EBA1840 eZ.HD Series

8MP, IP66 IR Dome Camera

User's Manual

EverFocus

1. Introduction

EverFocus eZ.HD series cameras – EBA1840 deliver 8MP image quality. The model is equipped with 8MP CMOS sensor and provides 4mm fixed 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 EBA1840 supports both NTSC and PAL scanning systems (auto detection) 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
- User Manual x 1

1.2 Features

- Equipped with 8MP CMOS sensor
- 4mm fixed lens with ICR to capture the desired field of view
- Extended IR range of up to 20m / 66ft. with 18 LEDs (depends on scene IR reflectivity)
- T-WDR to improve the visibility under high contrast scene
- The flexible angle viewing with its 3-Axis rotation design allows wall or ceiling mounting
- IP66-rated with metal housing
- Supports UTC function: Control camera OSD settings from DVR end

1.3 Dimensions

76mm / 3"

94.5mm / 3.72"
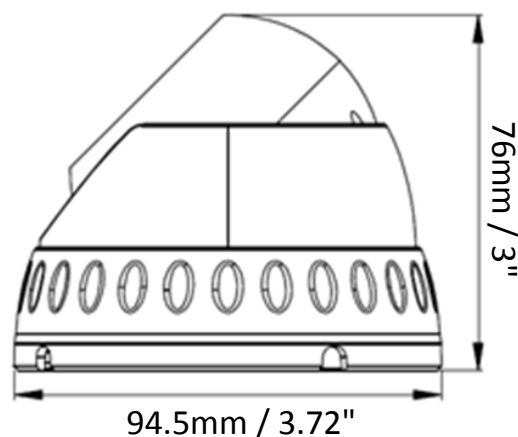
1.4 Optional Accessory
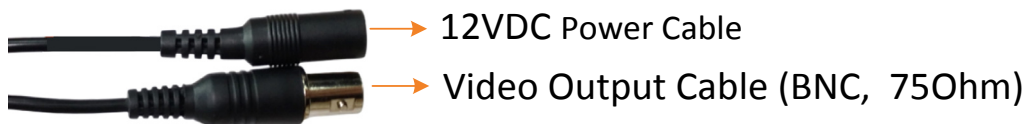
BA-E310	
	Color / Material: White / Metal Size (Φ x H): 101 x 52mm / 3.98" x 2" Weight: 540g / 1.2lb
BA-E173	
	Color / Material: White / Metal Size (W x D x H): 173 x 111 x 114mm / 6.81"x 4.37"x 4.49" Weight: 700g / 1.5lb

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. Unscrew the **Outer Housing** by twisting it counterclockwise and then remove it from the **Camera Base**.

Camera Body

Outer Housing
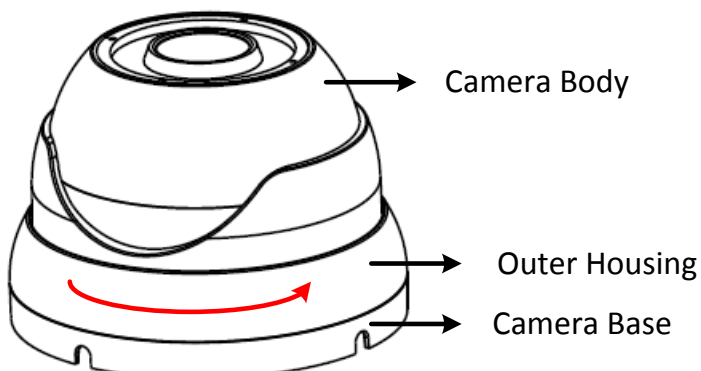
Camera Base

3. Screw the **Camera Base** to the surface with the supplied four **Screws**.
   a. If you want to wire the cables from the Side Cut on the Camera Base:
      Attach the Camera Body to the Camera Base and run the cables through the Camera Base, and then place the cable under the Side Cut. Finally, screw the Camera Base to the surface with the supplied 4 Screws.
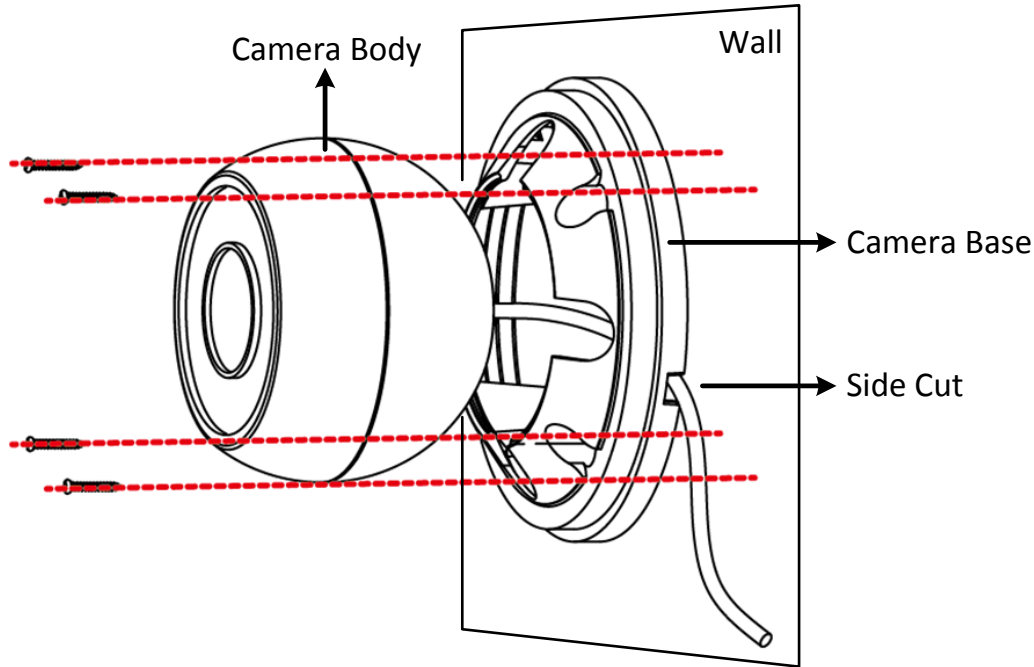
   b. If you want to wire the cables through the surface:
      Attach and screw the Camera Base to the surface with the supplied 4 Screws, and then attach the Camera Body to the Camera Base.
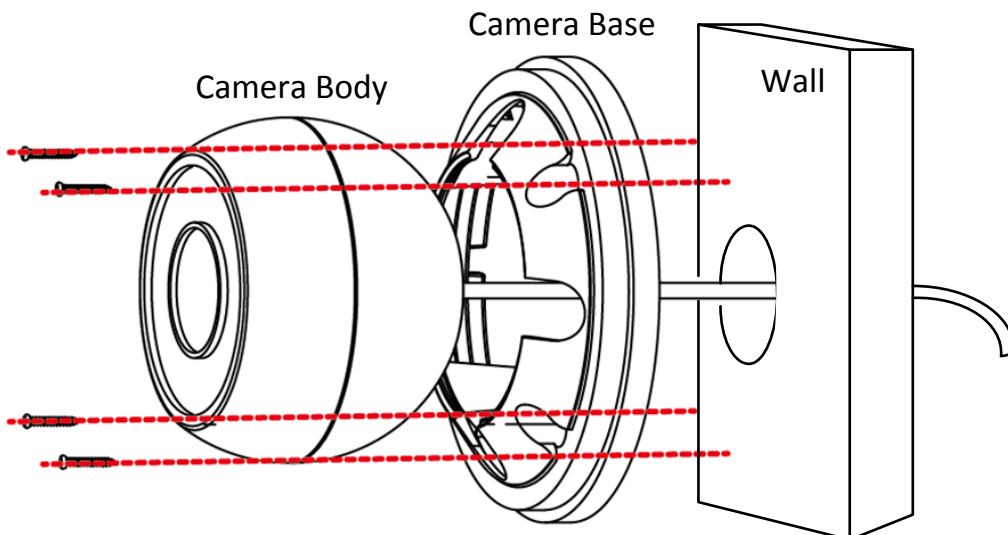
4. Screw back the **Outer Housing** and adjust the camera angle simultaneously.
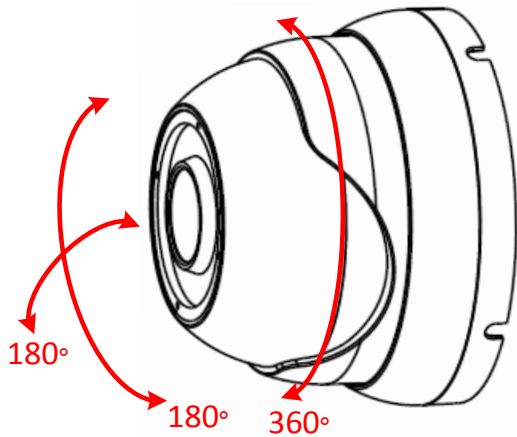
5. Connect the **Power Cable** to a 12VDC power source. Connect the **Video Output Cable** to a monitor or DVR.

6. You can use the **Joystick** on the cable to configure camera OSD settings. Remove the Protection Cap from the Joystick before using it.
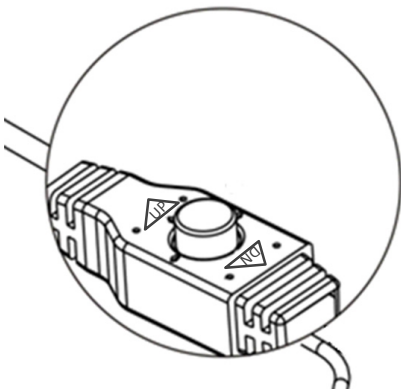
Configuring OSD Settings:
- Push the Joystick up / down to select among menu items.
- Push the Joystick left / right to adjust the level of the selected item.
- Press the Joystick to enter the submenu or exit the OSD Setup Menu.

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	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			
			ROI Mode	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	0-360	
					POS1-X	0-935	
					POS1-Y	0-360	
					POS2-X	0-935	
					POS2-Y	0-360	
					POS3-X	0-935	
					POS3-Y	0-360	
				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	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	Not supported			
		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	0-120
					V-POS	0-68
					H-Size	0-120
					V-Size	0-68
					Y Level	0-120
					CB Level	0-68
					CR Level	0-120
					Trans	0-68
				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	
			Off			
8	Motion	On	Det Window	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)		
			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					