

# EHA1280 eZ.HD Series

## 1080p Dual Power FHD IP66 IR Dome Camera

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*User's Manual*



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## 1. Introduction

Equipped with a 1080p Sony STARVIS CMOS sensor, the EHA1280 deliver 1080p full HD image quality. The model provides 2.8-12mm lens with ICR. Featured with Digital Wide Dynamic Range (D-WDR), the camera can provide clear images even under backlight circumstances where intensity of illumination can vary excessively. The EHA1280 supports dual power (12VDC / 24VAC) and supports both NTSC and PAL scanning systems.

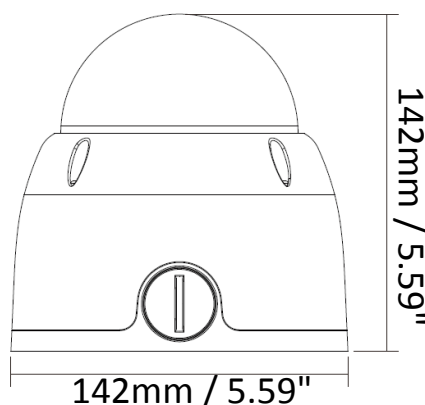
### 1.1 Packing List

- Camera x 1
- Mounting Sticker x 1
- L-Type Wrench x 1
- Screw & Screw Anchor x 4
- Desiccant Bag x 1
- User Manual x 1




### 1.2 Features



- 1080p Sony STARVIS CMOS sensor, delivering amazing high sensitivity
- Varifocal 2.8-12mm with ICR to capture the desired field of view
- Extended IR range of up to 30m / 98ft. with 4 LEDs (depends on scene IR reflectivity)
- D-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)
- Supports UTC function: Control camera OSD settings directly from DVR end

### 1.3 Dimensions

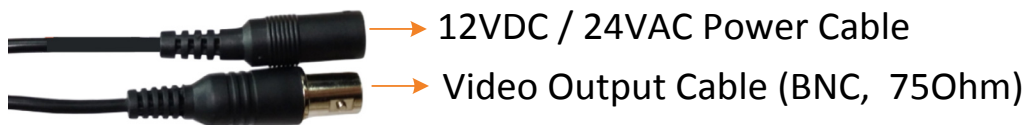


## 1.4 Optional Accessory

| Type         | Wall Mount Bracket  |   |   |
|--------------|---|---|---|
| Image        |  |  |  |
| Model        | BA-EB45   | BA-EB28   | BA-EB18   |
| Color        | White / Metal   | White / Metal   | White / Metal   |
| Size (WxDxH) | 245x160x163mm<br>9.65"x6.3"x6.42"   | 140x136x233mm<br>5.51"x5.35"x9.17"  | 120x207x134mm<br>4.72"x8.15"x5.28"  |
| Weight       | 2.1kg / 4.63lb  | 2.1kg / 4.63lb  | 1.1kg / 2.43lb  |

| Type         | Ceiling Mount Bracket   |   |
|--------------|---|---|
| Image        |  |  |
| Model        | BA-EB3A   | BA-EB3B   |
| Color        | White / Metal   | White / Metal   |
| Size (WxDxH) | 136x136x243mm<br>5.35"x5.35"x9.57"  | 136x136x443mm<br>5.35"x5.35"x17.44"   |
| Weight       | 2.4kg / 5.29lb  | 3.6kg / 7.94lb  |

## 1.5 Cable Description

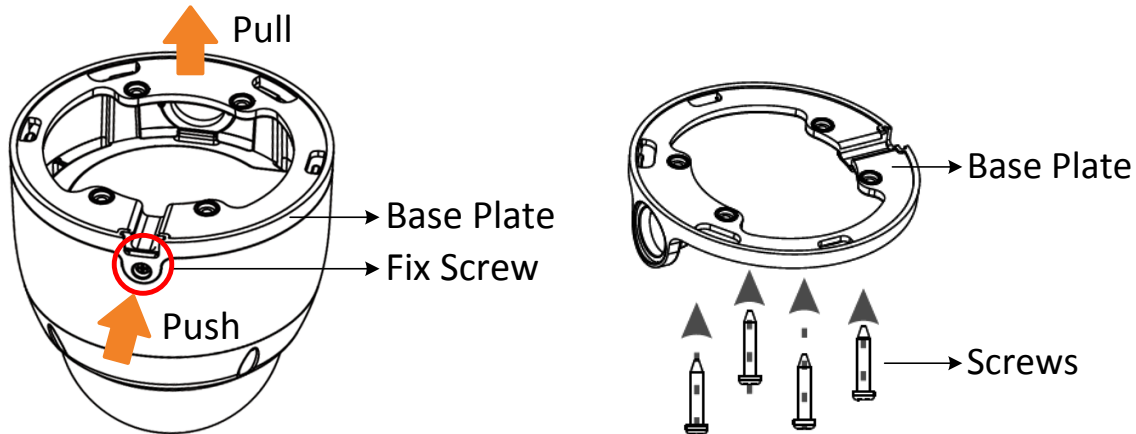


## 2. Installation

1. Stick the supplied **Mounting Sticker** to the surface to mark the 4 screw positions. Drill four holes on the surface and insert the supplied 4 **Screw Anchors** into the screw holes. If you want to run the cable through the surface, drill a hole within the 4 screw area.

2. To mount the camera to the surface:

- a. Remove the **Base Plate** from the camera. To do so, 1) Remove the **Fix Screw** 2) Slightly push the **Base Plate** backward from the Fix Screw side and then pull out the Base Plate. Screw the **Base Plate** to the surface using the supplied 4 **Screws**.



- b. Open the Camera Cover to remove the old desiccant bag from the Camera Body and stick the supplied **Desiccant Bag** inside the Camera Body. It's highly recommended to replace the desiccant bag every time when you open the Camera Cover.

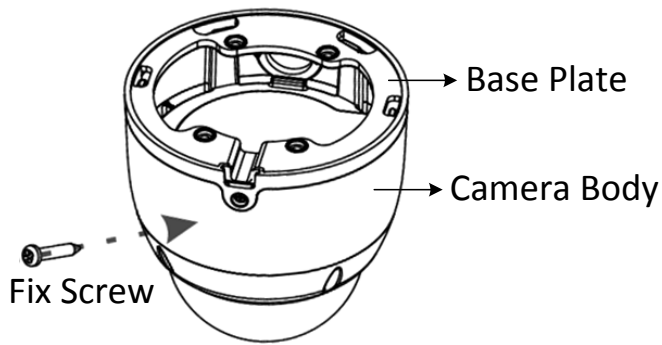


**Note:** Please screw back the Camera Cover immediately in case of reducing the absorption capacity of the desiccant bag inside the camera body.

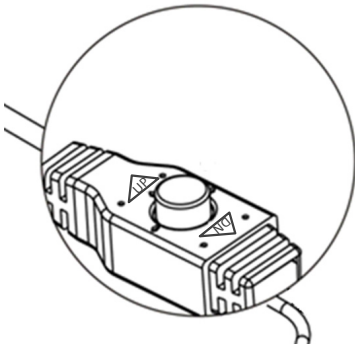
- c. For the first time installation, check whether the camera is properly focused. If not, you can optionally adjust camera zoom and focus by adjusting the Zoom Screw or Focus Screw using a slotted screwdriver.



d. Attach the **Camera Body** to the **Base Plate**. Screw back the **Fix Screw**.



3. Connect the **Power Cable** to a 12VDC 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 or switch to different video formats. Remove the Protection Cap from the Joystick before using it.



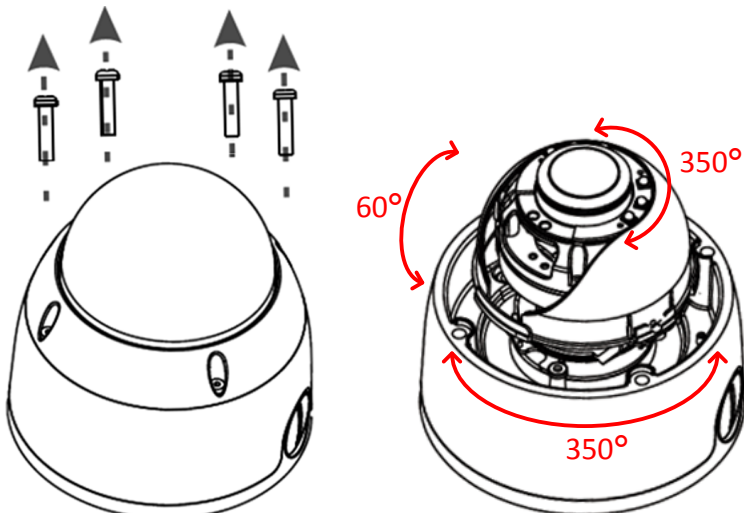
#### Switching Video Format:

- Push the joystick up for 5 sec. to switch to AHD.
- Push the joystick right for 5 sec. to switch to TVI.
- Push the joystick down for 5 sec. to switch to CVI.
- Push the joystick left for 5 sec. to switch to CVBS.

#### 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 the camera angles. To do so, unscrew the 4 cover screws using the supplied **L-Type Wrench** and then remove the cover. Adjust the camera angles (Tilt: 60°, Pan: 350°, Rotate: 350°). After adjusting camera angles, screw back the camera cover.



### 3. Configuration in the OSD Menu

You can configure camera settings in the OSD menu from DVR end.

| No     | Main                | Sub Menu   | Sub Menu / Function       |   |   |                     |
|--------|---------------------|------------|---------------------------|---|---|---------------------|
| 1      | Iris                | ELC        |                           |   |   |                     |
|        |                     | Off        |                           |   |   |                     |
| 2      | Focus Adj.          | On         | Focus Area                | Wide / Narrow / Middle                                    |   |                     |
|        |                     |            | DISP Tone                 | 0-2   |   |                     |
|        |                     |            | DISP H_POS                | 0-60  |   |                     |
|        |                     |            | DISP V_POS                | 0-34  |   |                     |
|        |                     |            | DISP H_Size               | 0-60  |   |                     |
|        |                     |            | DISP V_Size               | 0-34  |   |                     |
| 3      | Exposure            | Brightness | 0-20                      |   |   |                     |
|        |                     | Shutter    | Auto                      | Normal / Deblur   |   |                     |
|        |                     |            | Manual                    | Speed   | 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/15000, 1/30000 |                     |
|        |                     |            | Flicker                   |   |   |                     |
|        |                     | Sens-Up    | Off, x2, x4, x8, x16, x32 |   |   |                     |
|        |                     | AGC        | 0-10                      |   |   |                     |
| 4      | Backlight           | Off        |                           |   |   |                     |
|        |                     | HLC        | Mode                      | Night Only / All Day                                      |   |                     |
|        |                     |            | Level                     | 0-20  |   |                     |
|        |                     |            | Color                     | BLK / CUSTOMIZE / WHT / YEL / CYN / GRN / MAG / RED / BLU |   |                     |
|        |                     | BLC        | H-POS                     | 0-20  |   |                     |
|        |                     |            | V-POS                     | 0-20  |   |                     |
|        |                     |            | H-Size                    | 0-20  |   |                     |
|        |                     |            | V-Size                    | 0-20  |   |                     |
|        |                     | WDR        | Mode                      | Normal  |   |                     |
|        |                     |            |                           | ROI   | Window Zone   | 0-3                 |
|        |                     |            |                           |   | Window Use  | On / Off            |
|        |                     |            |                           |   | H-POS   | 0-1920              |
|        |                     |            |                           |   | V-POS   | 0-1080              |
| H-Size | 0-1920              |            |                           |   |   |                     |
| V-Size | 0-1080              |            |                           |   |   |                     |
| Weight | Middle / High / Low |            |                           |   |   |                     |
| 5      | Day&Night           | Auto       | Mode                      | Auto  | IR LED  | On / Off            |
|        |                     |            |                           |   | Anti-Sat.   | 0-20                |
|        |                     |            |                           |   | LED Power   | Dimming             |
|        |                     |            |                           |   | AGC Thres   | 0-20                |
|        |                     |            |                           |   | AGC Margin  | 0-20                |
|        |                     |            |                           | Color   | Delay   | Middle / High / Low |
|        |                     |            |                           |   | White LED   | On / Off            |
|        |                     |            |                           |   | Anti-Sat.   | 0-20                |
|        |                     |            |                           |   | LED Power   | Dimming             |
|        |                     |            |                           |   | AGC Thres   | 0-20                |
|        |                     |            |                           | B&W   | AGC Margin  | 0-20                |
|        |                     |            |                           |   | Delay   | Middle / High / Low |
|        |                     |            |                           |   | IR LED  | On / Off            |

|          |               |                           |                           |             |                       |                     |  |
|----------|---------------|---------------------------|---------------------------|-------------|-----------------------|---------------------|--|
|          |               |                           |                           |             | Anti-Sat.             | 0-20                |  |
|          |               |                           |                           |             | LED Power             | Dimming             |  |
|          |               |                           |                           |             | AGC Thres             | 0-20                |  |
|          |               |                           |                           |             | AGC Margin            | 0-20                |  |
|          |               |                           |                           |             | Delay                 | Middle / High / Low |  |
|          |               |                           |                           |             | IR LED                | On / Off            |  |
|          |               |                           |                           | Extern      | Anti-Sat.             | 0-20                |  |
|          |               |                           |                           |             | LED Power             | Dimming             |  |
|          |               |                           |                           |             | Extern SW             | High / Low          |  |
|          |               |                           |                           |             | D > N Thres           | 0-20                |  |
|          |               |                           |                           |             | N > D Thres           | 0-20                |  |
|          |               |                           |                           |             | Delay                 | Middle / High / Low |  |
| 6        | Color         | AWB                       | Auto                      |             |                       |                     |  |
|          |               |                           | Autoext                   |             |                       |                     |  |
|          |               |                           | Preset                    |             |                       |                     |  |
|          |               |                           | Manual                    | C-Temp      | 3000K / 5000K / 8000K |                     |  |
|          |               | R-Gain                    |                           | 0-20        |                       |                     |  |
| B-Gain   | 0-20          |                           |                           |             |                       |                     |  |
|          |               | Color Gain                | 0-20                      |             |                       |                     |  |
| 7        | DNR           | Middle / High / Off / Low |                           |             |                       |                     |  |
| 8        | Image         | Sharpness                 | CVBS                      | 0-10        |                       |                     |  |
|          |               |                           | CVI                       | 0-10        |                       |                     |  |
|          |               |                           | TVI                       | 0-10        |                       |                     |  |
|          |               |                           | AHD                       | 0-10        |                       |                     |  |
|          |               | Gamma                     | 0.45 / 0.55 / 0.65 / 0.75 |             |                       |                     |  |
|          |               | Mirror                    | On / Off                  |             |                       |                     |  |
|          |               | Flip                      | On / Off                  |             |                       |                     |  |
|          |               | ACE                       | Off / Low / Middle / High |             |                       |                     |  |
|          |               | Defog                     | Off                       |             |                       |                     |  |
|          |               |                           | On                        | Mode        | Manual / Auto         |                     |  |
|          |               |                           |                           | Level       | Low / Middle / High   |                     |  |
|          |               | Privacy                   | Off                       |             |                       |                     |  |
|          |               |                           | On                        | Zone Num    | 0-15                  |                     |  |
|          |               |                           |                           | Zone DISP   | On / Off              |                     |  |
|          |               |                           |                           | H-POS       | 0-60                  |                     |  |
|          |               |                           |                           | V-POS       | 0-34                  |                     |  |
|          |               |                           |                           | H-Size      | 0-60                  |                     |  |
| V-Size   | 0-34          |                           |                           |             |                       |                     |  |
| Y-Level  | 0-20          |                           |                           |             |                       |                     |  |
| CB Level | 0-20          |                           |                           |             |                       |                     |  |
| CR Level | 0-20          |                           |                           |             |                       |                     |  |
| Trans    | 0 / 1 / 2 / 3 |                           |                           |             |                       |                     |  |
| 9        | Motion        | Off                       |                           |             |                       |                     |  |
|          |               | On                        | Det Window                | Window Zone | 0 / 1 / 2 / 3         |                     |  |
|          |               |                           |                           | Window Use  | On / Off              |                     |  |
|          |               |                           |                           | Det H-POS   | 0-60                  |                     |  |
|          |               |                           |                           | Det V-POS   | 0-34                  |                     |  |
|          |               |                           |                           | Det H-Size  | 0-60                  |                     |  |
|          |               |                           |                           | Det V-Size  | 0-34                  |                     |  |
|          |               | Det Tone                  | 0 / 1 / 2 / 3 / 4         |             |                       |                     |  |

|    |        |             |                                      |   |      |
|----|--------|-------------|--------------------------------------|---|------|
|    |        |             | Mdirect Fill                         | On / Off                                    |      |
|    |        |             | Sensitivity                          | 0-10  |      |
|    |        |             | Motion OSD                           | On / Off                                    |      |
|    |        |             | Text Alarm                           | On / Off                                    |      |
|    |        |             | Signal Out                           | On / Off                                    |      |
| 10 | System | Output Mode | HD Output                            | Off / CVBS / CVI / TVI / AHD                |      |
|    |        |             | Frame Rate                           | 1080 25P(30P) / 720 25P(30P) / 720 50P(60P) |      |
|    |        |             | Freq.                                | 50HZ / 60HZ                                 |      |
|    |        |             | Confirm                              | YES   |      |
|    |        | Image Range | Full                                 |   |      |
|    |        |             | Comp                                 |   |      |
|    |        |             | User                                 | Offset                                      | 0-32 |
|    |        | Color Space | HD-CbCr / YUV / SD-CbCr              |   |      |
|    |        | Color Bar   | On / Off                             |   |      |
|    |        | Language    | ENG / CHN / CHN(S) / JPN / KOR / POR |   |      |
|    |        | Cam Title   | Off                                  |   |      |
|    |        |             | Right Up                             |   |      |
|    |        |             | Left Down                            |   |      |
|    |        | Reset       |                                      |   |      |