AVS-4KB8012-IR
4K Starlight HD-AVS IR Bullet Camera

IC REALTIME

- Starlight, 120dB True WDR, 3DNR
- Max. 4K resolution
- HD/SD switchable
- Audio in interface, built-in mi
- 2.8mm fixed lens
- Max. IR length 40m, Smart IR
- IP67, DC12V±30%

System Overview

Experience 4K video surveillance with the simplicity of reusing existing coaxial infrastructure. The 4K HD-AVS camera adopts a powerful advanced 1/1.8" image sensor, which provides superior high quality images. It also supports Starlight and 120dB true WDR for a clear image in poor lighting conditions. In addition, the camera features broadcast quality audio to provide enhanced supplementary evidence collection. Ultra-high definition and a complete set of features makes the 4K HD-AVS camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are demanded.

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 2,296' / 700m transmission for 4K and 4MP HD video via coaxial cable, and up to 984' / 300m via UTP cable.

Simplicity
HD-AVS technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HD-AVS system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Starlight
For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.006lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Broadcast-quality Audio
Audio information is used as supplementary evidence in video surveillance applications. The HD-AVS camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Multiple-formats
The camera supports multiple video formats including HD-AVS, CVBS, and other two common HD analog formats in the market. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

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

Advanced 3DNR
3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. IC Realtime's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting conditions. 3DNR also effectively decreases the required bandwidth and helps lower storage space requirements.

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Effective Pixels	3840(H)×2160(V), 8MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/4s~1/100,000s NTSC: 1/3s~1/100,000s
Minimum Illumination	0.005Lux/F1.6, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 40m (130ft)
IR On/Off Control	Auto / Manual
IR LEDs	2

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	2.8mm
Max. Aperture	F1.6
Angle of View	H: 110.8°
Focus Control	Fixed
Close Focus Distance	1800mm(70.87in')

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8MM	84m(276ft)	34m(112ft)	17m(56ft)	8m26ft)

Pan/Tilt/Rotation

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

Video

Resolution	8MP (3840×2160)
Frame Rate	15fps@4K, 20fps@6MP, 25/30fps@4MP
Video Output	1-channel BNC high definition video output / CVBS video output (DIP switch)
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

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	1ch in & Built-in Mic
RS485	N/A
Alarm	N/A

Electrical

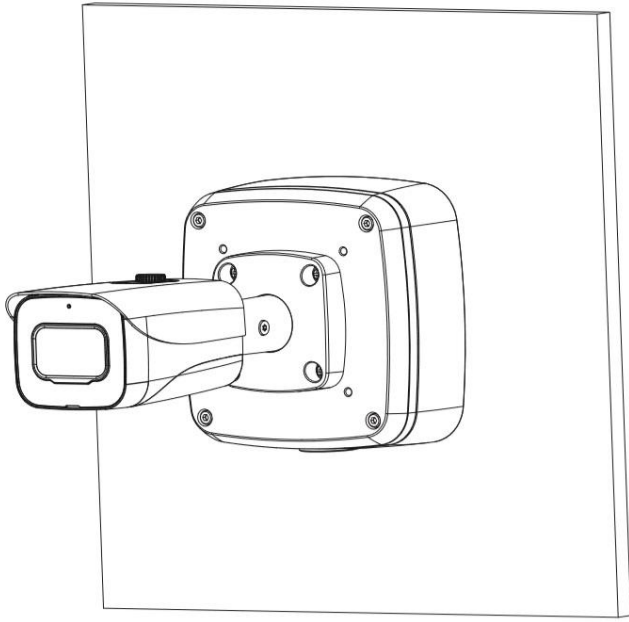|	
Power Supply	12V DC ±30%
Power Consumption	Max 6.8W (12V DC, IR on)

Environmental

Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH * Startup should be done at above -30°C (-22°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67

Construction

Casing	Aluminium
Dimensions	179.9mm×70mm×70mm (7.08"×2.76"×2.76")
Net Weight	0.42kg (0.93lb)
Gross Weight	0.53kg (1.17lb)

Mounting

Dimensions (mm/in)

179.9 [7.08"]

105.8 [4.17"]

94.9 [3.74"]

70 [2.76"]

69.3 [2.73"]

62 [2.44"]

70 [2.75"]

70 [2.76"]

48 [1.89"]

70 [2.75"]

48 [1.89"]

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