ICIP-D2022-28-C
2MP HD Recessed Mount Dome Network Camera

- 1/2.8" 2 Megapixel progressive Starvis TM CMOS
- H.265&H.264 triple-stream encoding
- 50/60fps@1080P(1920×1080)
- Smart Detection supported
- WDR(120dB), Day/Night(ICR), 3DNR, AWB,AGC,BLC
- 2.8mm fixed lens
- Built-in Mic
- Micro SD memory, IK08, PoE

System Overview

The camera to choose when aesthetics matter, the ICIP-D2022-28-C. A camera with a minimalistic footprint yet premier features and resolution.

The ICIP-D2022-28-C is a recessed mount Dome camera, designed to be installed in ceiling mount applications. The recessed can allows for all of the camera components to be concealed inside the ceiling while leaving a small, sleek dome footprint exposed for the lowest profile dome camera possible. Inside the chassis is a 1/3" 4MP CMOS based image sensor that supports True WDR (120 dB). The HD 2MP image itself is compressed on board is triple encoded into three separate streams, and supports both H.265 and H.264 compression for the highest fidelity of video while maintaining the lowest bitrate possible. A 2.8mm lens offers a 110 degree horizontal field of vision

The real magic of this camera lies in it's AI (Advanced Intelligence) suite of features, which includes: Tripwire, Intrusion, Scene Change, and Face Detection.

Functions

Wide Dynamic Range
Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (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 abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

Environmental
With a temperature range of -10 °C to +45 °C (14 °F to +113 °F), the camera is designed for soft indoor temperature environments.

Protection
Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning. IK08 compliance enables the camera to sustain the equivalent of 1.7kg (3.75lbs) force.

Smart H.265+
Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)
The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Technical Specification

Camera

Image Sensor	1/2.8" 2 Megapixel Progressive CMOS
Effective Pixels	1920(H) x 1080(V)
RAM/ROM	256MB / 32MB
Scanning System	Progressive
Electronic Shutter Speed	Auto / Manual, 1/3(4)~1/100000s
Minimum Illumination	0.009Lux/F2.0(Color,1/3s,30IRE) 0.07Lux/2.0(Color,1/3s,30IRE) 0.005Lux/F2.0(B/W,1/3s,30IRE) 0.03Lux/2.0(B/W,1/30s,30IRE)
S/N Ratio	More than 50dB
IR Distance	N/A
IR On/Off Control	N/A
IR LEDs	N/A

Lens

Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm
Max. Aperture	F2.0
Angle of View	H: 110°, V: 60°
Optical Zoom	N/A
Focus Control	Fixed
Close Focus Distance	N/A

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	44m(144ft)	17m(56ft)	9m(30ft)	4m13ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0˚~360˚; Tilt:0˚~90˚; Rotation:0˚~360˚

Intelligence

IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection

Video

Compression	H.265+ / H.265 / H.264+ / H.264
Streaming Capability	3 Streams
Resolution	1080P(1920x1080)/SXGA(1280x1024)/1.3M(1280x960)/720P(1280x720)/D1(704x576|704x480)/VGA(640x480)/CIF(352x288|352x240)
Frame Rate	Main stream: 1080P(1~50/60fps)
	Sub Stream: D1(1~50/60fps)
	Third Stream: 720P(1~50/60fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265:12K~6912Kbps H.264:32K~10240Kbps
Day/Night	Electronic
BLC Mode	BLC / HLC / WDR (120dB)
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)
Electronic Image Stabilization (EIS)	N/A
Smart IR	N/A
Defog	N/A
Digital Zoom	16x
Flip	0° / 90° / 180° / 270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

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

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	20 Users
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android

Certifications

Certifications	CE (EN 60950:2000) FCC: FCC Part 15 Subpart B

Interface

Video Interface	N/A
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A

Electrical

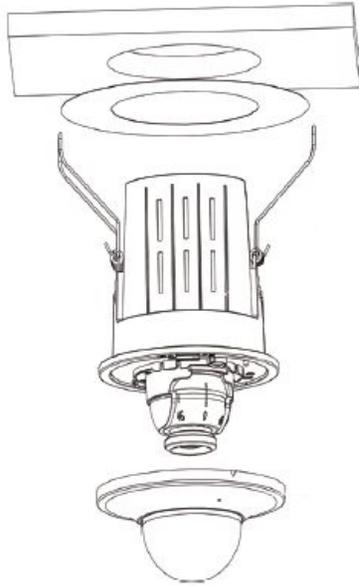|	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<3.5W

Environmental

Operating Conditions	-10° C ~ -45° C (14° F ~ +113° F) / Less then 95% RH
Storage Conditions	-10° C ~ -45° C (14° F ~ +113° F) / Less then 95% RH
Ingress Protection	N/A
Vandal Resistance	IK08

Construction

Casing	Plastic
Dimensions	93mm x 116.5mm (3.65" x 4.58")
Net Weight	0.225Kg (0.50lb)
Gross Weight	0.37Kg (0.82lb)

Accessories

Dimensions (mm/in)

Ø75.0 (mm)

116.5 (mm)

Ø49.2(mm)

Ø93.0(mm)