

HDVD-ELE2IR28

2MP 2.8mm Vandal Dome Camera



System Overview

This camera provides a 1080P (1920 x 1080) resolution at 30 frames per second with its 2.8mm fixed lens, allowing for a clear view over a vast area. It has a IP67 rating, an IK10 impact rating and a 4KV lightning rating all of which makes the camera highly versatile. Smart IR prevents objects from being over or under illuminated in the cameras' view in situations with little to no visible light up to 98 feet. It also has white balance and motion detection, Digital Wide Dynamic Range, Backlight Compensation and Head-Light Compensation.

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.

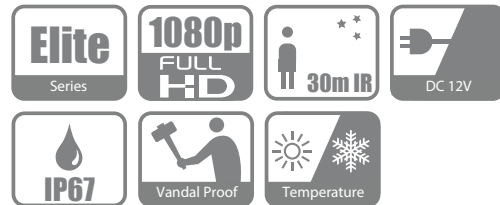
Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 800m (1080P)/1200m (720P) transmission via coaxial cable, and up to 300m (1080P)/450m (720P) via UTP cable.

Smart IR

Smart IR is a technology built into some security cameras that adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object so that the infrared does not overexpose the object.

- Max 30fps@1080P
- HD and SD output switchable
- 2.8mm fixed lens
- Max. IR length 30m, Smart IR
- IP67, IK10, DC12V



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.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. It is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. It also 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). With a working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 25\%$ input voltage tolerance, the camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection for the camera and its structure against the effects of lightning.

Technical Specification

Camera	
Image Sensor	1/2.7" CMOS
Effective Pixels	1920(H)×1080(V), 2MP
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s
Minimum Illumination	0.02Lux/F2.0, 30IRE, 0Lux IR on
S/N Ratio	More than 65dB
IR Distance	Up to 30m (98feet)
IR On/Off Control	Auto / Manual
IR LEDs	12

Lens	
Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	2.8mm
Max Aperture	F2.0
Angle of View	H: 115.6°
Focus Control	N/A
Close Focus Distance	900mm 35.43"

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: 42m(139ft) 3.6mm: 53m(175ft) 6mm: 78m(257ft)
Observe	63px/m (19px/ft)	2.8mm: 17m(55ft) 3.6mm: 21m(70ft) 6mm: 31m(103ft)
Recognize	125px/m (38px/ft)	2.8mm: 9m(28ft) 3.6mm: 11m(35ft) 6mm: 16m(51ft)
Identify	250ppm (76px/ft)	2.8mm: 4m(14ft) 3.6mm: 5m(17ft) 6mm: 8m(26ft)

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

Video	
Resolution	1080P (1920×1080)
Frame Rate	25/30fps@1080P, 25/30/50/60fps@720P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)

Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
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)

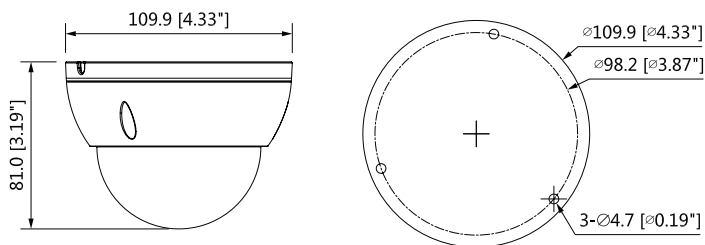
Interface	
Audio Interface	N/A

Eelectrical	
Power Supply	12V DC ±25%
Power Consumption	Max 3.2W (12V DC, IR on)

Environmental	
Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH
Ingress Protection & Vandal Resistance	IP67, IK10

Construction	
Casing	Aluminium
Dimensions	Φ109.9mm×81.0mm(Φ4.33"×3.19")
Net Weight	0.21kg (0.46lb)
Gross Weight	0.31kg (0.68lb)

Dimensions (mm/inch)



Accessories

Optional:



JB-EL136
Junction Box



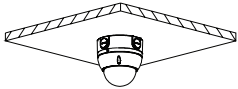
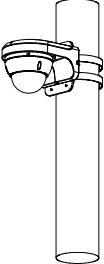
WM-EL203W
Wall Mount



PM-EL152-E
Pole Mount



HDUTC-EL
UTC Controller

Junction Mount	Pole Mount
JB-EL136	WM-EL203W + PM-EL152-E
	
Wall Mount	
WM-EL203W	
