

CVIVD-EL4F

4MP HDCVI WDR Fisheye Camera



System Overview

Experience superior 4MP video, a complete set of features, and the simplicity of reusing existing coaxial infrastructure with HDCVI. The 4MP HDCVI camera with 120dB true WDR, presents a high quality image with rich details and accurate color rendition for applications with complex lighting conditions. It offers a 180° fisheye panoramic view with a multilanguage OSD and HD&SD dual-output. With the use of advanced algorithms, several dewarping modes are available on the XVR (select models) and mobile client. Its higher resolution and complete set of features makes the 4MP HDCVI camera an ideal choice for mid to large size businesses and projects where both highly reliable surveillance and construction flexibility are needed.

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 700m transmission for 4MP HD video via coaxial cable, and up to 450m via UTP cable.

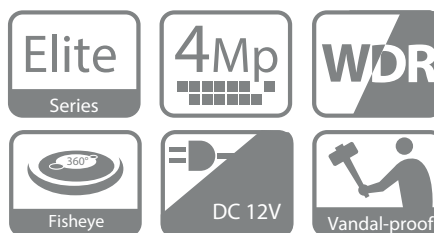
Wide Dynamic Range (WDR)

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.

- 120dB True WDR, 3DNR
- Max 4MP real-time
- HD and SD dual-output
- 1.18mm panoramic lens
- IK10, DC12V



Fisheye Dewarping

Fisheye dewarping is a function to solve the serious distortion problem of the circular panoramic view and you will have up to 10-modes of dewarping for different installations with our XVR or on the web. Every dewarping area is adjustable and optional as you want.

360° Panoramic View

Equipped with a fisheye lens for 360° surround view (ceiling/floor mount) or 180° panoramic view (wall mount) and high resolution with no blind spot. The camera is able to provide coverage of wide, open areas, such as airports, shopping malls, retail stores, offices and more. So you will get a whole scene just with one fisheye camera.

Multi-outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. Multi-outputs facilitates construction in such situations as debugging through a tester. It also offers the possibility for cooperating with multiple devices including analog matrix or monitor.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against vandalism and IK10-rated, making it suitable for most environments such as retail stores, manufacturing and commercial facilities. Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification

Camera

Image Sensor	1/3" CMOS
Effective Pixels	2688(H)×1520(V), 4.1MP
Scanning System	Progressive
Electronic Shutter Speed	PAL:1/4s~1/100,000s NTSC:1/3s~1/100,000s
Minimum Illumination	0.01Lux/F2.0 (Color), 0.001lux/F2.0(B/W), 30IRE
S/N Ratio	More than 65dB
IR Distance	NA
IR On/Off Control	NA
IR LEDs	NA

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	1.18mm
Max Aperture	F2.0
Angle of View	H: 180°
Focus Control	N/A
Close Focus Distance	100mm 3.94"

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)	24m(77ft)
Observe	63px/m (19px/ft)	9m(31ft)
Recognize	125px/m (38px/ft)	5m(15ft)
Identify	250px/m (76px/ft)	2m(8ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: NA Tilt: NA Rotation: NA
-------------------	-------------------------------------

Video

Resolution	4MP (2560×1440)
Frame Rate	25fps@4MP
Video Output	1-channel BNC HDCVI high definition video output & 1-channel BNC CVBS video output
Day/Night	Auto (Electronic) / 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	NA

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)
----------------	---

Eelectrical

Power Supply	12V DC ±25%
Power Consumption	Max 2.2W (12V DC)

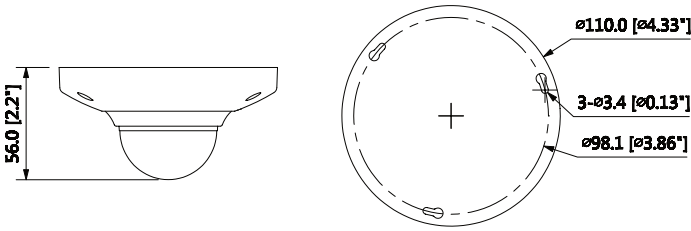
Environmental

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	IK10

Construction

Casing	Aluminium
Dimensions	φ110mm×56mm (φ4.3"×2.2")
Net Weight	0.41kg (0.9lb)
Gross Weight	0.45kg (0.99lb)

Dimensions (mm/inch)



Accessories

Optional:



WM-EL203W
Wall mount



PM-EL152-E
Pole mount

Wall Mount	Pole Mount
WM-EL203W	WM-EL203W + PM-EL152-E