AVS-PANO-A007
3-in-1 2 Megapixel Indoor/Outdoor Bullet IR AVS Camera

IC REALTIME

- Three 1/2.8" 2 Megapixel progressive scan Starlight™ CMOS
- 1 panoramic view & 3 individual 2MP video outputs
- Max. 15fps@4K,25fps@4M
- Supports 180-degree panoramic view
- Day/Night(ICR), 3DNR, AWB, AGC, BLC,WDR
- Max. IR LEDs length 20m
- IP67, IK10

System Overview

IC Realtime's unique 3 lens camera provides added flexibility for capturing wide area surveillance. Meet the AVS-PANO-A007. With three 2MP I-Sniper sensors working in unison, this camera creates a panoramic, 180° overview, allowing the camera to replace multiple single sensor cameras at a lower overall cost. Each sensor is the latest I-Sniper gen2 chipset which provides vibrant color at the lowest levels of illumination, and strong WDR capabilities.

Functions

180° Panoramic View
Equipped with 3x2MP CMOS sensors, this panoramic camera can monitor full horizontal views and deliver high quality comprehensive 180-degree coverage with no blind spots. The camera is able to provide coverage of wide, open areas, such as airports, harbours, parks, public squares,shopping malls and more.

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.

Starlight Technology
Featured with Starlight Technology, the camera is ideal for applications with challenging light 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 nearly complete darkness.

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.

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 20m (~66ft).

Protection (IP67, IK10, wide voltage)
The camera's outstanding reliability, unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 rating, making it suitable for indoor or outdoor environments. The camera complies with an IK10 vandal resistance rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in). It also features ±25% input voltage tolerance, allowing it to operate under unstable power supply conditions. Its 4KV lightning rating provides protection from the effects of a lightning strike.

Technical Specification

Camera

Image Sensor	Three 1/2.8" 2 Megapixel Starlight CMOS
Effective Pixels	4K(3840x832)/4M(2560x554)
RAM/ROM	1024MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.007Lux/F1.8(Color,1/3s,30IRE) 0.05Lux/F1.8(Color,1/30s,30IRE) 0Lux/F1.8(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 20m(~66ft)
IR On/Off Control	Auto/ Manual
IR LEDs	6

Lens

Lens Type	Fixed
Mount Type	Board-in
Focal Length	3.6mm
Max. Aperture	F1.8
Angle of View	H: 180°
Optical Zoom	N/A
Focus Control	N/A
Close Focus Distance	N/A

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	171ft	69ft	33ft	16ft

Pan/Tilt/Rotation

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

Video

Resolution	4K (3840X2160)/4MP(2560×1440)
Frame Rate	3840×2160@15fps, 2560x1440@25fps;
Video Output	1-channel BNC HDCVI panoramic video output & 3-channels BNC 2MP HDCVI video output
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / WDR (120dB)
WDR	120dB
Gain Control	AGC
Noise Reduction	2D/3D
White Balance	Auto / Manual
Smart IR	Auto / Manual

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)

Certifications

Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)

Interface

Video Interface	1-channel BNC high definition video output / CVBS video output (DIP switch)
Audio Interface	1-channel audio in(JACK)
Alarm	2/1
Test Interface	1-channel 2-pin CVBS video output
Upgrade Interface	1-channel 4-pin USB input
Code switcher	1 physical code switch(switch the preset video source)
Menu set	1 Five-direction button

Electrical

Power Supply	24V AC ±25%
Power Consumption	24W

Environmental

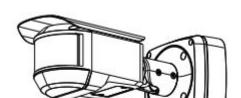|	
Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 95% RH * Start up should be done at above -30°C (-22°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67&IK10

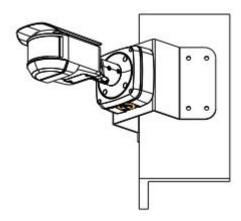### Construction

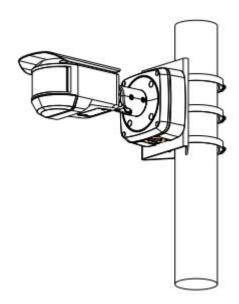|	
Casing	Aluminium
Dimensions	286mm x 119mm x 106mm(11.26"×4.68"×4.19")
Net Weight	2.05kg (4.5lb)
Gross Weight	2.43kg (5.36lb)

Accessories

Dimensions (mm/in)

286.1 [11.26"]

188.5 [7.42"]

119.0 [4.68"]

106.4 [4.19"]