	30 fps @ 3840x2160 (8MP)
Number of Streams	3 video streams (Up to 8 configurable profiles)
Signal to Noise Ratio	54 dB
Dynamic Range	120 dB
Video Streaming	Adjustable resolution, quality and constrained bit rate control, Smart Stream III
Image Settings	**General settings** video title and time stamp overlay, video orientation (flip, mirror, rotation), day/night settings **Illuminators** illuminators, anti-overexposure

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)* * Requires AO-015 cable
Audio Compression	G.711, G.726, MPEG-2 AAC-LC
Audio Interface	Built-in microphone (effective range 5 meters) External microphone Input* - External line output* * Requires AO-015 cable
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)
Onvif	Profile G, S, T, M supported
AI Analytic Specifications	
Processing Capability	Custom SoC with built-in hardware learning accelerator
Vision Object Analytics	**Object Detection** People, 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
RealSight Engine	Smart IR III, Deblur, WDR, White Balance, Exposure Control
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
Event Actions	Event notification via audio clip, camera link, digital output*, email, HTTP, FTP/SFTP, NAS server, SD card File upload via email, HTTP, FTP/SFTP, NAS server, SD card *Requires AO-015 cable

General Information	
Connectors	RJ-45 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)* * Requires AO-015 cable
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	134 x 116 mm
Weight	0.99 kg
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: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°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)	Wide: 88.1 m (289.2 ft) Tele: 197.6 m (648.2 ft)
Observation (63PPM / 19PPF)	Wide: 35.0 m (114.9 ft) Tele: 77.9 m (255.7 ft)
Recognition (125PPM/ 38PPF)	Wide: 17.5 m (57.4 ft) Tele: 39.0 m (127.8 ft)
Identification (250PPM / 76PPF)	Wide: 8.7 m (28.6 ft) Tele: 19.5 m (63.9 ft)