

ICIP-PANO-A820

8x2MP (16MP Total) 360° Panoramic Pan-Tilt Zoom Dome Network Camera



- 8x1/1.9" 2MP progressive-scan CMOS
- 360° panoramic view
- 2x25fps@4096x1800 + 60fps@1080P
- Micro SD memory, IP67, IK10

System Overview

The ICIP-PANO-A820 camera combines eight (8) 2MP lenses working in unison to create a comprehensive, 360° view, with a high-speed PTZ camera to focus on specific areas. With its all-in-one design, the camera provides a 360° panoramic view, along with region of interest details at the same time. In addition, the camera offers the Advanced Intelligence (AI) video system, a built-in video analytic algorithm that delivers intelligent functions to monitor a scene such as Tripwire, Intrusion Detection, Auto Tracking, and Abandoned/Missing Object detection.

Starlight sensors on the camera allows for extreme performance in the most challenging low-light applications. Vivid color details are captured in light as low as 0.005 Lux. The camera also has True WDR, up to 120 dB. The auto-tracking capability on the PTZ lens may be enabled manually, or triggered by AI rules. H.265 compression is employed on this camera as well. The ICIP-PANO-A820 can replace multiple single-lens cameras providing a higher return on investment.

Technical Specification

Camera

Image Sensor	8x1/1.9" 2MP CMOS
Effective Pixels	2x4096(H) × 1800(V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100,000s
Minimum Illumination	0.005Lux@F2.2 (Color, 1/3s, 30IRE) 0.03Lux@F2.2 (Color, 1/30s, 30IRE) 0.003Lux@F2.2 (B/W, 1/3s, 30IRE) 0.02Lux@F2.2 (B/W, 1/30s, 30IRE)
S/N Ratio	> 50dB

Panoramic Lens

Type	Fixed
Mount Type	Board-in
Focal Length	5mm
Max. Aperture	F2.2
Angle Of View	H: 360°; V: 80°

PTZ Camera

Image Sensor	1/1.9" 2 Megapixel CMOS
Effective Pixels	1920(H) × 1080(V)
RAM / ROM	1024MB / 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1~1/30,000s
Minimum Illumination	0.002Lux@F1.5 (Color, 1/3s, 30IRE) 0.01Lux@F1.5 (Color, 1/30s, 30IRE) 0.001Lux@F1.5 (B/W, 1/3s, 30IRE) 0.008Lux@F1.5 (B/W, 1/30s, 30IRE)
S/N Ratio	> 50dB

PTZ

Pan / Tilt Range	Pan: 0° ~ 360° endless; Tilt: -20° ~ 90°, auto flip 180°
Manual Control Speed	Pan: 0.1° ~ 240° /s; Tilt: 0.1° ~ 120° /s
Presets	300
Modes	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 / Pattern if no commands received in a specified period
Protocol	ICR-SD, Pelco-P/D (Auto recognition)

Intelligence

Auto-Tracking	Supported
IVS	Tripwire, Intrusion

Video

Compression	H.265 / H.264
Streaming Capability	3 Streams
Resolution	PANO: 2 × 4096×1800 / 2 × 3840×1680 / 2 × 2880×1264 / 2 × 1920×832 / 2 × 1280×560 / 2 × 1024×452 PTZ: 1080P (1920×1080) / 1.3MP (1280×960) / 720P (1280×720) / D1 (704×576 / 704×480) / CIF (352×288 / 352×240)
Frame Rate	PANO: Main Stream: 2 × 4096×1800 (1 ~ 25fps) Sub Stream: 2 × 1024×452 (1 ~ 30fps) Third Stream: 2 × 1920×832 (1 ~ 30fps) PTZ: Main Stream: 1080P (1 ~ 60fps) Sub Stream: D1 (1 ~ 60fps) Third Stream: 1080P (1 ~ 60fps)
Bit Rate Control	Hn
Bit Rate	Pano: H.265: 2 × 14Kbps ~ 8192Kbps; H.264: 2 × 24Kbps ~ 8192Kbps PTZ: H.265: 4Kbps ~ 8192Kbps; H.264: 8Kbps ~ 7168Kbps
Day / Night	Auto (ICR) / Color / B/W
BLC Modes	BLC / HLC / WDR
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Defog	Supported (PTZ only)
Digital Zoom	16x
Privacy Masking	Pano: Off / On (4 area, rectangle) PTZ: Off / On (24 area, rectangle)

Audio

Compression	G.711a / G.711Mu / AAC / G.726
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP, HTTPS, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP, DHCP, DNS, DDNS, PPPoE, IPv4/v6, QoS, UPnP, NTP, Bonjour, 802.1x, Multicast, ICMP, IGMP, & SNMP
Interoperability	ONVIF, PSIA, & CGI
Streaming Method	Unicast / Multicast
Max User Access	10 / 20
Edge Storage	Network Attached Storage (NAS) Local PC for instant recording Micro SD card ≤128GB

Interface

Video	1 Port (For PTZ camera)
Audio	2/1 channel In/Out
RS-485	1 Port
Alarm	7 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

Power Supply	DC36V
Power Consumption	< 120W

General

Operating Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / < 95% RH
Storage Conditions	-40° C ~ +60° C (-40° F ~ +140° F) / < 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

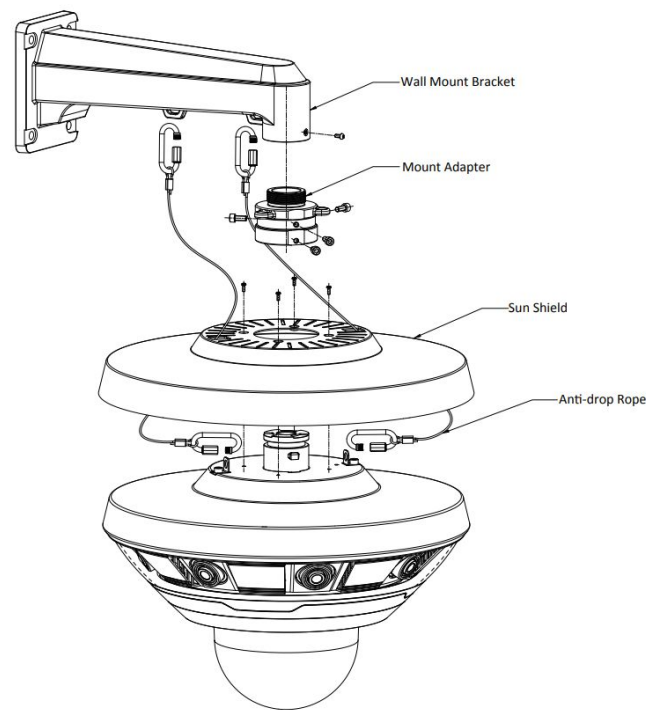
Construction

Casing	Metal
Dimensions	Φ449.5mm×342.5mm(Φ17.7"×13.48")
Net Weight	16kg(35.27lb)
Gross Weight	25kg(55lb)

Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
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Accessories



Dimensions (mm/in)

