



Surveillance Dome Camera  
**ZEB AHD PDBW24**



## User Manual

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

## Dear Customer,

Hello Zebee, please refer to this user manual for optimum usage of **ZEB-AHDPDBW24** 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.
- **24 Blue IR LED:** Enables night vision for low light or darkness.

- **5 MPL** : High-resolution image sensor.
- **20 Meters IR Range (Max.)** : Maximum infrared illumination distance.
- **CMOS Image Sensor** : Provides better image quality.
- **Low Illumination** : Captures clear images in low light.

## Specifications

Camera	Image Processor	1/2.9" 2.4MP HD CMOS Sensor
	Minimum Illumination	0.1 LUX (Colour/day) 0 LUX/F1.2 (IR ON)
	Image Sensor	1/3" CMOS Sensor
	Shutter Speed	1/50(1/60) to 1/100,000 seconds
	Angle of View	3.6 mm: 100° x 84° x 45° (Diagonal x Horizontal x Vertical)
	Scanning System	Progressive Scan
Lens	Focus Length	3.6 mm
	Mount Type / Lens	M12
	Focus Control	Fixed
	Lens Type	Removable
	Auto Iris	Support
	Lens	3.6mm
Night Vision	Max Aperture	F2.0
	IR Cut Filter	Yes
	IR Range	20M
Camera Features	IR Power On	Auto Control
	OSD Support	Yes
	No of IR LEDs	24 Blue IR LED
	Day/Night	Support
	Noise Reduction	3D NR
	Picture Adjustment	Yes
	WDR	Yes
	White Balance	Automatic
	AGC (Gain Control)	Auto / Manual
	ICR (Infrared Cut Removable Filter)	Auto(ICR)/Color/B/W
	Back Light Compensation	BLC / HLC / WDR
	Video output	CVI: 2.4MP (1920x1080p) @25/30fps; 720p@25/30fps; AHD: 2.4MP (1920x1080p) @25/30fps; 720p@25/30fps TVI: 2.4MP (1920x1080p) @25/30fps; 720p@25/30fps CVBS: 960H(PAL/NTSC)
	Video compression	H.265
	S/N Ratio	>50dB
Reset	Yes	
General	Power Consumption	DC12V±10%, 500mA
	Operating Temperature	10°C ~ +60°C/ Less than 95%RH
	Weight	150g
	Body type	ABS Plastic
	Dimension (Dia x H)	9 x 6.5 cm
	Country of Origin	India

## Connectors



UTC Button



DC Power Input



BNC Connector

## 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.

*Note: Controlling the CCTV camera OSD menu is subjective depending on the DVR / XVR used. For further assistance kindly contact our toll free no. 044 4000 0004*

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