

CVIVD-EL8IR28A

8MP HD-CVI Vandal Dome



System Overview

Experience 4K video surveillance with the simplicity of reusing existing coaxial infrastructure. The 4K HDCVI camera adopts a powerful Dahua ISP and advanced 1/2" 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 HDCVI camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are demanded.

Features

HD-over-Coax

HD-over-Coax is a new analog high definition (HD) video standard transmitting over coaxial cable. The technology provides transmission of HD video as well as audio, and two-way control data over long distances. You can implement an HD system using the same coax cables that your existing analog system is running on. HD-over-Coax installs just like analog cameras and gives you up to 1080p High Definition. No fiber, no configuring, and no special training required.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distances without any video quality loss. It supports up to 700m transmission for 4K and 4MP HD video via coaxial cable, and up to 300m via UTP cable.

Starlight

The starlight standard sensor is just like the retina of your eyes which is sensitive to its ambient light, and the image quality is determined by how much light the sensor could use, together with the camera lens. The starlight camera technology uses larger and highly sensitive sensors, wider aperture and reduces the shutter speed to collect enough light for sharp monochrome/color images, even when human eyes couldn't identify a thing. So the starlight camera can see right through the darkness, even when it is challenging for your eyes.

Broadcast-quality Audio

Audio information can be a big part of evidence in video surveillance applications. This HDCVI camera supports audio signal transmissions over the coaxial cable. Self-adaptive support for normal coaxial audio and broadcast-quality audio not only simplifies operation, but also results in better audio quality and reduced noise interference.

- Starlight, 120dB True WDR, 3DNR
- Max. 4K resolution
- HD/SD switchable
- Audio in interface
- 2.8mm fixed lens
- Max. IR length 30m, Smart IR
- IP67, IK10, DC12V±30%



Multi-formats

4-in-1 Security cameras have replaced older analog only surveillance cameras also known as 960H cameras or CCTV cameras. 4-in-1 Security cameras are considered "universal cameras" because they can output three types of HD over Coax video signals (HD-CVI, HD-TVI, AHD) and analog resolution video (CVBS). The ability to easily switch video output from the cameras' BNC connector makes them compatible with all the popular Security DVRs.

Wide Dynamic Range (WDR)

When part of an image is extremely dark but another part is so bright you can't see any details, that's dynamic range—the difference in lighting. Cameras with wide dynamic range (WDR) have special software that allows them to balance that lighting for one clear image. This makes them ideal for recording areas like store entrances where the contrast between the sunshine outside and the dim lighting inside can be extremely difficult to record.

Advanced 3DNR

Have you ever taken a picture or video outside in the dark (without flash)? You've probably noticed that it can sometimes turn out to be very grainy. In technical terms, this is called noise. Noise is any unwanted interference in the signal. The latest form of Digital Noise Reduction is 3D-DNR. It compares every pixel with the pixels surrounding it in addition to every frame with the next. With 3D-DNR, a thorough processing of the image is applied, including the background. This results in a clearer image than traditional DNR and less space is taken on the hard disk drive.

Technical Specification

Camera	
Image Sensor	1/2" 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 30m (98feet)
IR On/Off Control	Auto / Manual
IR LEDs	1

Lens	
Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	2.8mm
Max Aperture	F1.6
Angle of View	H: 87° (110.8°)
Focus Control	Auto / Manual
Close Focus Distance	2500mm (1800mm) 98.43" (70.87")

DORI Distance

Note: The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm:84m(276ft) 3.6mm: 104m(341ft)
Observe	63px/m (19px/ft)	2.8mm:34m(112ft) 3.6mm:42m(138ft)
Recognize	125px/m (38px/ft)	2.8mm:17m(56ft) 3.6mm: 21m(69ft)
Identify	250px/m (76px/ft)	2.8mm:8m(26ft) 3.6mm:10m(33ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 355° Tilt: 0° ~ 75° Rotation: 0° ~ 355°
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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
WDR	120dB
Gain Control	AGC
Noise Reduction	2D/3D
White Balance	Auto / Manual
Smart IR	Auto / Manual

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)
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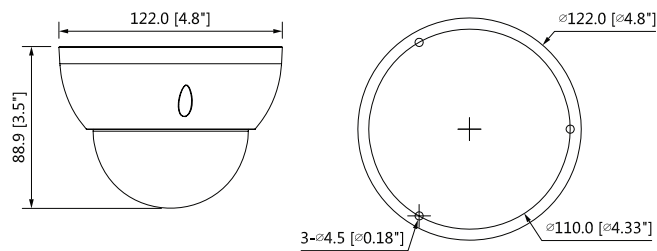
Interface	
Audio Interface	1

Eelectrical	
Power Supply	12V DC ±30%
Power Consumption	Max. 7W (12V DC, IR on)

Environmental	
Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH * Start up 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 & K10

Construction	
Casing	Aluminium
Dimensions	Φ122mm×88.9mm (Φ4.8"×3.5")
Net Weight	0.41kg (0.9lb)
Gross Weight	0.59kg (1.3lb)

Dimensions (mm/inch)



Accessories

Optional:



Junction Mount	Pole Mount
JB-EL137	WM-EL203W + PM-EL152-E
Wall Mount	
WM-EL203W	