

HD 720P Waterproof IR Camera

User Manual



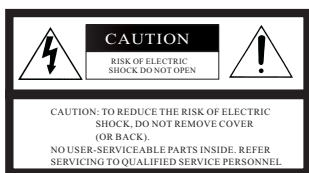
BLSDFP15/1.0AHD

DESCRIPTION

The waterproof camera adopt 1.0 mega pixels 720P@25/30fps high performance 720P sensor. The camera adopt new material with IP66 waterproof standard, IR-CUT filter, smart-IR control. Fashionable and professional design.

ATTENTION

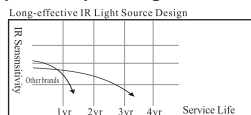
Thank you for your purchasing this product. Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use.



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 not 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 bright objects that causes glare 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

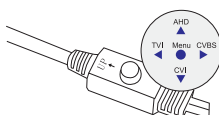
- ★1.0Megapixel high performance CMOS sensor with 25/30fps@720P.
- ★Built-in IR-CUT, ensure the camera work properly both day and night.
- ★IP66 waterproof standard.
- ★Long-life IR LED design, whose brightness is several times higher and service life longer than ordinary LED's
- ★SMART-IR, 20 meters IR range.
- ★Image transmission up to 500 meters.



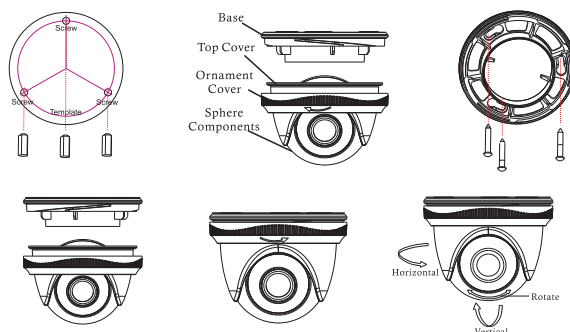
Direction	UP	DOWN	LEFT	RIGHT
Video	AHD	CVI	TVI	CVBS

Video mode switch operation and attention:

1. When camera is powered and connect to default DVR, keep press OSD cable for 5 seconds to switch video. After video switched, connect to relevant DVR, it turns to normal image.
2. Each time to connect the power, only can switch one video mode once. eg. if default for AHD video and switch to TVI, and then to AHD, it needs cut off the power and plug in the power again.

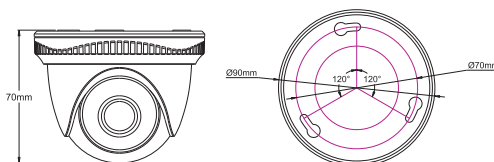


PARTS INSTRUCTION AND INSTALLATION



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 cover 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.

DIMENSION(MM)



SPECIFICATION

Model	BLSDFP15/1.0AHD
Sensor	720P Sensor
Effective Pixels	1280(H)x800(V)
Video Frame Rate	25/30fps@720P
Max.transmission distance	500M
Video format	PAL/NTSC
Mini-illumination	0Lux (IR ON)
S/N Ration	More than 50dB(with AGC OFF)
OSD	Support
AGC	ON/OFF
White Balance	ATW/AWB
Backlight	Low/ Middle / High
NR	2DNR/3DNR
Shutter Speed	AUTO/MANUAL
Day/Night	COLOR, BLACKWHIT, AUTO GEN
Sync code	Internal
Voltage	DC12V
Current	160mA±15%(IR ON); 70mA±15%(IR OFF)
DAY/NIGHT	Support ICR
Lens	3.6mm HD Lens
IR range	20m
Waterproof standard	Ip66
Video output	CVBS/AHD/TVI/CVI
Storage temperature	-20℃~70℃
Operate Temperature	-10℃~50℃RH90% MAX
Size	70mm(H)*90mm(Φ)
Weight	130g±15%

*Specifications subject to change without notice. EN-M01-523C-20150618

OSD MENU

Press the MENU button, enter the Main menu, set the Exposure, Shutter mode, AGC, AWB, Image ADJ, Daynight, System, Bad pixel, Privacy mask, HLC as needed.

MAIN MENU

- | | |
|----------------|--------------------------------|
| 1.EXPOSURE | G AE (BLC) |
| 2.SHUTTER MODE | AUTO(MANUAL) |
| 3.AGC | |
| 4.AWB | ATW1(ATW2,ATW3) |
| 5.IMAGE ADJ | |
| 6.DAYNIGHT | EXT (COLOR,BLACKWHIT,AUTO GEN) |
| 7.SYSTEM | |
| 8.BAD PIXEL | |
| 9.PRIVACY MASK | |
| 10.HLC | |

1. EXPOSURE

Move the cursor to Exposure, press the right and left button, can set the mode to GAE or BLC, also you can press the menu button into the submenu, set specific parameters as needed.

- | | |
|--------------|------------------|
| G AE | |
| 1.BRIGHTNESS | LOW(MIDDLE,HIGH) |
| | RETURN |

- | | |
|-------------|------------------|
| BLC | |
| 1.INTENSITY | LOW(MIDDLE,HIGH) |
| | RETURN |

2. SHUTTER MODE

Move the cursor to Shutter mode, press the right and left button, can set the mode as AUTO or MANUAL, also you can press the menu button into the MANUL submenu, set specific parameters as needed.

- | | |
|-----------------|--|
| SHUTTER MODE | |
| 1.SHUTTER SPEED | 1/100000(1/50,1/100,1/250,1/500,1/0000,1/5000,1/10000) |
| | RETURN |

3. AGC

Move the cursor to AGC mode, press the menu button into the submenu, set specific parameters as needed.

- | | |
|-------------|------------------|
| AGC | |
| 1.MODE | ON(OFF) |
| 2.INTENSITY | HIGH(LOW,MIDDLE) |
| | RETURN |

4. IMAGE ADJUSTABLE

Move the cursor to IMAGE ADJ, can press the menu button into the submenu, set specific parameters as needed.

- | | |
|--------------|-----------|
| IMAGE ADJ | |
| 1.SHARPNESS | 55(0-100) |
| 2.HDNR | 80(0-100) |
| 3.CONTRAST | 50(0-100) |
| 4.SATURATION | 40(0-100) |
| 5.R GAIN | 50(0-100) |
| 6.G GAIN | 45(0-100) |
| 7.B GAIN | 50(0-100) |
| 8.PARA I | 0(0-531) |
| 9.PARA V | 0000 |
| | RETURN |

5. DAY / NIGHT

Move the cursor to DAY/NIGHT, can press the menu button into the submenu, set specific parameters as needed.

- | | |
|----------|----------|
| DAYNIGHT | |
| 1.D TIME | 1(0-100) |
| | RETURN |

- | | |
|-------------|-----------|
| DAYNIGHT | |
| 1.D CTRL | 1(0-100) |
| 2.DAY2NIGHT | 80(0-100) |
| 3.NIGHT2DAY | 70(0-100) |
| 4.TV SYSTEM | RETURN |

6. SYSTEM

Move the cursor to SYSTEM, can press the menu button into the submenu, set specific parameters as needed.

- | | |
|-------------|------------------|
| SYSTEM | |
| 1.LANG | ENG (CHI) |
| 2.TV GAMMA | MIDDLE |
| 3.TV BRIGHT | LOW(HIGH,MIDDLE) |
| 4.TV SYSTEM | PAL (NTSC) |
| | RETURN |

7. BAD PIXEL

Move the cursor to PIXEL, can press the menu button into the submenu, set specific parameters as needed.

- | | |
|-------------|------------------|
| BAD PIXEL | |
| 1.MODE | ON(OFF) |
| 2.INTENSITY | LOW(HIGH,MIDDLE) |
| | RETURN |

8. PRIVACY MASK

Move the cursor to PRIVACY MASK, can press the menu button into the submenu, set specific parameters as needed.

- | | |
|--------------|-------------------|
| PRIVACY MASK | |
| 1.MODE | MOSAIC(DEF COLOR) |
| 2.DEF COLOR | 1/ 15 |
| 3.SELECT | 1/ 4 |
| 4.SWITCH | OFF(ON) |
| 5.RANGE | |
| | RETURN |

9. HLC

Move the cursor to HLC, can press the menu button into the submenu, set specific parameters as needed.

- | | |
|-------------|----------|
| HLC | |
| 1.MODE | OFF(ON) |
| 2.BLACKNESS | 0(0-100) |
| | RETURN |