

CFE5E1WF-S/A

5MP CVI Fisheye W/ Audio



- 1/2.8" 5Megapixel progressive scan CMOS
- Panoramic fisheye lens
- Max. 20fps@5MP
- Built-in Mic
- 120db true WDR, Starlight, 2D&3D NR
- Max. IR length 10m, Smart IR
- DC12V

System Overview

This is a 5MP HD-CVI Fisheye camera that offers a panoramic fisheye lens with a 1/2.8 inch CMOS image sensor that is perfect for capturing events from a wide area and from different angles. It has more than 10 dewarping modes which enables you to dewarp the image directly from the DVR instead of having to use the free computer software to dewarp. Comes with a built-in microphone that features broadcast quality audio over coaxial or siamese cable. With Smart IR technology, the camera ensures brightness in a black and white image under limited illumination that adjusts to the intensity of the LEDs to compensate for the distance of an object and to also prevent overexposure.

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.

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 with just one fisheye camera.

Dewarping Mode

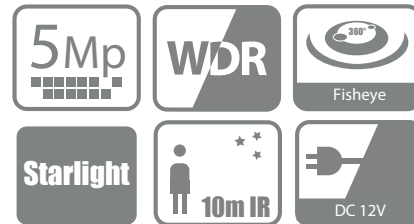
Fisheye dewarping is a function to solve the serious distortion problem of the circular panoramic view and you will use up to 10 dewarping modes for different installations with a recorder or on the web. Every dewarping area is adjustable and optional as you want.

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.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any video loss. It supports up to 700m transmission for 5MP video via coaxial cable, and up to 300m 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.

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.

Protection

Supporting $\pm 30\%$ input voltage tolerance, this 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 outdoor lightning.

Technical Specification

Camera

Image Sensor	1/2.8" 5MP CMOS
Effective Pixels	2592(H)×1944(V),5MP
Scanning System	Progressive
Electronic Shutter Speed	PAL:1/4s~1/100,000s NTSC:1/3s~1/100,000s
Minimum Illumination	0.005Lux/F2.0 (Color), 30IRE,0lux IR on
S/N Ratio	More than 65dB
IR Distance	10m
IR On/Off Control	Auto (ICR)/Color/B/W
IR LEDs	3

Lens

Lens Type	Fixed lens / Fixed iris
Mount Type	Board-in
Focal Length	1.4mm
Max Aperture	F2.0
Angle of View	H: 180°, V:180°
Focus Control	N/A
Close Focus Distance	0.2m(7.87")

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)	28m(92ft)
Observe	63px/m (19px/ft)	12m(37ft)
Recognize	125px/m (38px/ft)	6m(18ft)
Identify	250ppm (76px/ft)	3m(9ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: NA Tilt: NA Rotation: NA
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Video

Resolution	5MP (2592×1944)
Frame Rate	20fps@5MP,25/30fps@4MP
Video Output	1-channel BNC high definition 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	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)
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Interface

Audio	Built-in mic
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Electrical

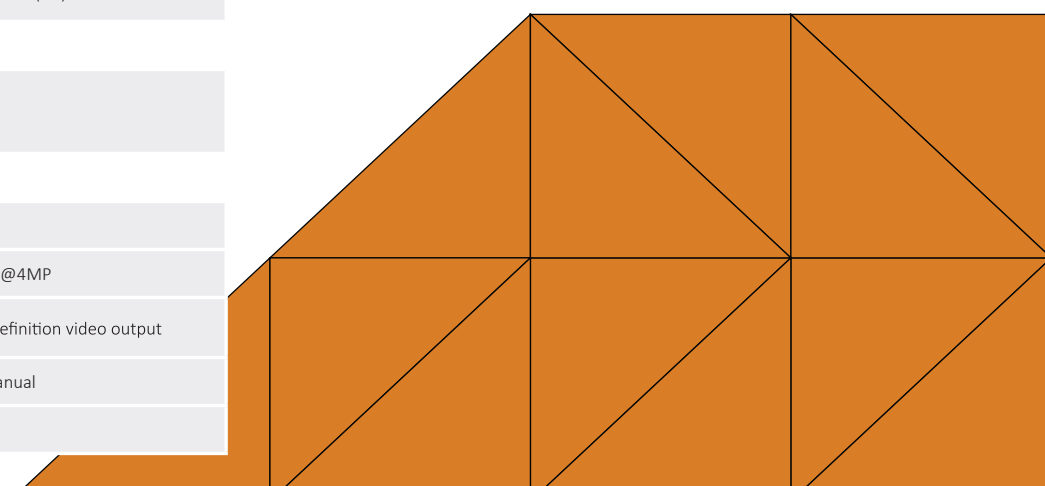
Power Supply	DC12V ±30%
Power Consumption	7.3W (IR ON)

Environmental

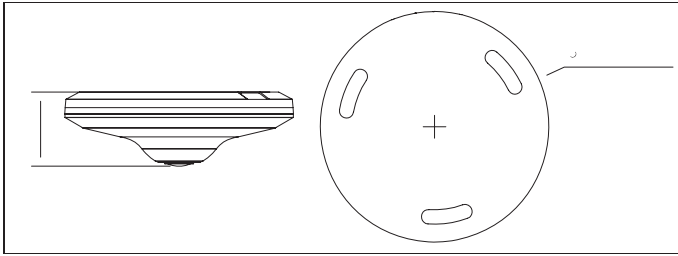
Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 95% RH * Start up should be done at above-30°C (-22°F)
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	N/A

Construction

Casing	Aluminium + Plastic
Dimensions	Φ126.2mm x 40.6mm(Φ4.97"x 1.6")
Net Weight	0.24kg (0.53lb)
Gross Weight	0.42kg (0.93lb)



Dimensions (mm/inch)



Accessories

Optional:



WEW-203W
Wall Mount



LEW-152E
Pole Mount

Ceiling Mount	Wall Mount
	WEW-203W
Pole Mount	
WEW-203W + LEW-152E 	

