ICFX-P4045X-IRW1

4MP 45x Optical Zoom PTZ Network Camera



- 1/2.8" 4 Megapixel STARVIS™ CMOS
- Powerful 45x optical zoom
- H.265 & H.264 triple-stream encoding
- 4MP (2560 × 1440)@30 fps
- 3.95 mm to 177.75 mm varifocal lens, WDR, 3D NR, HLC, BLC
- Auto Tracking
- Perimeter Protection, Intelligent Motion Detection
- Built-in IR LED up to 492ft
- 512GB Micro SD Support, IK/10IP67, DC 24V or PoE+

Technical Specification

Camera

Image Sensor	1/2.8" STARVIS CMOS
Effective Pixels	2560(H) x1440(V)
Scanning System	Progressive
Electronic Shutter Speed	1/1 s–1/30,000 s
Minimum Illumination	0.005 lux@F1.6 (Color) 0.0005 lux@F1.6 (B/W) 0 lux (Illuminator on)
S/N Ratio	≥ 55 dB
Illumination Distance	492 ft (149.96 m)
Illumination On/Off Control	Zoom Prio, Manual, Auto, Off
Illumination LEDs	4 IR LEDs

Lens

Focal Length		3.95 mm–177.75 mm			
Max. Aperture		F1.6–F4.95			
Angle of View		H: 65.7°–1.9°, V: 39.4°–1.1°, D: 73.1°–2.1°			
Optical Zoom		45×			
Focus Control		Auto/Semi-Auto/Manual			
Close Focus Distance		0.33 ft–3.28 ft (0.1 m–1 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	259 ft	104 ft	51 ft	25 ft
	T	11662 ft	4665 ft	2332 ft	1165 ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0°–360° endless Tilt: –15° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°/s–300°/s, Tilt: 0.1°/s–200°/s
Preset Speed	Pan: 400° /s; Tilt: 300° /s
Presets	300
PTZ Mode	5 Patterns, 8 Tour (up to 32 presets), 5 scan
Power up Action	Preset/Tour/Pattern/Scanning/Auto
Idle Motion	Preset/Tour/Pattern/Scanning
Scheduled Task	Preset/Tour/Pattern/Scanning/Auto

Video

Compression	Smart H.265+; Smart H.264+, H.265; H.264; H.264H; H.264B; MJPEG (sub stream only)
Streaming Capability	3 Streams
Resolution	4MP (2560 × 1440), 3MP (2048 × 1536/2304 × 1296),1080p (1920 × 1080), 1.3MP (1280 × 960), 720p (1280 × 720), D1 (704 ×576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 4MP/3MP/1080p/1.3MP/720p (1–30 fps) Sub stream 1: D1/CIF (1–30 fps) Sub stream 2: 720p (1–30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 256 Kbps–15104 Kbps H.265: 102 Kbps–9216 Kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Mode	Off / BLC / HLC / WDR (120dB)
White Balance	Auto/Indoor/Outdoor/ATW/Manual/Sodium Lamp/ Natural/Street Lamp
Gain Control	Auto / Manual
Noise Reduction	2D NR, 3D NR
Region of Interest	Off / On (8 Area, Rectangle)
Image Stabilization	Electronic
Defog	Electronic
Image Rotation/Flip	180°
Privacy Masking	Supported (24 areas with up to 8 areas in the same view)

Intelligence

Video Content Analytics	Crossing virtual fence, line crossing, intrusion, abandoned object, parking detection, aggregate detection, missing object, loitering detection
Advance Intelligence	iMD (Human & Vehicle); Face Detection; People Counting; Video Metadata
AiPick (Search Extraction)	Uses deep learning algorithms along with back-end devices to accurately match targets, such as people and motor vehicles, and search through live and recorded videos to quickly locate the target.

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, SMTP, NTP, DHCP, DNS, DDNS, IPv6, 802.1x, SSL, QoS, FTP, UPnP, SNMP, ARP, PPPoE, RTMP, Bonjour, NFS
Interoperability	ONVIF (Profile S, G, T, M), CGI, SDK, P2P
Max. User Access	20 (total bandwidth 64M)
Edge Storage	Micro SD card (512 GB), FTP, NAS
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	ICView Core
Smart Phone	IOS, Android

Technical Specification

Audio

Compression	G.711a, G.711Mu, PCM

Interface

Audio I/O	2 inputs, 1 output
Alarm I/O	1 input, 1 output

Environmental

Operating Conditions	–40 °F to +158 °F (–40 °C to +70 °C)
Ingress Protection	IP67
Impact Protection	IK10

Certifications

Certifications	FCC Part 15, Subpart B

Electrical

Power Supply	DC 24V/2.5A or PoE+ (802.3at)
Power Consumption	Max. 23 W

Construction

Casing	Metal
Dimensions	Ø7.52" × 13.07" (Ø191 mm × 332 mm)
Net Weight	10.36 lb (4.7 kg)
Gross Weight	17.64 lb (8.0 kg)

Dimensions (mm/in)

