# ACV-EF20-4K 2.0

4K HDCVI IR Bullet Camera





# 2.0 Series | ACV-EF20-4K 2.0

- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8mm; 3.6mm; 6mm optional)
- · Max. IR length 20m, Smart IR
- · IP67, 12V±30%DC











### **System Overview**

Experience 4K video surveillance with the simplicity of reusing existing coaxial infrastructure. The 4K HDCVI camera adopts a powerful Acvil ISP and advanced 1/2.7" CMOS sensor, which provides superior high quality images. In addition, the camera features broadcastquality 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.

#### **Functions**

### 4 Signals over 1 Coaxial Cable

HDCVI 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 HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

\*Audio input is available for some models of HDCVI cameras.

#### **Long Distance Transmission**

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

#### **Simplicity**

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI 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.

### **Multiple-formats**

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. This feature

makes the camera compatible with not only XVRs, but also most existing HD/ SD DVRs.\*

\*Use OSD menu to switch HDCVI to other video formats. Use PFM820 UTC Controller to switch CVBS to HDCVI video format

#### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. Supporting ±30% 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.\*

\*Broadcast-quality Audio is available for some models of HDCVI cameras.

## Smart IR

The camera is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Acvil's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

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6 mm

Video

Frame Rate

Resolution

Day/Night

White Balance

Gain Control

BLC

WDR

(350.1 ft)

160 m

(524.9 ft)

AHD: 4K@15fps;

TVI: 4K@15fps; CVBS: 960H

Auto switch by ICR

BLC/HLC/WDR

Auto; manual Auto; manual

DWDR

960H (960 × 576/960 × 480)

(140.1 ft)

(210.0 ft)

CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps;

4K (3840 × 2160); 5M (2592 × 1944); 4M (2560 × 1440);

64 m

(69.9 ft)

32 m

(105.0 ft)

(35.1 ft)

(52.5 ft)

16 m

Technical Specification						Noise Reduction	2D NR
Camera					Smart IR	Yes	
Image Sensor		1/2.7 inch CMOS				Mirror	Off/On
Effective Pixels		3840 (H) × 2160 (V), 4K				Privacy Masking	Off/On (8 area, rectangle)
Scanning System		Progressive				Certifications	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
S/N Ratio		>65dB				Port	OE (0E00930-1+CAN/C3A C22.2 N0.00930-1)
Minimum Illur	mination	0.03Lux/F2.0, 30IRE, 0Lux IR on					Video output choices of CVI/TVI/AHD/CVBS by one
Fill Light Working Distance		20 m (65.2 ft)				Video Output  BNC port	
IR On/Off Control		Auto; manual				Power	
IR LED Number		12				Power Supply	12V ±30% DC
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Power Consumption	Max 3.56W (12V DC, IR on)
						Environment	
Lens						Operating Temperature	-40°C to +55°C (-40°F to +131°F);<95% (non- condensation)
Lens Type		Fixed-focal				Storage Temperature	-40°C to +55°C (-40°F to +131°F);<95% (non- condensation)
Mount Type		M12				Protection Grade	IP67
Focal Length		2.8 mm; 3.6 mm; 6 mm				Structure	
Max. Aperture  Angle of View		F2.0  2.8 mm: 125° x 105° x 56° (diagonal x horizontal x vertical) 3.6 mm: 104° x 87° x 47° (diagonal x horizontal x vertical) 6 mm: 62.4° x 54.7° x 31.3° (diagonal x horizontal x vertical)				Casing	Plastic
						Camera Dimensions	154.3 mm × 69.8 mm × 69.8 mm (6.07" × 2.75" × 2.75")
						Net Weight	0.15 Kg (0.33 lb)
						Gross Weight	0.21 Kg (0.46 lb)
Iris Type		Fixed iris					
Close Focus D	istance	2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.8 m (6.2 ft) 6 mm: 3.6 m (11.8 ft)					
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	2.8 mm	74.7 m (245.1 ft)	29.9 m (98.1 ft)	14.9 m (48.9ft)	7.5 m (24.6 ft)		
	3.6 mm	106.7 m	42.7 m	21.3 m	10.7 m		

# Dimensions (mm [inch])





