



Surveillance Bullet Camera

**ZEB** **IPPBSL5**



## User Manual

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

## Dear Customer,

Hello Zebee, please refer to this user manual for optimum usage of **ZEB-IPPBSL5** 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.
- **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.
- **4 IR Array LED :** Enables night vision for low light or darkness.
- **5 Mega Pixels :** High-resolution image sensor.
- **20 Meters IR Range (Max.) :** Maximum infrared illumination distance.

- **Weatherproof**: Suitable for secured outdoor use (IP66).
- **CMOS Image Sensor**: Provides better image quality.
- **Low Illumination**: Captures clear images in low light.

## Specifications

Camera	Image Processor	1/2.7" CMOS Sensor
	Minimum Illumination	0.03 Lux@F2.0 (Color, 30 IRE) 0.003 Lux@F2.0 (B/W, 30 IRE) 0 Lux (IR on)
	Image Sensor	1/2.9" CMOS Sensor
	Shutter Speed	1/50(1/60) to 1/100,000 seconds
	Angle of View	3.6mm: Horizontal: 92°; Vertical: 48°; Diagonal: 109°
	Scanning System	Progressive Scan
Lens	Focus Length	3.6 mm (Fixed)
	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
Night Vision	IR Range	20-25M
	IR Power On	Auto Control
Camera Features	OSD Support	No
	No of IR LEDs	4 Array IR LED
	Day/Night	Support
	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 / DWDR
	Video output	Main Stream : 2880 × 1620 (1 fps - 20 fps) 2688 × 1520 (1 fps - 25/30 fps) Sub Stream : 704 × 576 (1 fps - 25 fps) 704 × 480 (1 fps - 30 fps)
	Video compression	H.265
	Weatherproof Standard	IP66 Weather-Proof
	S/N Ratio	>120dB
	Reset	Yes
General	Power Consumption	DC12V±10%, 500mA to 1A / 7.5W to 10W POE
	Operating Temperature	10°C ~ +60°C/ Less than 95%RH
	Weight	200g
	Body type	ABS Plastic
	Dimension (Dia x H)	7.5 x 17.88 x 6.9 cm
	Country of Origin	India

**Note** : \*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.

## 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 or if the network connection is via POE switch, no external power source needed.
- **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.

If the network connection is via POE switch, no external power source needed.

## **Configuring the IP camera**

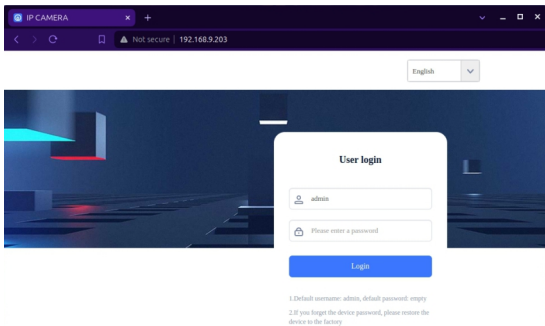
- **Searching camera IP :**

By default, the camera attains its IP by DHCP. So IP assigned to the camera can be easily obtained from the router.

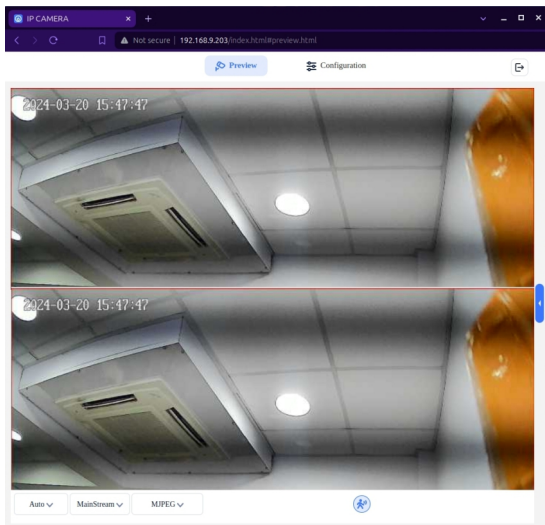
- **Logging in to the camera's web page :**

Enter the IP camera's IP address in the web browser of the computer which is connected to the same network as the IP camera. The following web page will pop-up

For the first time login - no password will be required.



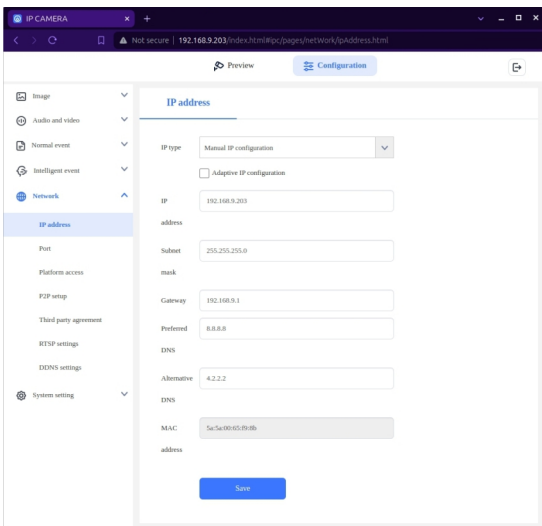
After successful login, the web page will resemble like this.



- **Assigning Static IP to Camera :**

To assign the static IP address, follow these steps:

1. After logging in, navigate to Configuration → Network → IP address. This will display sub menus.
2. Click on the “IP Type” and select “Manual IP Configuration”.
3. Ensure that the checkbox for “Adaptive IP Configuration” is unchecked.
4. Enter the Static IP, Subnet Mask, and Gateway Details.
5. Click on “Save” to apply the changes.



- **Main Stream and Sub Stream resolution:**

To configure the main stream and Sub stream resolution, Login to the camera web page, Click on Configuration → Audio and video → Video. Now select the mainstream / substream and configure the desired resolution.

