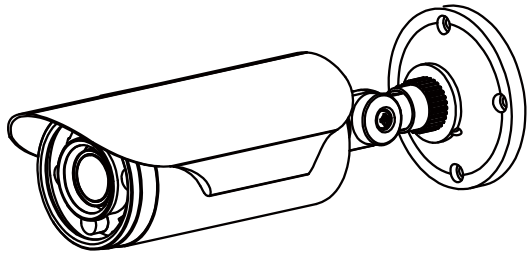


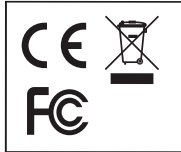


Outdoor IR Bullet Camera Instruction Manual



Emissions: - CE:
- EN55022
- EN55011
- FCC:
- 47 CFR Part15 Subpart B
- ANSI C63.4
- ICES-003

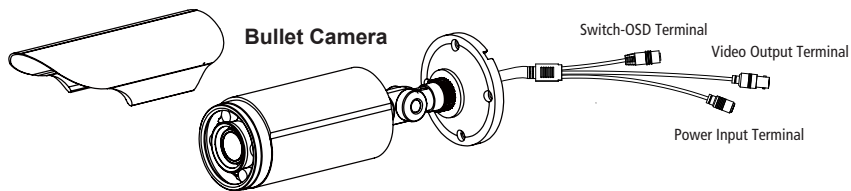
Immunity: - CE:
- EN55024
- EN50130-4



V531-BQ003-200
Ver.07/2019

Parts and Descriptions

Sunhood



Accessories

- Screws X 4
- Short screws X 4
- Wall plugs X 4
- Rubber sealing plug X1
- Inner hexagon spanner X1
- OSD control cable X1
- Power lead X 1
- Mounting base X1

Specifications

General Specifications		
TV System	NTSC	PAL
Image Sensor	Sony 1/3" Super HAD-II Wide Dynamic	
Effective Picture	976(H) x 494(V)	976(H) x 582(V)
Scanning Frequency	60Hz	50Hz
Resolution	700 TVL	
Minimum Illumination	Day Mode 0.3Lux (F1.2, 50IRE, AGC ON, IR Off), Night Mode 0 Lux (IR On)	
S/N Ratio	50dB (100 IRE, F1.2)	
Video Output	Composite (75 Ω BNC unbalanced connector)	
2nd Video Output	Yes (supports installation check)	
Power Source	12 VDC ±10% / 24 VAC ±20%	
Power Consumption	Normal: 2.6 W, IR On: 6.7W (Max)	
Operating Temperature	-10°C ~ +50°C	
Storage Temperature	-20°C ~ +60°C	
Dimensions	φ90.7*79.2*274.8 mm	

Functional Specifications		
Sense Up	ON / OFF	
Shutter Speed	AES	NTSC: 1/60 ~ 1/100000 PAL: 1/50 ~ 1/100000
	MES	1/50 (1/60), 1/120 (1/100), 1/250, 1/500, 1/1K, 1/2K, 1/4K, 1/10K
Wide Dynamic Range (WDR)	OFF/ATR-EX/WDR	
High-Light Compensation (HLC)	ON/OFF	
Backlight Compensation (BLC)	Full Range	
AGC Gain Control	44.8 dB	
Day/Night	TDN (Auto / Color / Night)	
White Balance Control	ATW / Manual / Push / Push Lock / USER1,2	
Auto White Balance Range	Indoor: 1800K~10500K	Outdoor: 6500K~10500K
Mirror	OFF/N-FLIP/H-FLIP/HV-FLIP	
Defog	ON/OFF	
Sync System	INT /LL	
Motion Detection	4 Areas	
Privacy Zone	Up to 15 Masks	
Digital Noise Reduction	3D DNR	
Digital Zoom	255X Max	
DIS	ON/OFF	
IR Optimizer	ON/OFF	
IR LED Count	4 PCS	
IR Illumination Wavelength	850 nm	
IR Illumination Range	50 m	

Lens Specifications

Lens Specifications			
Focal Length		2.8 ~ 10 mm	9 ~ 22 mm
F-No.		F1.2	F1.4
Iris Range		F1.2 ~ F360C	F1.4 ~ F360C
Minimum Object Distance		0.15 m	0.5 m
Field of View	Diagonal	125.0° ~ 36.0°	41.9° ~ 16.3°
	Horizontal	94.6° ~ 28.8°	32.1° ~ 13.1°
	Vertical	68.4° ~ 21.6°	23.3° ~ 9.8°

Connection and Adjustment

Precautions

This product must be installed and maintained in accordance with good installation practices by qualified personnel only.

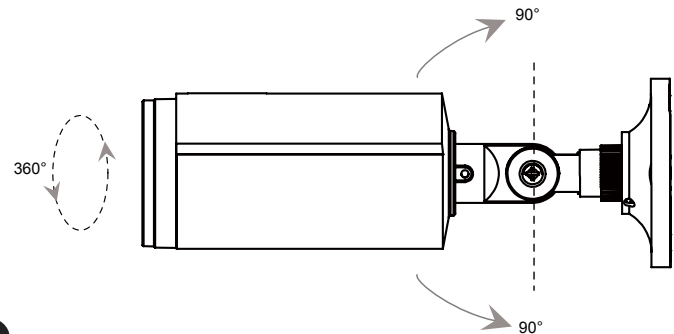
To prevent damage to your camera or injury to yourself or to others, read and comply with the safety precautions as follows:

- Never attempt to disassemble or modify the camera. Any modification could lead to damages that are not covered by the guarantee.
- Do not expose or operate the camera in wet areas. Moisture may damage the camera and also increase the danger of electrical shock.
- Make sure the power source is switched off and disconnected before installation. Refer servicing to qualified personnel only.
- Do not attempt to aim the camera at the sun or other extremely bright objects. This may cause damage to the CCD and the void of warranty.
- To prevent fire or electrical shock, use only regulated power supply and the wiring should be used for the appropriate input terminal.
- Do not touch the lens or the CCD by hands while installing or adjusting the camera. This may cause damage to the camera.

Camera Installation

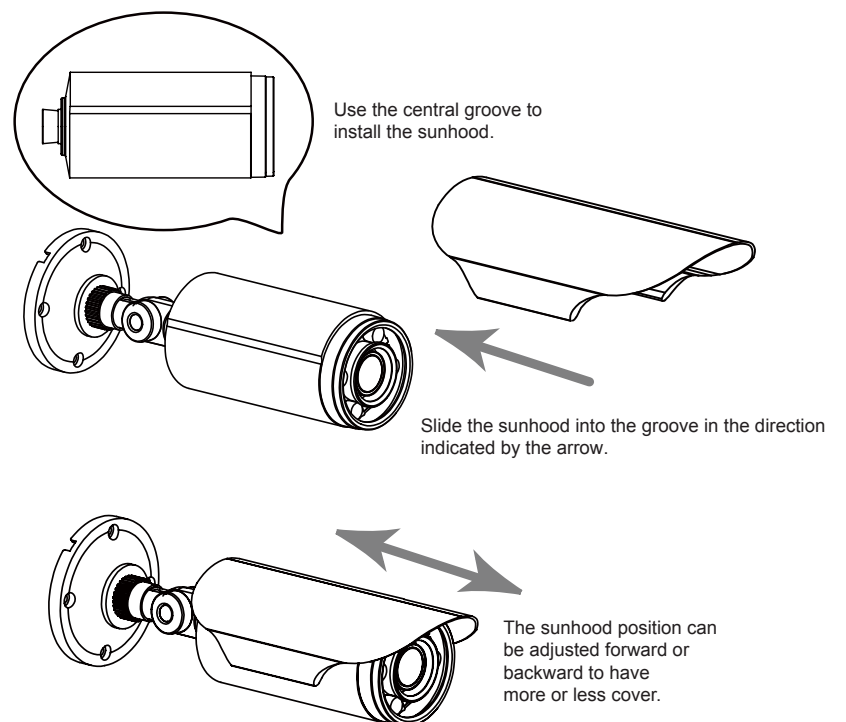
1

Screws can be loosened and the desired position can be adjusted. Loosen and tighten the screws by using a crosshead screwdriver.



2

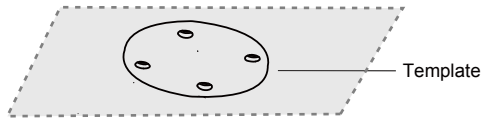
To remove/install the sunhood, please follow the direction indicated below.



3 Mounting on ceiling

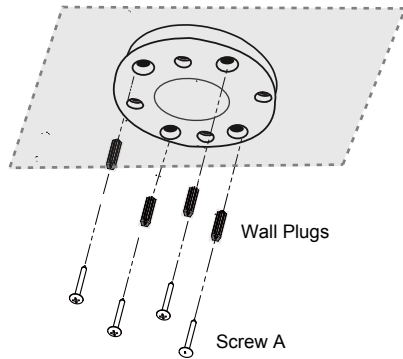
Step1: Prepare the mounting area

Use the template to mark an appropriate mounting position on the ceiling, drilling to create apertures on a wall or ceiling.



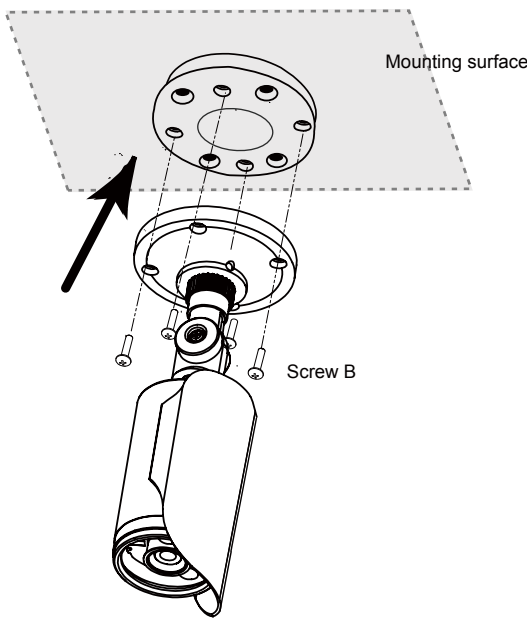
Step2: Mount the mounting base

Insert the wall plugs into the drilled holes and fix the mounting base onto surface by using screws "B" supplied in the accessories bag.



Step3: Fix the camera onto mounting base

Secure the camera onto the mounting base by using screw driver to fasten screw "A".

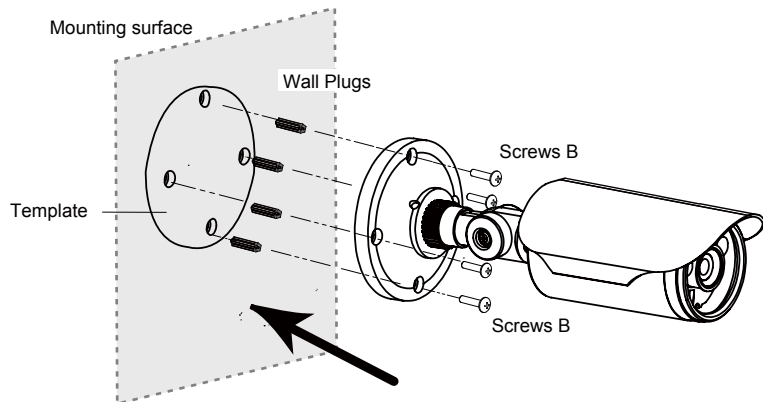


Mounting on wall

Use the template to mark an appropriate mounting position on the ceiling, drilling to create apertures on a wall or ceiling.

Insert the wall plugs into the drilled holes and install the camera to the mounting surface by fastening four screws.

Secure the camera on the mounting surface by using a screw driver.

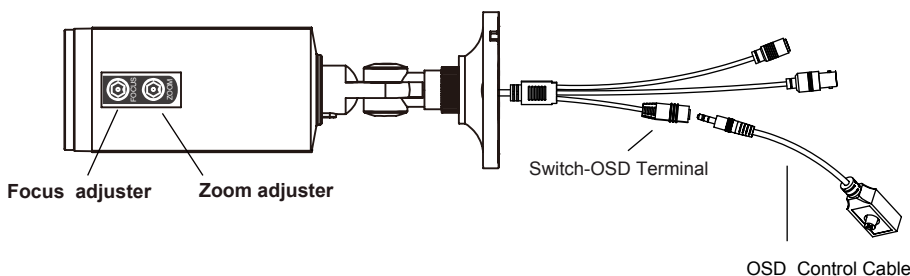


Connection and Adjustment

Camera Adjustment

There is an adjustment mechanism on the top of the camera. Please use the Inner hexagon spanner attached in the accessories bag to make the adjustment of the zoom and focus to acquire the premium image.

Please use the OSD control cable supplied in the accessories bag to make the OSD adjustment.



Camera OSD Menu

PAGE1	
SCENE SELECT	FULL AUTO INDOOR OUTDOOR BACKLIGHT-ITS CUSTOM
SHUTTER / AGC	AUTO MANUAL FIX
AE LEVEL	001 ~ 250
AGC MAX	6.0DB ~ 44.8DB
SENS UP	AUTO / OFF
SHUTTER	256FLD ~ 1/10000
AGC MAX	6.0DB ~ 44.8DB
SHUTTER	256FLD ~ 1/10000
AGC MAX	6.0DB ~ 44.8DB
SPEED	000 ~ 255
DELAY CNT	001 ~ 255
ATW FRAME	001 ~ 255
ENVIRONMENT	INDOOR / SUNNY / SHADE / AUTO
WHITE BAL	ATW(*1) PUSH
USER1	RGAIN 000 ~ 255 BGAIN 000 ~ 255
USER2	RGAIN 000 ~ 255 BGAIN 000 ~ 255
MANUAL	LEVEL 00 ~ 63
PUSH LOCK	
HLC/BLC	OFF HLC CLIP LEVEL 000 ~ 255 BLC(*2)
WDR/ATR-EX(*3)	OFF ATR-EX CONTRAST LOW / MID / HIGH(*4) CLEAR FACE LOW / MID / HIGH / OFF
WDR	CONTRAST LOW / MID / HIGH CLEAR FACE OFF / LOW / MID / HIGH
DNR	LEVEL 0 ~ 6
DAY/NIGHT	DAY NIGHT BURST ON/OFF AUTO BURST ON/OFF CNTL SIGNAL INT/EXT1/EXT2 DELAY CNT DAY->NIGHT NIGHT->DAY
IR OPTIMIZER	OFF ON MODE AUTO CENTER
IR AREA	TOP 0~6 BOTTOM 0~6 LEFT 0~8 RIGHT 0~8 WEIGHT 00~15
LEVEL	0~12
IR LED	OFF FIX LEVEL 000 ~ 255 DAY/NIGHT LEVEL MIN 001 ~ 255 LEVEL MAX 001 ~ 255
COLOR NIGHT	OFF ON COLOR GAIN LOW / MID / HIGH
IR SHADE COMP	OFF ON PATTERN SET1 / SET2 / SET3 POSH 000 ~ 959 POSV 000 ~ 490 LEVEL OFF / LOW / MID / HIGH
LENS SHD COMP	OFF ON PATTERN SET1 / SET2 / SET3 POSH 000 ~ 959 POSV 000 ~ 490
DEFOG(*5)	OFF ON LEVEL LOW / MID / HIGH
FLK LESS	OFF AUTO MODE GAIN CNTL SHUTTER FIX ON MODE GAIN CNTL SHUTTER FIX
ANTI CR	AUTO/OFF/ON
PICT ADJUST	BRIGHTNESS CONTRAST SHARPNESS HUE COLOR GAIN
DIS	ON/OFF
EZOOM	OFF ON MAG/PAN/TILT
PRIVACY MASK	AREA SEL 1~15 DISPLAY OFF / ON POSITION COLOR WHITE / BLACK / RED / GREEN / BLUE / YELLOW / CYAN / MAGENTA TRANSP 0.00 / 0.50 / 0.75 / 1.00 MOSAIC OFF / ON
MOTION DET	OFF ON DETECT SENSE INTERVAL BLOCK DISP MASK AREA MOTION AREA AREA SEL 1~4 MODE TOP BOTTOM LEFT RIGHT
SYS SETTING	SYNC MODE INT/LL(*6) LENS MANUAL AUTO TYPE MODE ADJUST SPEED FLIP OFF/H/V/H LCD/CRT COMMUNICATION PROTOCOL ADDRESS BAUDRATE DATABIT PARITY STOPBIT CAMERA ID OFF ON POS
EXIT	
PAGE2	
LANGUAGE	ENGLISH/中文/ESPAÑOL/PORTUGUES/PYCKNNN/FRANCAIS/DEUTSCH/日本語
VERSION	
MAINTENANCE	W.PIX MASK CAMERA RESET MANUAL REGISTRATION REG.POINT CURSOR COLOR BLINK REG.NUMBER
EXIT	SAVE NOT SAVE CANCEL BACK AUTO RUN BACK DATA CLEAR

Note
*1 This can not be changed from ATW except CUSTOM mode.
*2 BLC can be selected on CUSTOM mode.
*3 This can not be changed except CUSTOM mode.
*4 This is MID on FULL AUTO, OUTDOOR and ITS mode, LOW on INDOOR mode, HIGH on BACKLIGHT mode.
*5 This can not be changed except CUSTOM mode.
*6 The default SYNC Mode is set as INT.
The SYNC Mode can be selected as LL on OSD menu but the actual mode is INT when the power is DC12V.
▶ This item has subsequent adjustment screens