EHA2580 eZ.HD Series

5MP IP66 IR Dome Camera

User's Manual

EverFocus

1. Introduction

Equipped with a 5MP Sony STARVIS CMOS sensor, the EverFocus eZ.HD series cameras – EHA2580 deliver 5MP image quality. The model provides 2.8-12mm 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 EHA2580 supports both NTSC and PAL scanning systems and is IP66 certified.
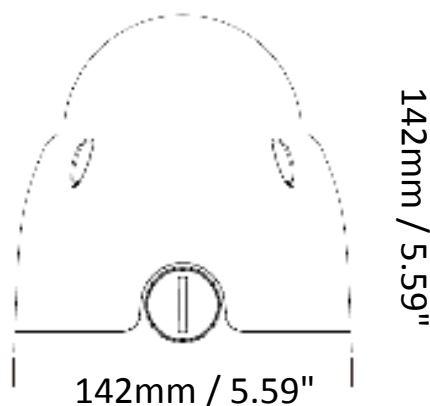
1.1 Packing List

- 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

- 5MP 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)
- 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 UTC function: Control camera OSD settings directly from DVR end

1.3 Dimensions

142mm / 5.59"

142mm / 5.59"

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 9.65"x6.3"x6.42"	140x136x233mm 5.51"x5.35"x9.17"	120x207x134mm 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 5.35"x5.35"x9.57"	136x136x443mm 5.35"x5.35"x17.44"
Weight	2.4kg / 5.29lb	3.6kg / 7.94lb

1.5 Cable Description

→ 12VDC Power Cable

→ Video Output Cable (BNC, 75Ohm)
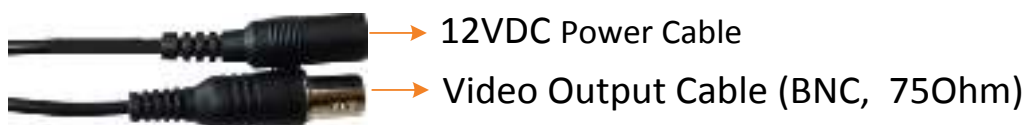
2. Installation

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**.
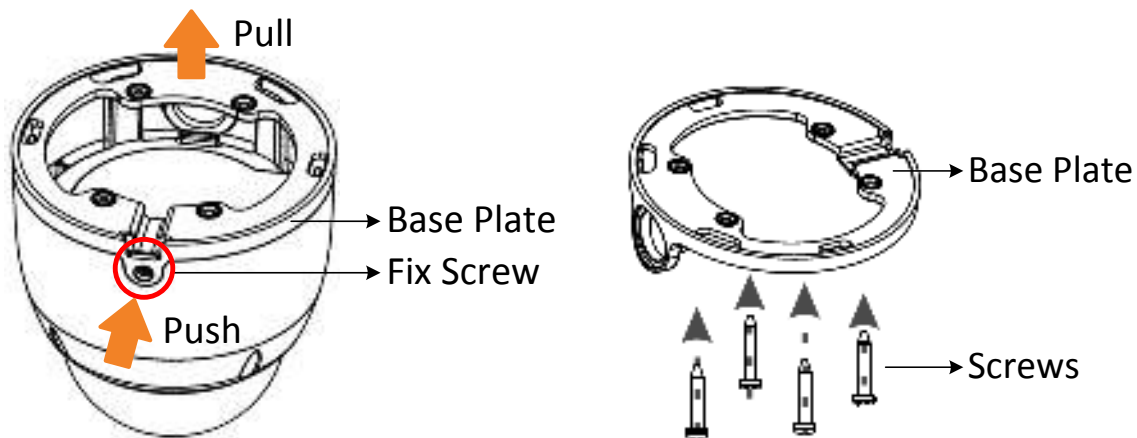

   b. Open the Camera Cover to remove the old desiccant bag from the Camera Body and stick the supplied **Desiccant Bag** inside the Camera Body. It's highly recommended to replace the desiccant bag every time when you open the Camera Cover.

   > **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.

   Zoom Focus

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

Base Plate

Camera Body

Fix Screw
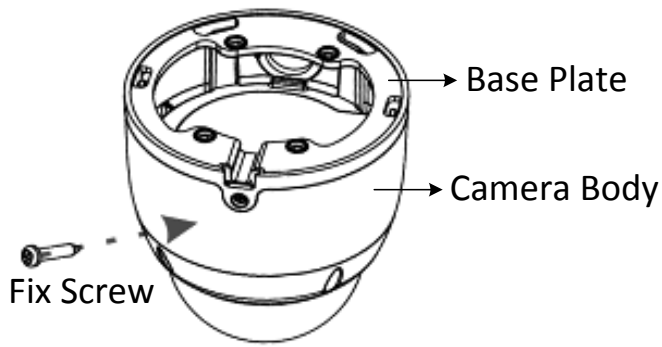
3. Connect the **Power Cable** to a 12VDCpower source. Connect the **Video Output Cable** to a monitor or DVR.
4. You can use the **Joystick** on the cable to configure camera OSD settings. Remove the Protection Cap from the Joystick before using it.
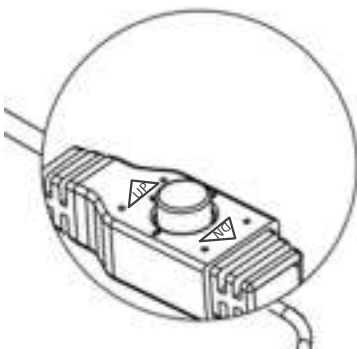
Configuring OSD Settings:

- 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 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.

350°

60°

350°
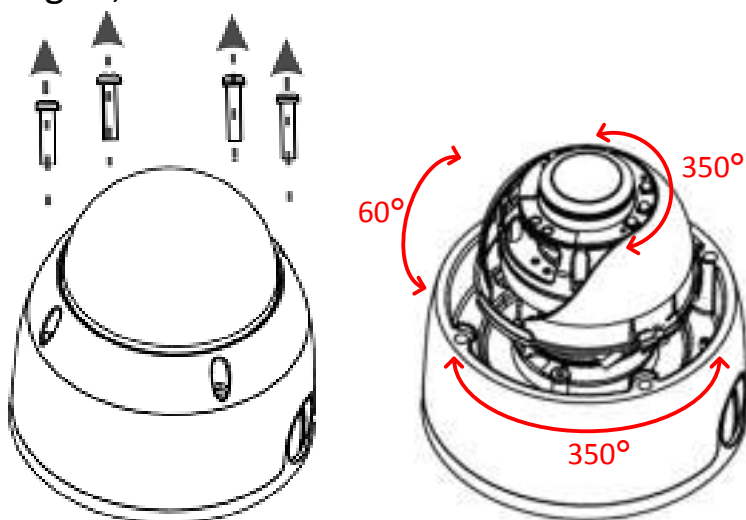
3. Configuration in the OSD Menu

No	Main	Sub Menu	Sub Menu / Function			
1	Edge Det	On	Level	0-10		
			Color	YEL, CYN, GRN, MAG, RED, BLU, BLK, WHT		
		Off				
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	X2, x4, x8, x16, x32, Off			
		AGC	0-10			
3	Backlight	HLC	Level	0-20		
			Color	YEL, CYN, GRN, MAG, RED, BLU, BLK, WHT		
		BLC	H-POS	0-26		
			V-POS	0-32		
			H-SIZE	0-26		
			V-SIZE	0-32		
		WDR	WDR Mode	Frame, Line		
			ROI Mode	Box	Window Zone	0-3
					Window Use	On, Off
					H-POS	0-2608
					V-POS	0-1960
					H-SIZE	0-2608
					V-SIZE	0-1960
				Polygon	Window Zone	0-3
					Window Use	On, Off
					POS0-X	0-721
					POS0-Y	0-535
					POS1-X	0-721
					POS1-Y	0-535
					POS2-X	0-721
					POS2-Y	0-535
					POS3-X	0-721
					POS3-Y	0-535
				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	

No	Menu	Item	Sub	Detail	Option	Value
			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	Auto			
			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	1.0X-16X			
		ACE	High, Middle, Low, Off			
		Defog	On	Mode		Auto, Manual
				Level		High, Middle, Low
			Off			
		Shading	On	Weight		0%-100%
			Off			
		Privacy	Box	On	Zone Num	0-15
					Zone Disp	On, Off
					H-POS	0-80
					V-POS	0-61
					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	0-162
					POS0-Y	0-122
					POS1-X	0-162
					POS1-Y	0-122
					POS2-X	0-162
					POS2-Y	0-122
					POS3-X	0-162
					POS3-Y	0-122
					Y Level	0-20
					CB Level	0-20
					CR Level	0-20
					Trans	0-3
				Off		

8	Motion	On	Det Window	Window Use	0-3
				Window Zone	On, Off
				Det H-POS	0-80
				Det V-POS	0-60
				Det H-Size	0-80
				Det V-Size	0-60
			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, 5MP/12.5fps, 5MP/20fps, 4MP/15fps	
			Freq	60Hz, 50Hz	
			Analog Mode	AHD, TVI, CVI, CVBS	
			Confirm	Yes	
			Return		
			Exit		
		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				