



4 in 1 Starlight

ZEB-AHF2PB4AL20M-CV

Surveillance
Bullet Camera



User Manual

www.zebronics.com

Dear Customer,

Hello Zebee, please refer to this user manual for optimum usage of **ZEB-AHF2PB4AL20M-CV 4-in-1 Starlight Surveillance** Bullet Camera.

Features

- **ICR (Infrared Cut Removable Filter):** Automatic day/night mode switching for clear images.
- **AGC (Automatic Gain Control) :** Adjusts sensitivity for varying light conditions.
- **BLC (Back Light Compensation) :** Enhances visibility in front of bright backgrounds.
- **AWB (Auto White Balance) :** Ensures natural colors in different lighting.
- **HLC (Highlight Compensation) :** Reduces glare from bright light sources.
- **UTC (Up-the-Coax) :** Control camera settings via the coaxial cable.
- **WDR (Wide Dynamic Range) :** Captures clear images in high contrast scenes.
- **DNR (Digital Noise Reduction) :** Reduces image noise for clearer pictures.
- **DWDR (Digital Wide Dynamic Range) :** Enhances image quality in challenging lighting.
- **AHD / CVI / TVI / CVBS :** Supports four video formats for compatibility.

- **4 IR Array LED** : Enables night vision for low light or darkness.
- **5 Mega Pixels** : High-resolution image sensor.
- **25 Meters IR Range (Max.)** : Maximum infrared illumination distance.
- **Weatherproof** : Suitable for secured outdoor use (Ip66).
- **Progressive Image Sensor** : Provides better image quality.
- **Low Illumination** : Captures clear images in low light.

Specifications

Camera	Image Processor	1/2.7" 2.4MP CMOS Sensor
	Image Sensor	1/4" Progressive Image Sensor
	Electronic Shutter	AUTO/1/50 ~ 1/60-1/50,000sec
	Minimum Illumination	Color : 0.5 Lux F (1.2, 50 IRE, AGC ON)
		B/W : 0.01 Lux F (1.2, 50 IRE, AGC ON)
	Angle of View	3.6 mm: 95° x 81° x 64° (Diagonal x Horizontal x Vertical) 6 mm: 64° x 53° x 41° (Diagonal x Horizontal x Vertical)
Scanning System	Progressive Scan	
Lens	Focus Length	3.6mm
	Mount Type / Lens	M12
	Focus Control	Fixed
	Lens Type	Removable
	Auto Iris	Support
	Lens	5MP, 3.6mm (6mm optional)
	Max Aperture	F1.27
Night Vision	IR Cut Filter	Yes
	Infrared Distance	25 Meters
	IR Status	0.001 ~ 0.25 LUX range
	IR Power On	Auto Control CDS

Camera Features	OSD Support	Yes
	No of IR LEDs	4
	Day/Night	Auto(ICR) / Color
	Noise Reduction	3DNR
	Picture Adjustment	Yes
	WDR	Yes
	White Balance	Auto / Manual
	AGC (Gain Control)	Auto / Manual
	ICR (Infrared Cut Removable Filter)	Auto / Manual
	Back Light Compensation	BLC / HLC / WDR
	Video Compression	H.265 & below
	Weatherproof Standard	IP66 Weather-Proof
	S/N Ratio	50dB
	Reset	Supported
General	Power Consumption	DC12V, 1A
	Operating Temperature	10°C ~ +60°C/ Less than 95%RH
	Weight	300g
	Housing	ABS Plastic
	Dimension (W x D x H)	7.2 x 18.4 x 7 cm
	Country of Origin	India

Getting Started

Unpack your camera and ensure all components are present.

- **Camera Placement:** Decide on the installation location considering visibility, temperature, stability, and angle.
- **Cable Connection:** Connect the camera to your monitor or recording device using the appropriate cables.
- **Power Supply:** Power the camera with a

DC12V power supply (matching the camera's requirements) by connecting it to the camera's power input.

- **Positioning:** Adjust the camera's angle and secure it in place using the mounting screws.
- **Testing:** Verify camera functionality by checking the live feed on your monitor or recording device.

Installation

Follow the provided instructions to install the camera securely, connect cables, and position it as needed.

- **Mounting:** Securely mount the camera on a stable surface or bracket using the included mounting screws. Ensure it has a clear line of sight to the area you want to monitor.
- **Positioning:** Adjust the camera's angle to achieve the desired field of view. Tighten the mounting screws to lock it in place.
- **Cable Routing:** Carefully route the cables, keeping them tidy and out of the way. Use cable clips or ties to secure the cables to prevent damage or tripping hazards.
- **Weatherproofing (Outdoor Installation):**

If installing the camera outdoors, ensure it is protected from the elements. Consider using weatherproof enclosures or covers to shield the camera and cable connections.

- **Connecting to Power:** Connect the DC12V power supply to the camera's power input. Ensure the power supply is properly connected to a stable power source.
- **Video Connection:** Connect the camera's video output to DVR using the BNC cables.

