AHD Waterproof IR Camera User Manual



BLSDFP20/2.0FHD

DESCRIPTION

The waterproof 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 commun-ication device which emits strong electromagnetic field, some irregula-rity such as noise on monitor screen may happen.

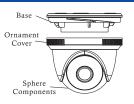
FEATURES

- ★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
- Long-effective IR Light Source Design
- ★SMART-IR,20 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.
- ★Powerful OSD menu allows for various function settings.



PARTS INSTRUCTION AND INSTALLATION



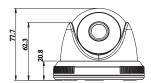




Rotate

- 1. Affix the Installation instructions to the wall;
- a: cement wall: drill a hole according to the stickers position and put the plastic expansion pipe into this hole;
- b: wooden wall: no need drill a hole.
- 2. Hold the pedestal, clockwise rotate the decorative cover and remove the pedestal.
- 3. Let base holes align the holes on the wall and use screws to secure the base on the wall.
- 4. put the Sphere components into the up cover, then put the decorative covers to this up case
- 5. assemble the Sphere components, roof cover and decorative cover, put the whole into the pedestal, then counterclockwise rotate the decorative covero the first gear
- 6. This series of camera has a three-axis adjustment function, the direction of this as shown in the picture
- 7. finally counterclockwise rotate the decorative cover into the second gear to fix the sphere, then finish the installation.

DIMENTION(MM)





SPECIFICATION

Model	BLSDFP20/2.0FHD
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	200mA±15%(IR ON);80mA±15%(IR OFF)
DAY/NIGHT	Support ICR
Lens	3.6mm HD Lens
IR range	20m
Waterproof standard	IP66
Video output	AHD/CVBS
Storage temperature	-20℃~70℃
Operate Temperature	-10℃~50℃RH90% MAX
Size	98.3mm (H)*77.7mm(Φ)
Weight	269g ±15%

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
                             INDOOR(OUTDOOR ← i)
3.RETURN
                             RET₄i
                 OUTDOOR MODE
                             DC ai (MANUAL)
 1.MIN SHU
                             1/50(1/200、1/400、1/1000、1/2000、1/5000、1/1000、1/5000、1/5000、FLK)
ATW(AWC →SET,INDOOR,OUTDOOR,
2.MAX SHU
3.RETURN
```

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	ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا

DEFON	
1.POS/SIZE 2.GRADATION 3.DEFAULT 4.RETURN	↓i

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

	Bl	.C
▶1.GAIN		MIDDLE(HIGH,LOW)
2.AREA		ٺ
3.DEFAULT		ڼ
4.RETURN		RET(END)
	LICDI C	·

L	1	TET(END)
ř		
ı	HSBLC	
ı	1.SELECT	AUTO(ARE1-ARE4)
ı	2.DISPLAY	OFF) نه ON
١	3.BLACK MASK	ON(OFF)
١	4.LEVEL	ıı ııııııı 20 (0-100)
١	5.MODE	ALL DAY(NIGHT)
١	6.DEFAULT	نه ا
l	7.RETURN	RET₄i

4. WB (WHITE BALANCE)

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

1	NIGHT
1.AGC GRADE	ıı ıııııı 20 (0-100)
2.RETURN	RET₊i
	MANUAL WB
1.BLUE	111111111 50 (0-100)
2.RED	 11111111 50 (0-100)
3.RETURN	RET₄i

5.D&N (DAY & NIGHT)

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
3.RETURN
```

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
2.3D NR
                     LOW
3.RETURN
                     RET
```

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
                                              0 1 2 3 4 5 6 7 8 9

A B C D E F G H I J K

L M N O P Q R S T U V

W X Y Z ▶ ★ ▲ ▼

() --- ■ /= &: ~, .

◆ ► CLR POS END

AHD 2.0
```

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

MOTION	
1.SELECT	AREAI(AREA2,AREA3,AREA4)
2.DISPLAY	ON 🕹 (OFF)
3.SENSITIVITY	GREEN
4.COLOR	:::::: ::::: 64 (0-100)
5.TRANS	1.00
6.ALARM	أب
7.DEFAULT	الْهِ
8.RETURN	ŘET ₄ i

PRIVACY	
AREAI(AREA2,AREA3,AREA4)	
(نه MOŚAIC) نه COLOR	
WHITE	
1.00	
نٰ₄	
RET₊i	
	AREAI(AREA2,AREA3,AREA4) COLOR (MOSAIC) WHITE 1.00

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	ن ه	
2.START	ڼپ	
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,x	(20,x25,x30)
7.RETURN	RET∙أ	

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

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

8 ADJUST

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

ADJUST .		
1.SHARPNESS 2.MONITOR 3.LSC	AUTO 4 i LCD 4 i ON	
4.VIDEO.OUT 5.RETURN	PAL RET ≁ i	