



**4 in 1 CCTV** | Surveillance  
ZEB-AHF2PB12L20M | Bullet Camera



## User Manual

[www.zebronics.com](http://www.zebronics.com)

## Dear Customer,

Hello Zebee, please refer to this user manual for optimum usage of **ZEB-AHF2PB12L20M** 4 in 1 CCTV 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	1/50~ 1/60 to 1/100,000 seconds
	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	112°
Lens	Scanning System	Progressive Scan
	Focus Length	3.6mm
	Mount Type / Lens	M12
	Focus Control	Fixed
	Lens Type	Removable
	Auto Iris	Support
	Lens	3.6mm (6mm optional)
	Max Aperture	F1.27
Night Vision	IR Cut Filter	Yes
	Infrared Distance	20 - 25M
	IR Status	0.001 ~ 0.25 LUX range
	IR Power On	Auto Control CDS
Camera Features	OSD Support	Yes
	No of IR LEDs	12
	Day/Night	Auto(ICR) / Color / B/W
	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, 500mA
	Operating Temperature	-10°C ~ +60°C/ Less than 95%RH
	Weight	149g
	Housing	ABS Plastic
	Dimension (W x D x H)	7 x 15 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.

