

# EZ-HAC-B4A41-VF

4MP HDCVI Manual Vari-focal IR Bullet Camera



# · Max. 25/30fps@4MP

HDCVI

- · HD and SD output switchable
- · 2.7-12mm vari-focal lens
- · Max. IR length 40m, Smart IR
- · IP67, DC12V



#### **System Overview**

Experience 4MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The EZIP series 4MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various vari-focal/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

#### 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 for 4MP HD video tran-smission via coaxial cable, and up to 300m via UTP cable.\*
\*Actual results verified by real-scene testing in Dahua's test laboratory.

#### 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.

#### Smart IR

The camera is designed with IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua'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.

#### **Multi-formats**

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with not only HCVRs but also most end users' existing HD/SD DVRs.

#### Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

#### 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.

With working temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments.

Supporting  $\pm 30\%$  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.

# EZIP Series | EZ-HAC-B4A41-VF

# **Technical Specification**

# Camera

Image Sensor1/2.7" CMOSEffective Pixels2560(H)×144U(V), 4MPScanning SystemProgressiveScanning SystemProgressiveElectronic Shutter SpeedPAL: 1/25~1/100000s NTSC: 1/30~1/100000sMinimum Illumation0.04Lux/F1.7, 30IRE, 0Lux IR onS/N Ratio0.04Lux/F1.7, 30IRE, 0Lux IR onS/N RatioMore than 650IR DistanceUp to 40m (131ft)IR On/Off ControlAuto / ManuetIR LEDs2LensSard-inMount TypeBoard-inFocal Length2.7-12mmMax ApertureF1.7Angle of ViewF1.7Angle of View0.8m(2.6ft)Focus Control0.8m(2.6ft)Close Focus D=x-ce0.8m(2.6ft)DORI distance2.7mmI2mm12mm12mm70m (230ft)12mm70m (230ft)12mm70m (230ft)12mm70m (230ft)12mm176 m (230ft)12mm176 m (230ft)12mm176 m (230ft)12mm176 m (55 ft)12mm176 m (230ft)12mm176 m (55 ft)12mm176 m (230ft)12mm176 m (55 ft)12mm176 m (55 ft)12mm176 m (55 ft)12mm176 m (55 ft)12mm176 m (55 ft)12mm176 m (55 ft)12mm176 m (55 ft)	cumera					
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Electronic Shutter SpeedNTSC: 1/30~1/100000sMinimum Illumination0.04Lux/F1.7, 30IRE, 0Lux IR onS/N RatioMore than 65dBIR DistanceUp to 40m (131ft)IR On/Off ControlAuto / ManualIR LEDs2Lens2Lens TypeVari-focal lens / Fixed irisMount TypeBoard-inFocal Length2.7-12mmMax ApertureF1.7Angle of ViewY126**105**56°(diagonal x horizontal x vertical) T:38**33**19' (diagonal x horizontal x vertical) T:38**33**19' (diagonal x horizontal x vertical)Focus ControlO.8m(2.6ft)DORI distance2.7mm12mm176 m70m35m12mm176 m	Scanning System		Progressive			
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Focal Length     2.7-12mm       Max Aperture     F1.7       Angle of View     W:126°*105°*56°(diagonal x horizontal x vertical) T:38°*33°*19° (diagonal x horizontal x vertical)       Focus Control     Manual       Close Focus Distance     0.8m(2.6ft)       DORI distance     Detect     Observe     Recognize     Identify       DORI distance     2.7mm     60m (197ft)     24m (79ft)     12m (40ft)     6m (20ft)       12mm     176 m     70m     35m     17m	Lens Type		Vari-focal lens / Fixed iris			
Max Aperture     F1.7       Angle of View     K126°*105°*56°(diagonal x horizontal x vertical) T:38°*33°*19° (diagonal x horizontal x vertical)       Focus Control     Manual       Close Focus Distance     0.8m(2.6ft)       DORI distance     Detect     Observe     Recognize     Identify       DORI distance     2.7mm     60m (197ft)     24m (79ft)     12m (40ft)     6m (20ft)       12mm     176 m     70m     35m     17m	Mount Type		Board-in			
Angle of View     W:126°*105°*56°(diagonal x horizontal x vertical) T:38°*33°*19° (diagonal x horizontal x vertical)       Focus Control     Manual       Close Focus Distance     0.8m(2.6ft)       Lens     Detect     Observe     Recognize     Identify       DORI distance     2.7mm     60m (197ft)     24m (79ft)     12m (40ft)     6m (20ft)       12mm     176 m     70m     35m     17m	Focal Length		2.7-12mm			
Angle of View     T:38°*33°*19° (diagonal x horizontal x vertical)       Focus Control     Manual       Close Focus Distance     0.8m(2.6ft)       Lens     Detect     Observe     Recognize     Identify       DORI distance     2.7mm     60m (197ft)     24m (79ft)     12m (40ft)     6m (20ft)       12mm     176 m     70m     35m     17m	Max Aperture		F1.7			
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DORI distance         2.7mm         60m (197ft)         24m (79ft)         12m (40ft)         6m (20ft)           12mm         176 m         70m         35m         17m	Close Focus Distance		0.8m(2.6ft)			
DORI distance         2.7mm         (197ft)         (79ft)         (40ft)         (20ft)           12mm         176 m         70m         35m         17m	DORI distance	Lens	Detect	Observe	Recognize	Identify
12mm		2.7mm				
		12mm				

# Pan / Tilt / Rotation

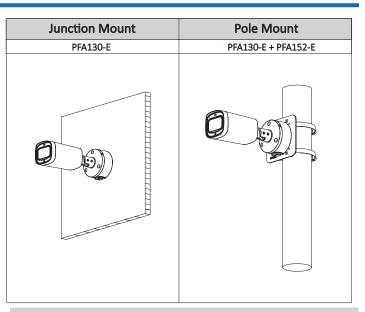
Pan/Tilt/Rotation	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Video					
Resolution	4M (2560 × 1440); 1080P (1920 × 1080); 960H (960 × 576/960 × 480)				
Frame Rate	CVI: PAL:4M@25fps;1080P@25fps NTSC:4M@30fps;1080P@30fps AHD: PAL:4M@25fps; NTSC:4M@30fps; TVI: PAL:4M@25fps; NTSC:4M@30fps; CVBS: 960H;				
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,EN60950-1) 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 ±30%				
Power Consumption	Max 5W (12V DC, IR on)				
Environmental					
Operating Conditions	-30°C $^{\sim}$ +60°C (-22°F $^{\sim}$ +140°F) / Less than 95% RH * Start up should be done at above-30°C (-22°F)				
Storage Conditions	-30°C $\sim$ +60°C (-22°F $\sim$ +140°F) / Less than 95% RH				
Ingress Protection & Vandal Resistance	IP67				
Construction					
Casing	Aluminium				
Dimensions	209.8mm×90.4mm×90.4mm (8.26"×3.56"×3.56")				
Net Weight	0.59kg (1.30lb)				
Gross Weight	0.75kg (1.65lb)				

# EZIP Series | EZ-HAC-B4A41-VF

### **Ordering Information**

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Туре	Part Number	Description			
4MP Camera	EZ-HAC-B4A41P-VF	4MP HDCVI IR Bullet Camera, PAL			
	EZ-HAC-B4A41N-VF	4MP HDCVI IR Bullet Camera, NTSC			
Accessories	PFA130-E	Junction box (For use alone or with PFA152-E pole mount)			
	PFA152-E	Pole mount (For use with PFA130-E junction box)			
	PFM820(Only 1080P and below are available)	UTC Controller			
	PFM321	12V 1A Power Adapter			
	PFM800-4K	Passive Video Balun			
	PFM907	Integrated Mount Teste			



## Dimensions (mm/inch)

# Accessories

Optional:



PFA130-E Junction box



PFM321 12V 1A Power Adapter



PFA152-E Pole mount



PFM800-4K Passive Video Balun



PFM820 (Only 1080P and below are available) UTC controller



PFM907 Integrated Mount Tester

