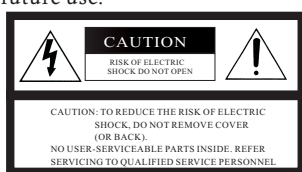# AHD Waterproof IR Camera
User Manual

BLSBFP25/2.0FHD

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.
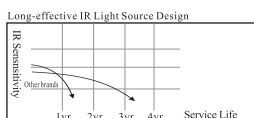
ATTENTION

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.

```
⚡  CAUTION  ⚠
   RISK OF ELECTRIC
   SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT REMOVE COVER
(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE. REFER
SERVICING TO QUALIFIED SERVICE PERSONNEL
```

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.
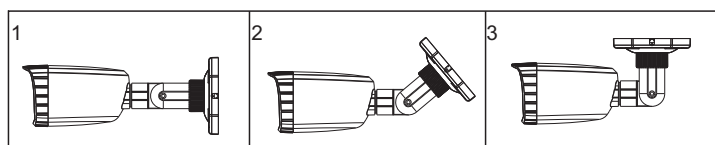
FEATURES

★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,25 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.
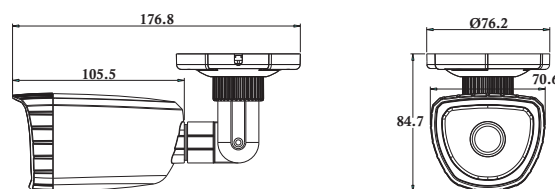
★Powerful OSD menu allows for various function settings.

PARTS INSTRUCTION AND INSTALLATION

1. Fix the camera to the place you need with three screws.
2. Loose the horizontal adjusting ring, and adjust the camera to the place you need, then fix the horizontal adjusting ring back.
3. Loose the angle fixed screws, and adjust the camera to the place you need, then fix the angle fixed screws back.

DIMENSION(MM)

SPECIFICATION

Model	BLSBFP25/2.0FHD
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	240mA±15%(IR ON);80mA±15%(IR OFF)
DAY/NIGHT	Support ICR
Lens	3.6mm
IR range	25m
Waterproof standard	IP66
Video output	AHD/CVBS
Storage temperature	-20℃~70℃
Operate Temperature	-10℃~50℃RH90% MAX
Size	176.8(L) * 76.2(W) *84.7(H)
Weight	375g ±15%

*Specifications subject to change without notice.

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

```
                    MAIN  MENU
1.LENS              DC↵(MANUAL)
2.EXPOSURE          ↵
3.BACKLIGHT         OFF( BLC↵,HSBLC↵ )
4.WHITE BAL         ATW(AWC➜SET,INDOOR,OUTDOOR,
                    MANUAL↵,AWB↵ )
5.DAY&NIGHT         EXT↵ (AUTO↵ ,COLOR,B/W↵ )
6.NR                ↵
7.SPECIAL           ↵
8.ADJUST            ↵
9.EXIT              RET↵
```

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             INDOOR(OUTDOOR↵)
2.IRIS SPEED       �006|ꞁꞁꞁꞁ 8 (0-15)
3.RETURN           RET↵
```

```
                   OUTDOOR MODE
1.MIN SHU          DC↵(MANUAL)
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,
```

2. 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              ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ| 15 (0-15)
3.SENS-UP          OFF(ON)
4.BRIGHTNESS       ꞁꞁꞁ|ꞁꞁꞁꞁꞁꞁ 34 (0-100)
5.D-WDR            AUTO(OFF,ON ↵)
6.DEFOG            OFF(AUTO↵ )
7.RETURN           RET↵
```

```
                   D-WDR
1.LEVEL            |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 0 (0-8)
2.RETURN           RET↵
```

```
                   DEFON
1.POS/SIZE         ↵
2.GRADATION        |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 0 (0-2)
3.DEFAULT          ↵
4.RETURN           RET↵
```

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

```
                   BLC
▶1.GAIN            MIDDLE(HIGH,LOW)
 2.AREA            ↵
 3.DEFAULT         ↵
 4.RETURN          RET(END)
```

```
                   HSBLC
1.SELECT           AUTO(ARE1-ARE4)
2.DISPLAY          ON ↵(OFF)
3.BLACK MASK       ON(OFF)
4.LEVEL            ꞁꞁ|ꞁꞁꞁꞁꞁꞁꞁꞁꞁ 20 (0-100)
5.MODE             ALL  DAY(NIGHT)
6.DEFAULT          ↵
7.RETURN           RET↵
```

4. WB (WHITE BALANCE)
Press the menu button into the WB's submenu, set the BLUE\ RED tone as needed.

```
                   NIGHT
1.AGC GRADE        ꞁꞁ|ꞁꞁꞁꞁꞁꞁꞁꞁꞁ 20 (0-100)
2.RETURN           RET↵
```

```
                   MANUAL WB
1.BLUE             |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 50 (0-100)
2.RED              |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 50 (0-100)
3.RETURN           RET↵
```

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        |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 2 (0-60)
2.N→D DELAY        |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 2 (0-60)
3.RETURN           RET↵
```

```
                   D&N AUTO
1.D→N(AGC)         ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ18 (0-18)
2.D→N DELAY        |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 1 (0-60)
3.N→D(AGC)         ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ|ꞁ 18 (0-18)
4.N→D DELAY        |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 1 (0-60)
5.RETURN           RET↵
```

```
                   B/W
1.BURST            RET
2.IR SMART         RET
3.RETURN           RET↵
```

```
                   IR SMART
1.LEVEL            ꞁ|ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 2 (0-15)
2.AREA             ↵
3.RETURN           RET↵
```

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            HIGH
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        OFF( ON)
2.D-EFFECT         ↵
3.MOTION           OFF( ON ↵ )
4.PRIVACY          ATW(AWC➜SET,INDOOR,OUTDOOR,
5.LANGUAGE         END↵ (CHN1↵ ,CHN2↵ ,TUR↵ ,NED↵ ,POR↵ ,
                   RUS↵ ,POL↵ ,SPA↵ ,ITA↵ ,FRA↵ ,GER↵ )
6.DEFECT           ↵
7.RS485            ↵
8.RETURN           RET↵
```

```
                   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           OFF(ON)
2.MIRROR           OFF(MIRROR,V-FLIP,ROTATE)
3.NEG IMAGE        OFF(ON)
4.RETURN           RET↵
```

```
                   MOTION
1.SELECT           AREAI(AREA2,AREA3,AREA4)
2.DISPLAY          ON ↵ ( OFF)
3.SENSITIVITY      GREEN
4.COLOR            ꞁꞁꞁꞁꞁ|ꞁꞁꞁꞁ 64 (0-100)
5.TRANS            1.00
6.ALARM            ↵
7.DEFAULT          ↵
8.RETURN           RET↵
```

```
                   PRIVACY
1.SELECT           AREAI(AREA2,AREA3,AREA4)
2.DISPLAY          COLOR↵ (MOSAIC↵ )
3.COLOR            WHITE
4.TRANS            1.00
5.DEFAULT          ↵
6.RETURN           RET↵
```

```
                   DEFECT
1.LIVE DPC         OFF(ON ↵ )
2.WHITE DPC        ON↵
3.BLACK DPC        ON↵
4.RETURN           RET↵
```

```
                   LIVE DPC
1.AGC LEVEL        ꞁꞁꞁꞁ|ꞁꞁꞁꞁꞁꞁ 64 (0-100)
2.LEVEL            ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ| 100 (0-100)
3.RETURN           RET↵
```

```
                   WHITE DPC
1.POS/SIZE         ↵
2.START            ↵
3.DPC VIEW         OFF
4.LEVEL            ꞁ|ꞁꞁꞁꞁꞁꞁꞁꞁꞁ 8 (0-100)
5.AGC              ꞁꞁꞁꞁꞁꞁꞁꞁ|ꞁꞁ 14 (0-15)
6.SENS-UP          x2(x4,x6,x8,x10,x15,x20,x25,x30)
7.RETURN           RET↵
```

```
                   BLACK DPC
1.POS/SIZE         ↵
2.START            ↵
3.DPC VIEW         OFF
4.LEVEL            ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ| 100 (0-100)
5.RETURN           RET↵
```

```
                   RS485
1.CAM ID           |ꞁꞁꞁꞁꞁꞁꞁꞁꞁꞁ 0 (0-255)
2.ID DISPLAY       OFF(ON)
3.BAUDRATE         38400(2400/4800/9600/19200)
4.RETURN           RET↵
```

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

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