AVS-D2712SL
2MP Starlight HD-AVS IR Dome Camera

IC REALTIME

- Starlight, 120dB True WDR, 3DNR
- Max. 30fps @ 1080P
- HD / SD dual-output
- 2.7 - 12mm motorized lens
- Max IR LED length 164' / 50m, Smart IR
- IP67, IK10, AC24V / DC12V

System Overview

When an entry level dome camera just won't do – look no further than the AVS-D2712SL.

This sleek indoor/outdoor HD-AVS dome camera packs some serious hardware. Powered by a large 1/2.8''CMOS i-Sniper sensor, this image sensor achieves maximum light gathering capability with image sharpness levels to match. Due to the large image sensor, the camera itself is able to remain in color (Day) mode longer than typical Day/Night cameras, and display full color video with only minimal lighting.

On top of the iSniper imager sits a motorized 2.7mm-12mm lens which provides anywhere from a 95 to 36 degree Field of View.

Supporting HD-AVS, this camera can be used for retrofit as well as green field installations. Typical applications for this type of camera include: Parking Lots, Warehouses, Exterior Residential, and commercial applications.

Like all HD-AVS cameras from IC Realtime, a compatible HD-AVS recorder is required to provide HD video transmission up to 900' over conventional Coaxial cable.

Functions

4 Signals over 1 Coaxial Cable
HD-AVS technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HD-AVS camera to interact with the AVR, such as sending control signal or triggering alarm. Moreover, HD-AVS technology supports PoC for construction flexibility.
* Audio input is available for some models of HD-AVS cameras.

Long Distance Transmission
HD-AVS technology guarantees real-time transmission at long distances without any loss. It supports up to 2,624' / 800m transmission for 1080P video via coax cable, and up to 984' / 300m via UTP cable.

Starlight
For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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

Multiple Interfaces
AVS-D2712SL is designed with multi-interfaces for transmitting / receiving various signals. It has both HD-AVS (IC Realtime only) and CVBS (standard analog 960H/D1) video outputs on separate BNC connectors, as well as test interface for debugging. It contains an audio input and an alarm input / output for connecting to external devices. Multiple Interfaces allow for flexibility in video monitoring, which facilitates deployment and construction.

Smart IR
With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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 50m (164ft).

Protection
The camera's outstanding reliability is 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 Specifications

Camera

Image Sensor	1/2.8" CMOS
Effective Pixels	1945(H) x 1097(V), 2.1MP
Scanning System	Progressive
Electronic Shutter Speed	1s ~ 1/30,000s
Minimum Illumination	0.005Lux @ F1.4, 30IRE, 0Lux IR On
S/N Ratio	> 65dB
IR Distance	164' / 50m
IR On/Off Control	Auto / Manual
IR LEDs	3

Lens

Type	Motorized / Auto Iris
Mount Type	Board-in
Focal Length	2.7 - 12mm
Max. Aperture	F1.4
Angle of View	H: 95° ~ 36°
Focus Control	Auto / Manual
Close Focus Distance	11.8" / 300mm

DORI Distance	Detect	Observe	Recognize	Identify
	W 156' / 48m T 436' / 133m	W 62' / 19m T 174' / 53m	W 33' / 10m T 89' / 27m	W 16' / 5m T 43' / 13m

Pan/Tilt/Rotation

Pan / Tilt / Rotation Range	Pan: 0° ~ 355° Tilt: 0° ~ 65° Rotation: 0° ~ 355°

Video

Resolution	1080P (1920 x 1080)
Frame Rate	30fps @ 1080P 30fps / 60fps @ 720P
Output	1-channel BNC HD-AVS HD output 1-channel BNC CVBS output (960H / D1) CVBS test out
Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Modes	BLC / HLC / WDR
WDR	120dB
Gain Control	AGC
Noise Reduction	2D / 3D
White Balance	Auto / Manual
Smart IR	Auto / Manual

Certifications

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

Interface

Audio	1 Ch Audio In
Alarm	1 Ch In, 1 Ch Out

Electrical

Power Supply	12V DC ± 25% / 24V AC ± 25%
Power Consumption	Max 12.5W (12V DC, IR LEDs on)

Environmental

Operating Conditions	-22°F ~ 140°F / -30°C ~ 60°C; < 90% RH
Storage Conditions	-22°F ~ 140°F / -30°C ~ 60°C; < 90% RH
Ingress Protection / Vandal Resistance	IP67 / IK10

Construction

Casing	Aluminum
Dimensions	Φ6.3" × 4.6" / Φ159.1mm × 117.9mm
Net Weight	1.98lbs / 0.9kg
Gross Weight	2.65lbs / 1.2kg

Mounting

Wall or Ceiling

Expansion Bolt

Installation Position Map

Dome Body

Focus/Zoom Lever

Self-tapping Screw

Dome Enclosure

Locking Screw

Dimensions (mm / in)

159.1 [6.26"]

117.9 [4.64"]

⌀159.1 [⌀6.26"]

⌀140.0 [⌀5.51"]

3-⌀4.7 [⌀0.19"]