

# EZA2880 eZ.HD Series

## 8MP Dual Power IP66 IR Bullet Camera

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### *User's Manual*



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## 1. Introduction

Equipped with a 8MP CMOS sensor, the EZA2880 deliver 8MP image quality. The model provides motorized 3.6-11mm lens with ICR. Featured with True Wide Dynamic Range (T-WDR), the camera can provide clear images even under backlight circumstances where intensity of illumination can vary excessively. The EZA2880 supports dual power (12VDC / 24VAC, depends on model) and supports both NTSC and PAL scanning systems (auto detection).

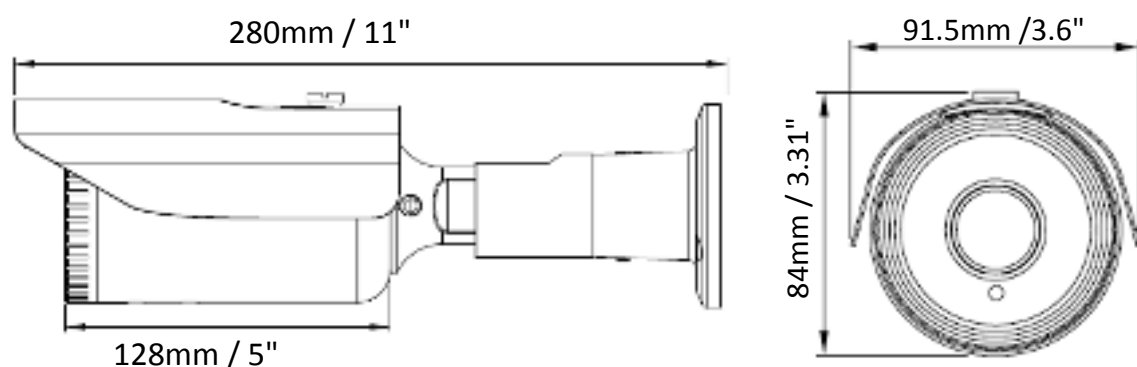
### 1.1 Packing List

- Camera x 1
- Mounting Sticker x 1
- L-Type Wrench x 1
- Screw & Screw Anchor x 3
- User Manual x 1

### 1.2 Features

- 8MP CMOS sensor, delivering amazing high sensitivity
- Motorized 3.6-11mm lens with ICR to capture the desired field of view
- Extended IR range of up to 40m / 131ft. with 4 LEDs (depends on scene IR reflectivity)
- T-WDR to improve the visibility under high contrast scene
- 3-Axis rotation design allows wall or ceiling mounting
- IP66-rated with metal housing
- Supports dual power (12VDC / 24VAC, depends on model)
- Supports UTC function: Control camera OSD settings directly from DVR end

### 1.3 Dimensions



## 1.4 Optional Accessory

### BA-E320



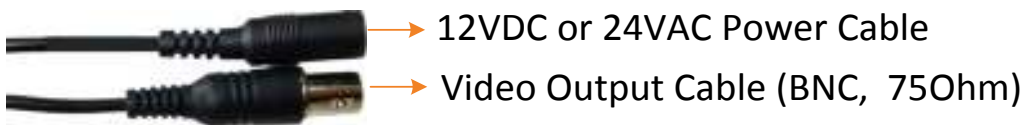
Color: White

Size ( $\Phi$  x H): 138 x 54mm / 5.43" x 2.16"

Weight: 700g / 1.87

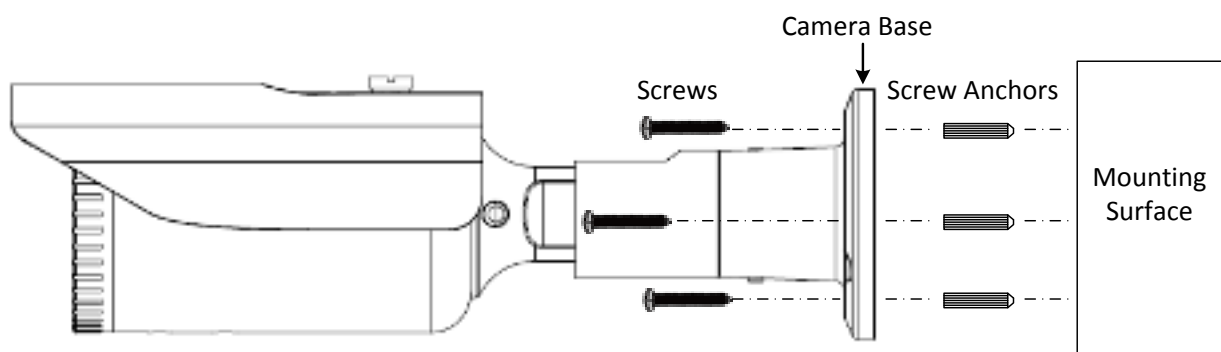
Material: Metal

## 1.5 Cable Description

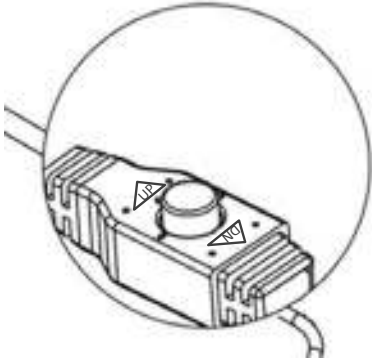


## 2. Installation

1. Stick the supplied **Mounting Sticker** to the surface to mark the 3 screw positions. Drill 3 holes on the surface and insert the supplied 3 **Screw Anchors** into the screw holes. If you want to run the cable through the surface, drill a hole within the 3 screw area.
2. To mount the camera to the surface, screw the **Camera Base** to the surface using the supplied 3 **Screws**.



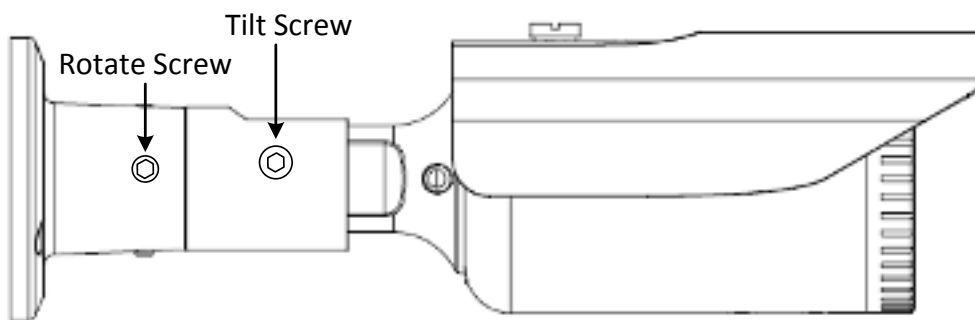
3. Connect the **Power Cable** to a 12VDC / 24VAC power source. Connect the **Video Output Cable** to a monitor or DVR.
4. You can use the **Joystick** on the cable to configure camera OSD settings. Remove the Protection Cap from the Joystick before using it.



#### Configuring OSD Settings:

- Push the Joystick up / down to select among menu items.
- Push the Joystick left / right to adjust the level of the selected item.
- Press the Joystick to enter the submenu or exit the OSD Setup Menu.

5. You can optionally adjust camera angles. To do so, loosen the **Tilt Screw** or **Rotate Screw** on the bracket using the supplied **L-Type Wrench** to adjust camera angles. After adjusting camera angles, tightly screw back the Tilt/Rotate screws.



### 3. Configuration in the OSD Menu

| No | Main      | Sub Menu   | Sub Menu / Function |                                        |                                                                                   |  |
|----|-----------|------------|---------------------|----------------------------------------|-----------------------------------------------------------------------------------|--|
| 1  | Motorized | AF Mode    | One Shot, Manual    |                                        |                                                                                   |  |
|    |           | D&N Filter | Sync On, Sync Off   |                                        |                                                                                   |  |
|    |           | Initial    | On                  |                                        |                                                                                   |  |
| 2  | Exposure  | Brightness | 0-20                |                                        |                                                                                   |  |
|    |           | Shutter    | Auto                | Mode                                   | Normal / Deblur                                                                   |  |
|    |           |            | Manual              | Speed                                  | 1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/15000, 1/30000 |  |
|    |           |            | Flicker             |                                        |                                                                                   |  |
|    |           | Sens-Up    | Not supported       |                                        |                                                                                   |  |
|    |           | AGC        | 0-10                |                                        |                                                                                   |  |
| 3  | Backlight | HLC        | Level               | 0-20                                   |                                                                                   |  |
|    |           |            | Color               | YEL, CYN, GRN, MAG, RED, BLU, BLK, WHT |                                                                                   |  |
|    |           | BLC        | H-POS               | 0-38                                   |                                                                                   |  |
|    |           |            | V-POS               | 0-35                                   |                                                                                   |  |
|    |           |            | H-SIZE              | 0-38                                   |                                                                                   |  |
|    |           |            | V-SIZE              | 0-35                                   |                                                                                   |  |
|    |           | WDR        | WDR Mode            | Line                                   |                                                                                   |  |
|    |           |            | Box                 | Window Zone                            | 0-3                                                                               |  |
|    |           |            |                     | Window Use                             | On, Off                                                                           |  |
|    |           |            |                     | H-POS                                  | 0-3856                                                                            |  |
|    |           |            |                     | V-POS                                  | 0-2176                                                                            |  |
|    |           |            |                     | H-SIZE                                 | 0-3856                                                                            |  |
|    |           |            |                     | V-SIZE                                 | 0-2176                                                                            |  |
|    |           |            | Polygon             | Window Zone                            | 0-3                                                                               |  |
|    |           |            |                     | Window Use                             | On, Off                                                                           |  |
|    |           |            |                     | POS0-X                                 | 0-935                                                                             |  |
|    |           |            |                     | POS0-Y                                 | 0-361                                                                             |  |
|    |           |            |                     | POS1-X                                 | 0-935                                                                             |  |
|    |           |            |                     | POS1-Y                                 | 0-361                                                                             |  |
|    |           |            |                     | POS2-X                                 | 0-935                                                                             |  |
|    |           |            |                     | POS2-Y                                 | 0-361                                                                             |  |
|    |           |            |                     | POS3-X                                 | 0-935                                                                             |  |
|    |           |            |                     | POS3-Y                                 | 0-361                                                                             |  |
|    |           |            | Off                 |                                        |                                                                                   |  |
|    |           | Weight     | High, Middle, Low   |                                        |                                                                                   |  |
|    |           | Off        |                     |                                        |                                                                                   |  |
| 4  | Day/Night | Mode       | Auto                | IR LED                                 | Adaptive, Off                                                                     |  |
|    |           |            |                     | Anti-Sat.                              | 0-20                                                                              |  |
|    |           |            |                     | D>N Thres                              | 0-20                                                                              |  |
|    |           |            |                     | N>D Thres                              | 0-20                                                                              |  |
|    |           |            |                     | Delay                                  | High, Middle, Low                                                                 |  |
|    |           |            | Color               |                                        |                                                                                   |  |
|    |           | B/W        | IR LED              | Adaptive, Off                          |                                                                                   |  |
|    |           |            | Anti-Sat.           | 0-20                                   |                                                                                   |  |

|            |        |                        |                        |           |                   |                   |     |
|------------|--------|------------------------|------------------------|-----------|-------------------|-------------------|-----|
|            |        |                        |                        | D>N Thres | 0-20              |                   |     |
|            |        |                        |                        | N>D Thres | 0-20              |                   |     |
|            |        |                        |                        | Delay     | High, Middle, Low |                   |     |
|            |        |                        |                        | Extern    | IR LED            | Adaptive, Off     |     |
|            |        |                        |                        |           | Anti-Sat.         | 0-20              |     |
|            |        |                        |                        |           | Extern SW         | High, Low         |     |
|            |        |                        |                        |           | D>N Thres         | 0-20              |     |
|            |        |                        |                        |           | N>D Thres         | 0-20              |     |
|            |        |                        |                        |           | Delay             | High, Middle, Low |     |
|            |        |                        |                        |           | 5                 | Color             | AWB |
| Autoext    |        |                        |                        |           |                   |                   |     |
| Preset     |        |                        |                        |           |                   |                   |     |
| Manual     | C-Temp | 3000K, 5000K, 8000K    |                        |           |                   |                   |     |
|            | R-Gain | 0-20                   |                        |           |                   |                   |     |
|            | B-Gain | 0-20                   |                        |           |                   |                   |     |
| Color Gain | 0-20   |                        |                        |           |                   |                   |     |
| 6          | DNR    | High, Middle, Low, Off |                        |           |                   |                   |     |
| 7          | Image  | Sharpness              | 0-10                   |           |                   |                   |     |
|            |        | Gamma                  | 0.45, 0.55, 0.65, 0.75 |           |                   |                   |     |
|            |        | Mirror                 | On, Off                |           |                   |                   |     |
|            |        | Flip                   | On, Off                |           |                   |                   |     |
|            |        | D-Zoom                 | Not supported          |           |                   |                   |     |
|            |        | ACE                    | High, Middle, Low      |           |                   |                   |     |
|            |        | Defog                  | On                     | Mode      | Auto, Manual      |                   |     |
|            |        |                        |                        | Level     | High, Middle, Low |                   |     |
|            |        | Off                    |                        |           |                   |                   |     |
|            |        | Shading                | On                     | Weight    | 0%-100%           |                   |     |
|            |        |                        | Off                    |           |                   |                   |     |
|            |        | Box                    | On                     | Zone Num  | 0-15              |                   |     |
|            |        |                        |                        | Zone Disp | On, Off           |                   |     |
|            |        |                        |                        | H-POS     | 0-120             |                   |     |
|            |        |                        |                        | V-POS     | 0-68              |                   |     |
|            |        |                        |                        | H-Size    | 0-80              |                   |     |
|            |        |                        |                        | V-Size    | 0-61              |                   |     |
|            |        |                        |                        | Y Level   | 0-20              |                   |     |
|            |        |                        |                        | CB Level  | 0-20              |                   |     |
|            |        |                        |                        | CR Level  | 0-20              |                   |     |
|            |        |                        |                        | Trans     | 0-3               |                   |     |
|            |        | Off                    |                        |           |                   |                   |     |
|            |        | Polygon                | On                     | Zone Num  | 0-7               |                   |     |
|            |        |                        |                        | Zone Disp | On, Off           |                   |     |
|            |        |                        |                        | POS0-X    | 0-240             |                   |     |
|            |        |                        |                        | POS0-Y    | 0-136             |                   |     |
|            |        |                        |                        | POS1-X    | 0-240             |                   |     |
|            |        |                        |                        | POS1-Y    | 0-136             |                   |     |
|            |        |                        |                        | POS2-X    | 0-240             |                   |     |
|            |        |                        |                        | POS2-Y    | 0-136             |                   |     |
|            |        |                        |                        | POS3-X    | 0-240             |                   |     |
|            |        |                        |                        | POS3-Y    | 0-136             |                   |     |
|            |        | Y Level                | 0-20                   |           |                   |                   |     |
|            |        | CB Level               | 0-20                   |           |                   |                   |     |

|   |        |             |                                      |                                  |          |      |  |  |
|---|--------|-------------|--------------------------------------|----------------------------------|----------|------|--|--|
|   |        |             |                                      |                                  | CR Level | 0-20 |  |  |
|   |        |             |                                      |                                  | Trans    | 0-3  |  |  |
| 8 | Motion | On          | Det Window                           | Off                              |          |      |  |  |
|   |        |             |                                      | Window Use                       | 0-3      |      |  |  |
|   |        |             |                                      | Window Zone                      | On, Off  |      |  |  |
|   |        |             |                                      | Det H-POS                        | 0-96     |      |  |  |
|   |        |             |                                      | Det V-POS                        | 0-56     |      |  |  |
|   |        |             |                                      | Det H-Size                       | 0-96     |      |  |  |
|   |        |             | Det V-Size                           | 0-56                             |          |      |  |  |
|   |        |             | Sensitivity                          | 0-10                             |          |      |  |  |
|   |        |             | Motion OSD                           | On, Off                          |          |      |  |  |
|   |        |             | Text Alarm                           | On, Off                          |          |      |  |  |
|   |        |             | Signal Out                           | On, Off                          |          |      |  |  |
|   |        |             | Off                                  |                                  |          |      |  |  |
| 9 | System | Output      | Frame Rate                           | 4K/15fps, 4MP/30fps, 1080p/30fps |          |      |  |  |
|   |        |             | Freq                                 | 60Hz (Auto Detection)            |          |      |  |  |
|   |        |             | SDI Mode                             | Not supported                    |          |      |  |  |
|   |        |             | SDI UCC Stop                         | Not supported                    |          |      |  |  |
|   |        |             | Analog Mode                          | AHD, TVI, CVI, CVBS              |          |      |  |  |
|   |        |             | Confirm                              | Yes                              |          |      |  |  |
|   |        |             | Return                               |                                  |          |      |  |  |
|   |        | Image Range | Full                                 |                                  |          |      |  |  |
|   |        |             | Comp                                 |                                  |          |      |  |  |
|   |        |             | User                                 | Offset                           | 0-32     |      |  |  |
|   |        | Color Space | HD-CbCr, SD-CbCr, YUV                |                                  |          |      |  |  |
|   |        | Audio Mic   | Not supported                        |                                  |          |      |  |  |
|   |        | Color Bar   | On, Off                              |                                  |          |      |  |  |
|   |        | Language    | ENG, CHN, CHN(S), JPN, KOR, POR, ESP |                                  |          |      |  |  |
|   |        | Cam Title   | Left-Down                            |                                  |          |      |  |  |
|   |        |             | Right-Up                             |                                  |          |      |  |  |
|   |        |             | Off                                  |                                  |          |      |  |  |
|   |        | Reset       | On                                   |                                  |          |      |  |  |
|   |        | 10          | Exit                                 |                                  |          |      |  |  |