



IP-2PT-2IZ3A





2MP 3× Starlight IR PTZ Network Camera

Features

- > 1/2.8" 2Megapixel STARVIS™ CMOS
- > Powerful 3x optical zoom
- > Starlight, WDR
- > Max. 25/30fps@1080P
- > IVS
- > Support PoE
- > IP66













System Overview

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 1080P resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

Starlight Technology

For challenging low-light applications, Saitell's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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.

Environmental

The cameras operate in extreme temperature environments, rated for use in temperatures from -30 °C to +60 °C (-22 °F to +140 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

Interoperability

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





EmPower IP Series

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Technical Specification

Camera	
Image Sensor	1/2.8" STARVIS™ CMOS
Effective Pixels	1920(H) x 1080(V), 2 Megapixels
RAM/ROM	512M/128M
Scanning System	Progressive
Electronic Shutter Speed	1/1s~1/30,000s
Minimum Illumination	Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 15m (49.2ft)
IR On/Off Control	Auto/Manual
IR LEDs	3

Lens	
Focal Length	2.7mm~8.1mm
Max. Aperture	F1.8
Angle of View	H: 105.6° ~ 35.2°
Optical Zoom	3x
Focus Control	Auto/Manual
Close Focus Distance	100mm~ 1000mm

DORI Distance

*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

Detect	Observe	Recognize	Identify
100.4m(329.4)	40.2m(131.9ft)	20.1m(65.9ft)	10m(32.8ft)

PTZ

Pan/Tilt Range	Pan: 0° ~ 355°; Tilt: 5° ~ 90°
Manual Control Speed	Pan: 0.1° ~70° /s; Tilt: 0.1° ~30° /s
Preset Speed	Pan: 80° /s; Tilt: 40° /s
Presets	300
PTZ Mode	8 Tour
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/Tour if there is no command in the specified period
Protocol	UNS-SD
Intelligence	
Auto Tracking	N/A
IVS	Tripwire, Intrusion, Abandoned/Missing, Face

Video

Compression	H.265+/H.265/H.264+/H.264
Streaming Capability	3 Streams
Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
	Main stream: 1080P/720P(1 ~ 25/30fps)
Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)
	Sub stream2: 720P/D1/CIF(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265/H.264: 448K ~ 8192Kbps
Day/Night	Auto(ICR) / Color / B/W
Backlight Compensation	BLC / HLC / WDR(120dB)
White Balance	Auto,ATW,Indoor,Outdoor,Manual
Gain Control	Auto / Manual
Noise Reduction	Ultra DNR (2D/3D)
Motion Detection	Support
Region of Interest	Support
Electronic Image Stabilization (EIS)	N/A
Defog	Support
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas

Audio

Compression

Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 users
Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Unisight VMS
Smart Phone	IOS, Android

G.711a/G.711mu/G.726/AAC

Certifications

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4- 2014
	UL: UL60950-1+CAN/CSA C22.2,No.60950-1







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Interface

Video Interface	N/A
RS485	N/A
Audio I/O	Mic in/Line in, Line out
Alarm I/O	N/A

Electrical

Power Supply	DC 12V/1.5A, PoE(802.3af)
Power Consumption	6W

Environmental

Operating Conditions	-30°C ~ 60°C (-22°F ~ +140°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	IK08

Construction

Casing	Metal
Dimensions	Ф128 (mm) x 63 (mm)
Net Weight	0.485kg(1.07lb)
Gross Weight	0.7kg(1.54lb)

Accessories(Optional)



PFA107 Mount Adapter



PFB305W Wall Mount



PFB220C Ceiling Mount



DC12V/2APower Adapter

Dimensions(mm)





