ICIP-D720IR-T12
12MP Panoramic Network IR Fisheye Camera

IC REALTIME

- 1/1.7" 12 Megapixel progressive scan STARVIS™ CMOS
- H.265/H.264 triple-stream encoding
- Max 25fps@12M(4000x3000)
- Multiple dewarped Mode
- Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Smart detection
- Intelligent Function
- Max. IR LEDs length 10m
- Micro SD memory, IP67, IK10, PoE

System Overview

A 12.0 megapixel 360° Indoor/Outdoor Dome camera with a built in microphone. The ICIP-D720IR-T12 series camera is a real-time, 360° situational awareness camera. It is capable of recording a wide area of surveillance and de-warping the native fisheye view in order to watch a stream that is undistorted to the human eye.

Functions

True Day/Night
A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Dewarping Mode
Fisheye dewarping solves the problem of distortion in the circular panoramic view. The camera offers multiple dewarping modes for different installations and configurations, either with an AVR, NVR or, via the Web interface. Each dewarping mode offers options to adjust each scene.

Advanced Intelligence (Heatmap)
In addition to the basic IVS functions, such as Tripwires and Intrusion Zones, this camera also supports more advanced IVS solutions. Heat Maps will overlay different 'thermographic' colors depending on activity levels in a region ranging from blue to red. Heat Mapping provides essential analytic data for a variety of business applications by keeping track of key crowd density statistics.

Smart IR
With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 10m (33ft).

HEVC(H.265)
H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc

Protection (IP67, IK10, wide voltage)
Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. IP67 is supported by the camera, which makes it suitable for both indoor and outdoor environments. IK10 compliance enables the camera to sustain the equivalent of 5kg (11.02Ibs) force.

HS-20190506-HV2-D1.02

IC REALTIME

Technical Specification

Camera

Image Sensor	1/1.7" 12 Megapixel progressive scan CMOS
Effective Pixels	4000(H)x3000(V)
RAM/ROM	1024MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.001Lux/F2.8(Color,1/3s,30IRE) 0.01Lux/F2.8(Color,1/30s,30IRE) 0Lux/F2.8(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 10m (33ft)
IR On/Off Control	Auto / Manual
IR LEDs	3, 850nm Wavelength

Lens

Lens Type	Fixed			
Mount Type	Board-in			
Focal Length	1.98mm			
Max. Aperture	F2.8			
Angle of View	H: 180˚, V:180˚			
Optical Zoom	N/A			
Focus Control	Fixed			
Close Focus Distance	N/A			
DORI Distance	Detect	Observe	Recognize	Identify
	42m(138ft)	17m(56ft)	8m(27ft)	4m(14ft)

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	N/A

Intelligence

IVS	Tripwire, Intrusion
Advanced Intelligent Functions	Heat Map

Video

Compression	H.265/H.264
Streaming Capability	3 Streams
Resolution	12M(4000×3000)/ 8M(2880×2880)/ 6M(2880×2160)/ 3M(2048x1536)/ 1.3M(1280x960)/ D1(704×576/704×480)/ CIF(352×288/352×240)
Frame Rate	Main Stream: 12M(1~25fps)/ 8M(1~25/30fps)
	Sub Stream: D1(1 ~ 25/30fps)
	Third Stream: 1.3M(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.265: 3Kbps~ 9984Kbps H.264: 8Kbps~ 16384Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR
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	Support
Digital Zoom	16x
Flip	N/A
Mirror	N/A
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	10 Users /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) UL:UL60950-1 FCC: FCC Part 15 Subpart B

Interface

Video Interface	N/A
Audio Interface	1/1 channel In/Out, 1 Built-in Mic
RS485	N/A
Alarm	2 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC

Electrical

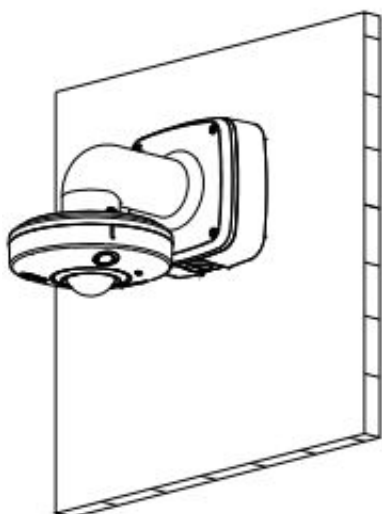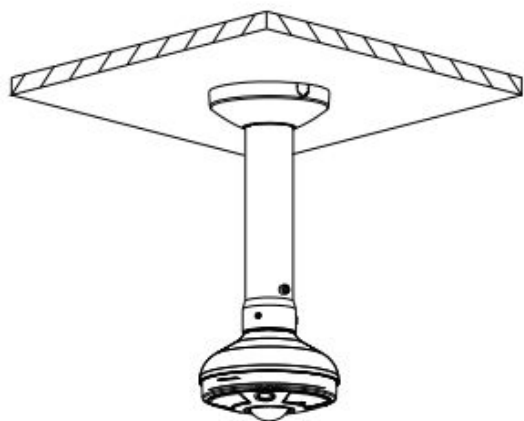|	
Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	<12W

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	IK10

Construction

Casing	Metal
Dimensions	Ø149.8mm×47.7mm(Ø5.9"×1.88")
Net Weight	0.58kg(1.28lb)
Gross Weight	1.0kg(2.2lb)

Accessories

Dimensions (mm/in)

47.7 [1.88"]

⌀149.8 [⌀5.9"]

⌀90.0 [⌀3.54"]

3-⌀6.2 [⌀0.25"]