



AHD Waterproof IR Dome Camera User Manual



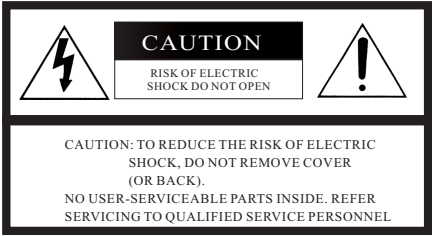
BLSDFP20/1.4FHD

DESCRIPTION

The waterproof camera adopt 1.3 mega pixels 720P@25/30fps high performance AHD sensor. The camera adopt new material with IP66 weatherproof 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 wear 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.

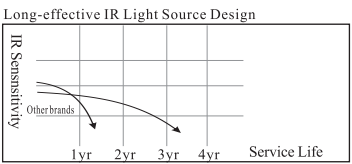
FEATURES

★1.3Megapixel high performance CMOS sensor with 25/30fps@720P.

★Built in IR-CUT, ensure the camera work properly both day and night.

★IP66 weatherproof standard.

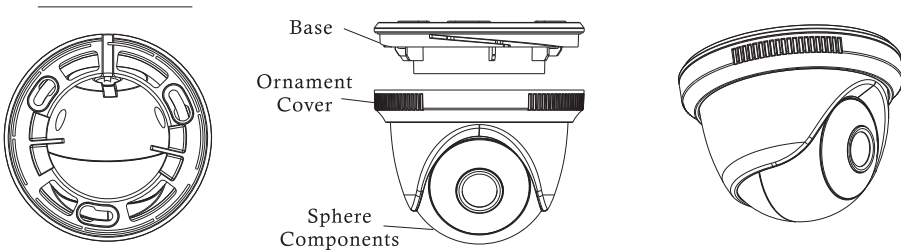
★Long-life IR LED design, whose brightness is several times higher and service life longer than ordinary LED's



★SMART-IR, 20 meters IR range.

★Image transmission up to 500 meters.

PARTS INSTRUCTION AND INSTALLATION

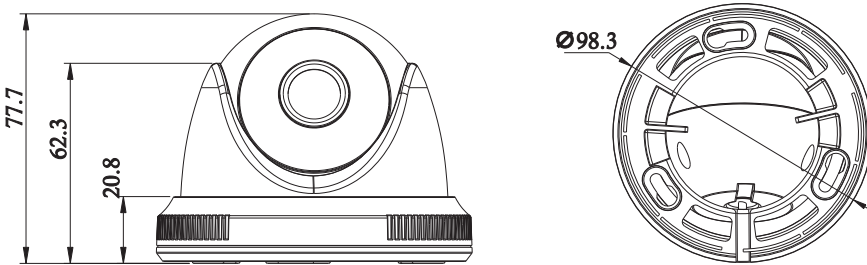


- Affix the Installation instructions to the wall;
a: cement wall: drill a hole according to the stickers position and put the plastic expansion pipe into this hole;
b: wooden wall: no need drill a hole.
- Hold the pedestal, clockwise rotate the decorative cover and remove the pedestal.
- Let base holes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

★Switch between AHD and CVBS

CVBS to AHD: push the right button for 5 seconds
AHD to CVBS: push the left button for 5 seconds

DIMENTION(MM)



SPECIFICATION

Model	BLSDFP20/1.4FHD
Sensor	720P Sensor
Effective Pixels	1280(H)x1024(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	English/Chinese/RUS/FRA/NED/TUR/POR/SPA/ITA/GER/POL
AGC	0-15
White Balance	ATW/AWC-SET/INDOOR/OUTDOOR/MANUAL/AWB
Backlight	BLC/OFF/HSBLC
NR	2DNR/3DNR
Spec Fun	D-WDR/DEFOG/Mirror/NEG IMAGE/FREEZE/PRIVACY/MOTION/SENS-UP
Shutter Speed	AUTO/(1/25-1/50, 000 x2-x30)
Sync code	Internal
Voltage	DC12V
Current	185mA±15%(IR ON);65mA±15%(IR OFF)
DAY/NIGHT	EXT/AUTO/COLOR/B/W
Lens	3.6mm HD Lens
IR range	20m
Weatherproof standard	IP66
Video output	CVBS/AHD
Storage temperature	-20℃~70℃
Operate Temperature	-10℃~50℃RH90% MAX
Size	98.3mm (H)*77.7mm(Φ)
Weight	269g ±15%

*Specifications subject to change without notice.

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OSD MENU

MENU:

Press the MENU button to display MENU. You can set the LENS, EXPOSURE, WHITE BAL, BACKLIGHT, NR, DAY&NIGHT, SPECIAL and SYSTEM ADJUST to ensure the image quality.

MENU	
► 1.LENS	DC (MANOAL)
2.EXPOS URE	OFF (BLC, HSBLC)
3.BACKLIGHT	ATW(AWC→SET, INDOOR
4.WHITE BAC	OUTDOOR, MANUAL, AWB),
	EXT(AUTO, COLOR, B/W)
5.DAY&NGHTI	
6.NR	
7.SPECIAL	
8.ADJUST	
9.EXIT	HIGH(OFF, LOW, MIDDLE)

LENS-DC LENS MODE:

According to the lens type, you can enter the submenu and setup the MODE to INDOOR OR OUTDOOR. Also you can adjust the IRIS SPEED as needed.

DC LENS MODE	
► 1.MODE	INDOOR(OUTDOOR)
2.IRIS SPEED	5 (0-10)
3.RETURN	RET (SAVE&END)

OUTDOOR MODE	
► 1.MIN SHU	1/25
2.MAX SHU	1/50 (FLK, 1/200, 1/400, 1/1000, 1/2000, 1/5000, 1/10000, 1/50000)
3.RETURN	RET (SAVE&END)

EXPOSURE:

Press the MENU button to display EXPO submenu, you can setup the SHUTTER, AGC, SENS-UP, BRIGHTNESS, D-WDR, DEFOG as needed.

EXPOSURE	
► 1.SHUTTER	----
2.AGC	(0-15)
3.SENS-UP	AUTO (OFF)
4.BRIGHTNESS	37 (1-100)
5.D-WDR	OFF (ON, AUTO)
6.DEFOG	OFF (AUTO)
7.RETURN	RET (SAVE&END)

SENS-UP	
► 1.SENS-UP	X2(X4, X6, X8, X10, X15, X20, X25, X30)
2.AGC	RET (SAVE&END)

D-WDR	
► 1.LEVEL	(0-8)
2.RETURN	RET (SAVE&END)

DEFOG	
► 1.POS/SILE	0 (0-22)
2.GKADATION	
3.DEFAULT	
4.POS/SILE	RET (SAVE&END)

POS/SILE	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

BLC:

Press the menu button, move the cursor to BLC. You can setup the BLC MODE to OFF, BLC and HSBLC. Also can display the submenu to setup the other indicators as needed.

BLC	
► 1.LE VRL	MIDDLE(HIGH, LOW)
2.AREA	
3.DEFAULT	
4.RETURN	RET (SAVE&END)

POS/SILE	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

BLC	
► 1.SELECT	AREA1 (AREA1-AREA4)
2.DISPLAY	ON (OFF)
3.BLACK MASK	ON (OFF)
4.LEVEL	20 (0-100)
5.MODE	ALL DAY (NIGHT)
6.DEFAULT	
7.RETURN	RET (SAVE&END)

POS/SILE	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

NIGHT MODE	
► 1.BLVE	48 (0-255)
2.RETURN	RET (SAVE&END)

WB:

Press the menu button, move the cursor to WHITE BAL. You can setup the WHITE BAL MODE to ATW, AWB and MANUAL WB. Also can display the submenu to setup the other indicators as needed.

MANUAL WB	
► 1.BLVE	50 (0-100)
2.RED	50 (0-100)
3.RETURN	RET (SAVE&END)

D&N:

Press the menu button, move the cursor to DAY&NIGHT. You can setup the DAY&NIGHT MODE to AUTO, COLOR and B/W. Also can display the submenu to setup the other indicators as needed.

D&N EXT	
► 1.D→N (DELAY)	1 (0-60)
2.N→D (DELAY)	1 (0-60)
3.RETURN	RET (SAVE&END)

D&N AUTO	
► 1.D→N (AGC)	48 (0-255)
2.D→N (DELAY)	3 (0-60)
3.N→D (AGC)	48 (0-255)
4.N→D (DELAY)	3 (0-60)
5.RETURN	RET (SAVE&END)

B/W	
► 1.BURST	OFF (ON)
2.IR SMART	OFF (ON)
3.IR PWM	OFF (1 (1-100))
4.RETURN	RET (SAVE&END)

IR SMART	
► 1.LEVEL	3 (0-15)
2.AREA	
3.RETURN	RET (SAVE&END)

AREA	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

NR:

Move the cursor to NR and press the menu button to display submenu. You can setup the mode to 2DNR or 3DNR.

NR	
► 1.2DNR	HIGH (OFF, LOW, MIDDLE)
2.3DNR	LOW (MIDDLE, HIGH, OFF)
3.RETURN	RET (SAVE&END)

SPECIAL:

Move the cursor to SPECIAL and press the menu button to display submenu. You can setup the CAM TITLE, D-EFFECT, MOTION, PRIVACY, LANGUAGE, DEFOG and RS485.

SPECIAL	
► 1.CAM TITLE	OFF (ON)
2.D-EFFECT	
3.MOTION	OFF (ON)
4.PRIVACY	OFF (ON)
5.LANGUAGE	CHN (CHN, GER, FRA, ITA, SPA, POL, RUA, POR, NED, TUR, END)
6.DEFCT	
7.RS485	
8.RETURN	RET (SAVE&END)

CAM TITLE	
0 1 2 3 4 5 6 7 8 9	
ABCDEFGHIJK	
LMNOPQRSTU	
VWXYZ	
() - _ . / = & : ~ ,	
← → CLR POS END	

D-EFFECT	
► 1.FREELE	OFF (ON)
2.MIRROR	OFF (MIRROR, V-FLIP, ROTATE)
3.NEG. IMAGE	OFF (ON)
4.RETURN	RET (SAVE&END)

MTOTION	
► 1.SELECT	AREA1 (AAREA1-AAREA4)
2.DISPLAY	ON (OFF)
3.SENSITIVITY	64 (0-100)
4.COLOR	GREEN (BLUE, WHITE, RED)
5.TRANS	1.00 (0.75, 0.50, 0.25)
6.ALARY	
7.DEFAULT	
8.RETURN	RET (SAVE&END)

DISPLAY	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

ALARM	
► 1.VIEW TYPE	ALL (OFF, BLOCK, OUTLINE)
2.OSD VIEW	ON (OFF)
3.ALARM OUT	ON (OFF)
4.ALARM SIG	HIGH (LOW)
5.TIME	5 (0-15)
6.RETURN	RET (SAVE&END)

DEFECT	
► 1.LIVE DPC	OFF (ON)
2.OSD VIEW	OFF (ON)
3.ALARM OUT	OFF (ON)
4.ALARM SIG	RET (SAVE&END)

LIVE DPC	
► 1.AGC LEVEL	64 (0-255)
2.LEVEL	100 (0-100)
3.RETURN	RET (SAVE&END)

WHITE DPC	
► 1.POS/SILE	
2.START	
3.DPC VIEW	ON (OFF)
4.LEVEL	64 (0-100)
5.AGC	64 (0-100)
6.SENS-UP	X4 (X6, X8, X10, X15, X20, X25, X30, X2)
7.RETURN	RET (SAVE&END)

POS/SILE	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

CLOSE THE IRIS THEN ENTER	
►	

BLACK DPC	
► 1.POS/SILE	
2.START	
3.DPC VIEW	ON (OFF)
4.LEVEL	255 (0-255)
5.RETURN	RET (SAVE&END)

POS/SILE	
► --- POSITION ---	(--- SIZE --- --- RET AGAZN ---)

CLOSE THE IRIS THEN ENTER	
►	

Rs485	
► 1.CAM ID	100 (0-100)
2.ID DISPLAY	ON (OFF)
3.BAUDRATE	38400 (2400, 4800, 9600, 19200)
4.RETURN	RET (SAVE&END)

ADJUST:

Press the menu button to display submenu, can setup the SHARPNESS, MONITOR, LSC, VIDEO OUT MODE.

ADJUST	
► 1.SHARPNESS	AUTO (OFF)
2.MONITOR	LCD (CTR)
3.LSC	ON (OFF)
4.VIDEO OUT	PAL
5.RETURN	RET (SAVE&END)

SHARPNESS	
► 1.KEVEL	5 (0-10)
2.START AGC	32 (0-255)
3.END AGC	130 (0-255)
4.RETURN	RET (SAVE&END)

LCD	
► 1.BLACK LEVEL	6 (0-60)
2.GAMMA	USER (0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00)
2.BLUE GAIN	53 (0-100)
3.RED GAIN	53 (0-100)
4.RETURN	RET (SAVE&END)

CRT	
► 1.BLACK LEVEL	6 (0-60)
2.BLUE GAIN	50 (0-100)
3.RED GAIN	50 (0-100)
4.RETURN	RET (SAVE&END)