



- 1/2.8" 2 Megapixel progressive scan STARVIST™ 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
- 3.6mm fixed lens
- Max. IR LEDs Length 30m
- IP67, PoE

System Overview

Similar in design to cameras like the ICR2000, the ICIPD2000IR-B is an orbital, free-floating dome camera. This camera is a popular seller, due to its high resolution and ease of installation. Inside the camera, it contains a high resolution, 2 Megapixel Sony Progressive Scan Exmor CMOS sensor, capable of outputting a crisp, clear image. The optics on this camera include a fixed 3.6mm lens. Built in IR LED illumination is effective up to 98' at 0 light.

Functions

Starlight Technology

Featuring Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.009 lux).

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, and Facial Detection, for searching or identification of individuals.

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 scan CMOS				
Effective Pixels	1920(H)x1080(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,1/30s,30IRE) 0Lux/F2.0(IR on)				
S/N Ratio	More than 50dB				
IR Distance	Distance up to 30m (98ft)				
IR On/Off Control	Auto/ Manual				
IR LEDs	12				

Lens

Lens Type	Fixed				
Mount Type	Board-in				
Focal Length	3.6mm				
Max. Aperture	F2.0				
Angle of View	H: 87°, V: 48°				
Optical Zoom	N/A				
Focus Control	Fixed				
Close Focus Distance	N/A				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6 mm	180ft	72ft	36ft	20ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				
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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)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)				
	Main Stream: 1080P(1~50/60fps)				
Frame Rate	Sub Stream: D1(1~50/60fps)				
	Third Stream: 1080P(1~25/30fps)				
Bit Rate Control	CBR/VBR				
Bit Rate	H.264: 24~9472Kbps H.265: 14~5632Kbps				
Day/Night	Auto(ICR) / Color / B/W				
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

Support

Defog

N/A

Digital Zoom

16x

Flip

0° / 90° / 180° / 270°

Mirror

Off / On

Privacy Masking

Off / On (4 Area, Rectangle)

Audio

Compression

N/A

Network

Ethernet

RJ-45 (10/100Base-T)

Protocol

HTTP; HTTPS; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/6; QoS; UPnP; NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP

Interoperability

ONVIF, PSIA, CGI

Streaming Method

Unicast / Multicast

Max. User Access

10 Users / 20 Users

Edge Storage

NAS
Local PC for instant recording

Web Viewer

IE, Chrome, Firefox, Safari

Management Software

SmartICRSS, DSS

Smart Phone

IOS, Android

Certifications

Certifications

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

Interface

Video Interface

N/A

Audio Interface

N/A

RS485

N/A

Alarm

N/A

Electrical

Power Supply

DC12V, PoE (802.3af)(Class 0)

Power Consumption

<6W

Environmental

Operating Conditions

-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH

Storage Conditions

-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH

Ingress Protection

IP67

Vandal Resistance

N/A

Construction

Casing

Metal

Dimensions

93.4mmx79.4mm (3.68" x 3.13")

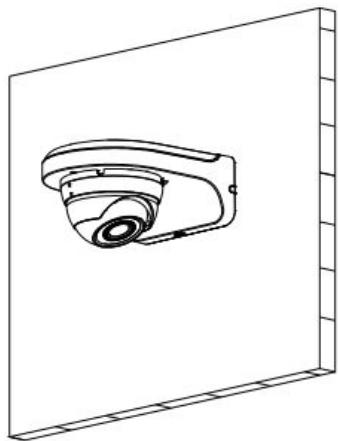
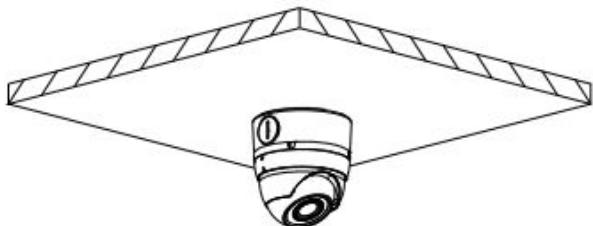
Net Weight

0.3Kg (0.66lb)

Gross Weight

0.42Kg (0.93lb)

Accessories



Dimensions (mm/in)

