AHD Waterproof IR Camera User Manual



BLSBVM40/2.4FHD

DESCRIPTION

The waterproof bullet camera adopt 2.0 Megapixel pixels 1080P@25/30fps high performance AHD sensor, no compressed, no delay, and realtime transmission image. IP66 waterproof standard, IR-CUT filter, smart-IR control. Fashionable and professional design.

ATTENTION

Thank you for your purchasing this product. Before attempting to conn-ect or operate this product, please read these instructions carefully and save this manual for future use.



- 1. Use the Appropriate Power Supply
- The input power for the camera is DC12V. Be sure to connect it to the appropriate power. Wrong connection may cause malfunction and/or damage to the video camera.
- 2.Do not attempt to disassemble the camera.
 - To prevent electric shock, do not remove screws or covers. There are no user serviceable parts inside. Ask a qualified service person for servicing.
- 3. Handle the camera with care.
 - Do not abuse the camera. Avoid striking, shaking, etc. The camera could be damaged by improper handling or storage.
- 4. Do note use strong or abrasive detergents when cleaning the camera body. Use a dry cloth to clean the camera when dirty. In case the dirt is hard to remove. Use a mild detergent and wipe gently.
- 5. Clean the sensor faceplate with care.
 - When cleaning the sensor panel, do not use strong or abrasive detergents. Use a piece of lens tissue or cotton tipped applicator and ethanol.
- 6. Do not attempt to aim the camera at the sun
 - Do not attempt to aim the camera at the sun or other extremely brightob -jects that causes mear to appear irrespective of whether the camera is operating or not. This can damage the sensor.
- 7. Do not put the camera in a place with interference.
 - When this camera is installed near the equipment like wireless communication device which emits strong electromagnetic field, some irregularity such as noise on monitor screen may happen.

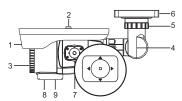
FEATURES

- ★2.0Megapixel high performance SONY322+NVP2441 sensor with 25/30fps@1080P, no compressed, no delay, and real-time transmission image.
- ★Built in IR-CUT, ensure the camera work properly both day and night.
- ★IP66 waterproof standard
- ★Long-life IR LED design, whose brightness is several times higher and service life longer than ordinary LED's
- ★SMART-IR,40 meters IR range
- ★Image transmission up to 500 meters.
- ★Adopts special algorithm, reducing video and color noise andthus improve image resolution, to produce clearer and sharper image.
- ★Elegant and solid combined type bracket, with video and power cable built-in. makes installation convenient and reliable.
- ★Powerful OSD menu(optional) allows for various function settings.

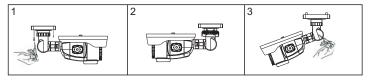


★Powerful OSD menu allows for various function settings.

PARTS INSTRUCTION AND INSTALLATION



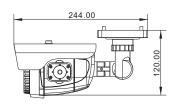
- 1. Sunshade
- 2. Fixing Screw for Sunshade
- 3. Camera Body
- 4. Camera Vertical Fixing Screw
- 5. Camera Horizontal Adjusting Ring
- 6. Bracket Base 7. Menu Button
- 8. Focus Knob 9. Zoom Knob

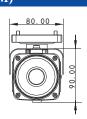


■ Camera Installation

- 1. Fix the camera to the needed place with the four pieces of screws.
- 2. Loosen the horizontal adjusting ring, adjust it to the needed place, then fix the horizontal adjusting ring.
- 3. Loosen the angle fixing screw, adjust it to the needed place, then fix the angle fixing screw.

DIMENTION(MM)





SPECIFICATION

Model	BLSBVM40/2.4FHD
Sensor	SONY322+NVP2441
Effective Pixels	1920(H)x1080(V)
Video Frame Rate	25/30fps@1080P
Max. transmission distance	500M
Video format	PAL/NTSC
Mini-illumination	0Lux (IR ON)
S/N Ration	More than 80dB (with AGC OFF)
OSD	Support
AGC	AUTO
White Balance	AUTO
Backlight	AUTO
NR	2D-DNR/3D-DNR
Brightness	Adjustable
Smart IR	Support
Sync code	Internal
Voltage	DC12V
Current	350mA±15%(IR ON);80mA±15%(IR OFF)
DAY/NIGHT	Support ICR
Lens	2.8-12mm HD Lens
IR range	40m
Waterproof standard	IP66
Video output	AHD/CVBS
Storage temperature	-20℃~70℃
Operate Temperature	-10℃~50℃RH90% MAX
Size	244(L) * 120(H) * 80(W)
Weight	1000g

^{*}Specifications subject to change without notice.

OSDMENU

Press the button into the main menu, set the LENS mode, EXPOSE, BACKLIGHT, WHITE BALANCE, DAY&NIGHT, NR, SPECIAL, ADJUST as needed.

```
MAIN MENU
                                 (MANUAL) نه
1.LENS
                                OFF(BLC i, HSBLC i)

ATW(AWC + SET, INDOOR, OUTDOOR, MANUAL i, AWB i)

EXT i (AUTO i, COLOR, B/W i)
2.EXPOSURE
3.BACKLIGHT
4.WHITE BAL
5.DAY&NIGHT
6.NR
7.SPECIAL
8.ADJUST
9.EXIT
                                 ŘET₄i
```

1. LENS

After set the LENS mode, press the menu button into the submenu, can adjust the P-IRIS MODE, LEVEL and LIMIT as needed.

DC LENS MODE		
1.MODE 2.IRIS SPEED 3.RETURN	اله INDOOR(OUTDOOR (نه) ۱۱۱۱۱ (۱۱۱۱ 8 (0-15) RET نه	
OUTDOO	R MODE	
1.MIN SHU	(MANUAL) نه DC	
2.MAX SHU	1/50(1/200、1/400、1/1000、1/2000、1/5000、	
	1/10000、1/50000、FLK)	
3.RETURN	ATW(AWC →SET,INDOOR,OUTDOOR,	

EXPOSURE

Press the menu button into the expose's submenu, set the SHUTTER\AGC\SENS-UP\BRIGHTNESS\D-WDR and DEFOG as needed.

```
EXPOSURE
1.SHUTTER
2.ACG
                    .....| 15 (0-15)
                    OFF(ON)
3.SENS-UP
4 BRIGHTNESS
                    AUTO(OFF,ON ¿i)
OFF(AUTO)
5.D-WDR
6.DEFOG
                    RET.
7.RETURN
```

1.LEVEL 2.RETURN	D-WDR	
	DEFON	

DEFON 1.POS/SIZE 2.CRADATION 1.POS/SIZE			
1.POS/SIZE 4	DEFO!	N	
3.DEFAULT 4.RETURN RET4	1.POS/SIZE 2.GRADATION 3.DEFAULT	نه (0-2) ا ا ا ا ا ا ا ا نه	

3. BLC Press the menu button into the BLC's submenu, set the GAIN\AREA\ DEFAULT as needed

	BL	С
▶1.GAIN		MIDDLE(HIGH,LOW)
2.AREA		الب
3.DEFAULT		.i
4.RETURN		RET(END)
	110010	·

HSBLC	
1.SELECT	AUTO(ARE1-ARE4)
2.DISPLAY	ON نه (ÒFF)
3.BLACK MASK	ON(OFF)
4.LEVEL	
5.MODE	ALL DAY(NIĞHT)
6.DEFAULT	ناها
7.RETURN	ŘET₄ i

4. WB (WHITE BALANCE)

Press the menu button into the WB's submenu, set the BLUE\ RED tone as needed.

	NIGHT		
1.AGC	GRADE	11 1111111 20 (0-100)	
2.RETU	JRN	RET ₄i	
	MANU	AL WB	
1.BLUE	Ē	 111111111 50 (0-100)	
2.RED		 111111111 50 (0-100)	
3.RETU	JRN	RET ₄i	

5.D&N (DAY & NIGHT)

3.RETURN

Press the LEFT OR RIGHT button choose the D&N's mode, and then press the menu button into the submenu, set the params as needed.

```
D&N EXT
1.D→N DELAY
2.N→D DELAY
3.RETURN
                      RET₄i
            D&N AUTO
                      1.D→N(AGC)
                     2.D+N DELAY
3.N→D(AGC)
4.N÷D DELAY
5.RETURN
                      | | | 1 (0-60)
                      RET₄∔
            B/W
1.BURST
                      RET
RET
RET↓
2.IR SMART
3.RETURN
             IR SMART
                      ı|11111111 2 (0-15)
1.LEVEL
2.AREA
                      ₩
RET₊i
```

 $6.\ NR (NOISE\ REDUCE)$ Press the menu button choose the NR mode, and then press the menu button into the submenu, set the params as needed.

```
NR
1.2D NR
                        LOW
RET∔
2.3D NR
3.RETURN
```

7. Special

Press the menu button into the submenu, set the CAMERA TITLE, D-EFFECT, MOTION, PRIVACY, LANGUAGE DEFECT as needed.

```
SPECIAL
1.CAM TITEL
2.D-EFFECT
                                     OFF(ON)
                                    ما

OFF(ON ها)

ATW(AWC → SET,INDOOR,OUTDOOR,

END ها CHN1 ها CHN2 ها NED ها POR ها,

RUS ها POL ها SPA ها FRA ها GER ها )
3.MOTION
4 PRIVACY
5.LANGUAGE
6.DEFECT
                                     RET₄i
8.RETURN
```

```
SPECIAL
```

```
D-EFFECT
1 FRFF7F
                         OFF(ON)
OFF(MIRROR, V-FLIP, ROTATE)
OFF(ON)
2.MIRROR
3.NEG IMAGE
                         RET₊i
4.RETURN
```

MOTION	
MOTION	
1.SELECT	AREAI(AREA2,AREA3,AREA4)
2.DISPLAY	ON (OFF)
3.SENSITIVITY	GREEN
4.COLOR	
5.TRANS	1.00
6.ALARM	نه
7.DEFAULT	أب
8.RETURN	RET₄i

-			
П		PRIVACY	
П		FRIVACI	
П	4 051 507		A D E A I / A D E A 2 A D E A 4 \
П	1.SELECT		AREAI(AREA2,AREA3,AREA4)
П	O DIODI AV		COLOD I/MOCAIC I)
П	2.DISPLAY		COLOR (MOSAIC i)
П	2 001 00		WHITE
П	3.COLOR		WHITE
П	4 TD ANO		1.00
П	4.TRANS		1.00
П	C DEEALUT		
П	5.DEFAULT		4
П	CDETUDN		DET :
П	6.RETURN		RET ₄i
ı			•

DEFECT	:
1.LIVE DPC	OFF(ON ↔)
2.WHITE DPC	ON ♣ i
3.BLACK DPC	ON . أب
4.RETURN	RET ≁ i

LIVE DPC	
1.AGC LEVEL 2.LEVEL 3.RETURN	

	WHITE DPC	
1.POS/SIZE	ن₄	
2.START	لٰهِ	
3.DPC VIEW	OFF 0 (0.100)	
4.LEVEL	ı 11111111 8 (0-100)	
5.AGC	1111111 11 14 (0-15)	
6.SENS-UP	x2(x4,x6,x8,x10,x15,x20,x25,x30)	
7.RETURN	RET √ İ	

	BLACK DPC	
1.POS/SIZE 2.START 3.DPC VIEW 4.LEVEL 5.RETURN	ط ط OFF ااااااااا RETط	ı 100 (0-100)

RS485	5
1.CAM ID 2.ID DISPLAY 3.BAUDRATE 4.RETURN	

8 ADJUST

Press the menu button into the submenu, set the SHARPNESS, MINITOR, LSC, VIDEO OUT as needed.

1.520 001 40 1100404.						
ADJUST						
1.SHARPNESS 2.MONITOR 3.LSC 4.VIDEO.OUT 5.RETURN	AUTO+i LCD+i ON PAL RET+i					