

IPFX-P4004-W1

4MP 4x PTZ Network Camera



- 1/2.8" 4 Megapixel CMOS
- Max. 25/30fps@4MP
- H.265 & H.264 triple-stream encoding
- IVS, Intelligent Motion Detect, Face Detection
- 2.8 mm–12 mm, 4x optical zoom
- DWDR, Day/Night(ICR), Ultra DNR
- 256GB Micro SD memory, IP66, IK10, PoE

System Overview

IC Realttime's IPFX-P4004-W1 features a 4x optical zoom and accurate pan/tilt/zoom performance packed in a small dome form factor. This compact PTZ delivers 4MP resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting minimal footprint demands of video surveillance applications.

Furthermore, this TAA Korean-built PTZ is equipped with a suite of Advanced features with Face Detect, Perimeter Protection and Intelligent Motion Detect as well as IVS with Tripwire, Intrusion, Abandoned/ Missing support. Other features include 256GB SD Card support, True 120dB WDR for applications with direct sunlight or glare as well as IP66 and IK10 protection and PoE support.

Functions

iMD (Intelligent Motion Detect)

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

Protection (IP66, IK10)

IP66 is supported by the camera, which makes it suitable for both indoor and outdoor environments. IK10 compliance enables the camera to sustain the equivalent of 5kg (11.02lbs) force.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression

Intelligent Video Analysis (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Perimeter Protection

IC Realttime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced AI analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

Technical Specification

Camera

Image Sensor	1/2.8" CMOS
Effective Pixels	2560 (H) × 1440 (V), 4 Megapixels
RAM/ROM	512MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

Lens

Lens Type	2.8 mm–12 mm			
Max. Aperture	F1.6–F3.0			
Angle of View	H: 90.3°–29.4°; V: 48.5°–16.6°			
Optical Zoom	4x			
Focus Control	Auto/Manual			
Close Focus Distance	4.92 ft (1.5 m)			
DORI Distance	Detect	Observe	Recognize	Identify
	787 ft	311 ft	157 ft	78 ft

PTZ

Pan/Tilt Range	Pan: 0°–355°, Tilt: 0°–90°
Manual Control Speed	Pan: 0.1° ~100° /s; Tilt: 0.1° ~60° /s
Preset Speed	Pan: 100° /s; Tilt: 60° /s
Presets	300
PTZ Mode	5 Pattern, 8 Tour, Auto Pan ,Auto Scan
Speed Setup	Human-oriented focal Length/ speed adaptation
Power up Action	Auto restore to previous PTZ and lens status after power failure
Idle Motion	Activate Preset/ Scan/ Tour if there is no command in the specified period
Protocol	SD Pelco-P/D(Auto recognition)

Video

Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG(Sub Stream); Smart H.264+
Streaming Capability	3 Streams
Resolution	4M (2560 × 1440); 3M (2304 × 1296@25fps); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1(704 × 576); CIF(352 × 288); VGA(640 × 480)
Frame Rate	Main stream: 4M/3M/1080P/1.3M/720P (1~25/30fps)
	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream 2: 720p@(1–25/30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 2816Kbps – 13056Kbps H.265: 1024Kbps – 7936Kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / DWDR
White Balance	Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp

Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Supported
Region of Interest	Supported
Electronic Image Stabilization	Supported
Defog	Electronic defog
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas

Audio

Compression	N/A
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Network

Ethernet	RJ-45 (10/100 Base-T)
Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; ICMP; SNMP; IGMP; ARP; RTCP; RTP; PPPoE; RTMP; Bonjour; SAMBA; NFS
Interoperability	ONVIF(Profile S&G&T); P2P; CGI; SDK
Streaming Method	Unicast / Multicast
Max. User Access	20 (total bandwidth: 64 M)
Edge Storage	FTP; Micro SD card (Max 512 GB); NAS
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android

Certifications

Certifications	FCC: Part 15 subpart B,
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Interface

Video Interface	N/A
Audio Interface	N/A
Alarm I/O	N/A

Electrical

Power Supply	2 VDC, 1 A ± 10%, POE (802.3af)
Power Consumption	Basic: 2.3 W/ Max.: 6.1 W

Environmental

Operating Conditions	-22°F ~ +140°F (-30°C ~ 60°C) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	4.8"x 3.5" (122mm x 89mm)
Net Weight	1.10lb (0.5kg)
Gross Weight	1.54lb (0.7kg)

AI Functions

IVS

Basic IVS	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering
Advanced IVS	Parking detection; people gathering;
Auto Tracking	N/A

Perimeter Protection

Capabilities	Tripwire; Intrusion (Supports target filtering of vehicle and human objects)
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Intelligent Motion Detect

Capabilities	Advanced secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition changes.
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Face Detection

Capabilities	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting
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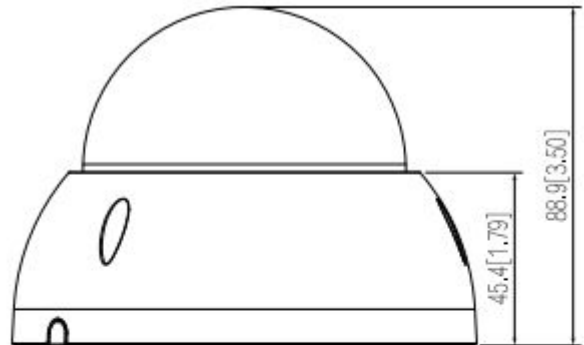
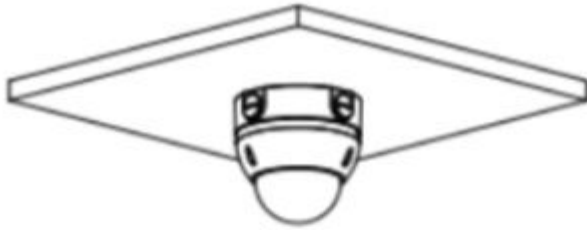
AI Search

Capabilities	Works together with AI enabled NVRs to perform refined intelligent search, event extraction and merging to event videos
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Accessories

Dimensions (mm/in)

MNT-JUNCTION BOX 7



MNT-IPMINIDOME-WALL

