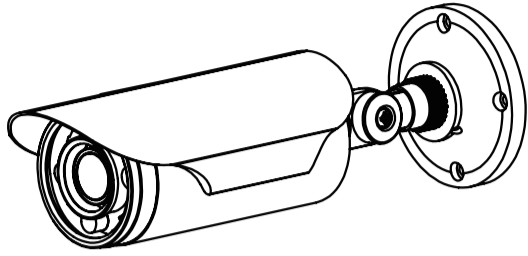




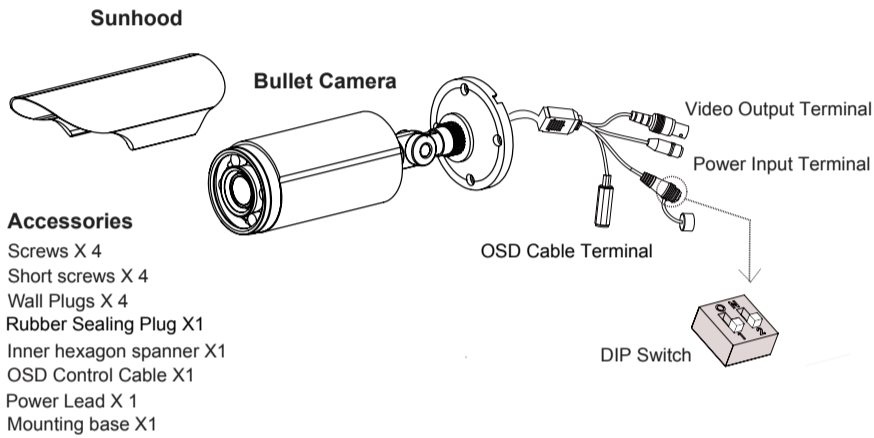
# Analog HD Outdoor Bullet Camera User Guide



2MP Day / Night  
Color Camera

V531-BQ001-200  
VER. 03/2019

## Parts and Descriptions



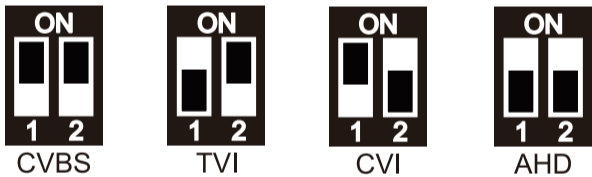
### Accessories

- 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

## Before Installation

If any of HD over Coaxial Technology is available and intend to be used (e.g. DVR, Video Server), please adjust to corresponded video signal before installation according to the required specifications

This dip switch cable is for setting of video signal mode, CVBS is set as factory default.



## Specifications

General Specifications	
TV System	NTSC / PAL
Scanning Frequency	NTSC: 60Hz / PAL: 50Hz
Iris Type	Fixed Iris
Image Sensor	1/2.8" CMOS Sensor
Effective Picture	2 Megapixel
Resolution	1945(H)*1097(V)
S/N Ratio	≥42dB (AGC OFF)
Video Output	CVBS/AHD/TVI/CVI
IR Distance	50 m
Power Source	DC 12V±10%    DC 12V±10%, AC 24V±20%
Power Consumption	TBD
Operating Temperature	-10 C ~+50 C
Storage Temperature	-20 C ~+60 C
Functional Specifications	
AES	AUTO / 1/50 (1/60) -1/60000 Sec
BLC	Off / BLC
AGC Gain Control	0-10
Day/Night Control	External Control/Color/B&W/ Auto
White Balance	Auto /Auto Ext / Preset / Manual
UTC Remotely Transmission	DVR Remotely Control
T-WDR	OFF/Low/Middle/High, S/N Ratio: 120dB
Defog	OFF/ON
Motion Detection	4 Zones
Privacy Zone	4 Privacy Zone
Sharpness	0-10
Digital Noise Reduction	3D DNR
Language	English/Simplified Chinese/Traditional Chinese/German/French/Italian/Spanish Polish/Russian/Portuguese/Dutch/Turkish

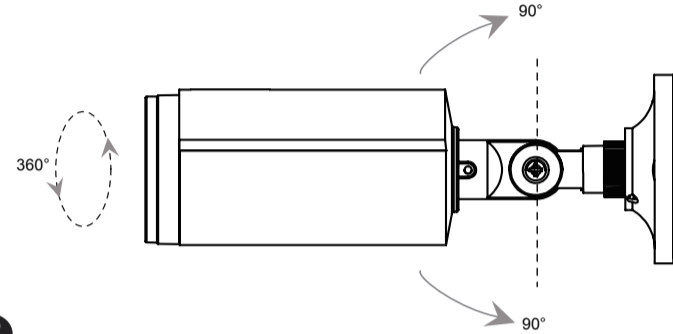
Lens Specifications		
Focal Length	2.8-12 mm	6.0-22 mm
F No.	F1.8-F360	F2.2-F360
Field of View	H	100 -32°
	V	72°-24°
	D	140°-40°
		46.4°-16.3°
		34.8°-12.2°
		58°-20.4°

## Precautions

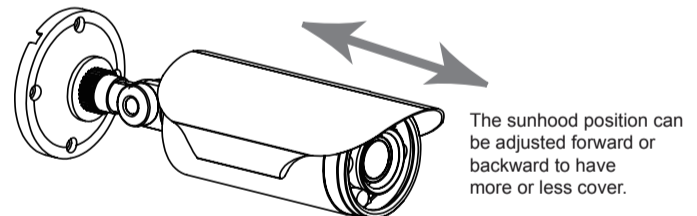
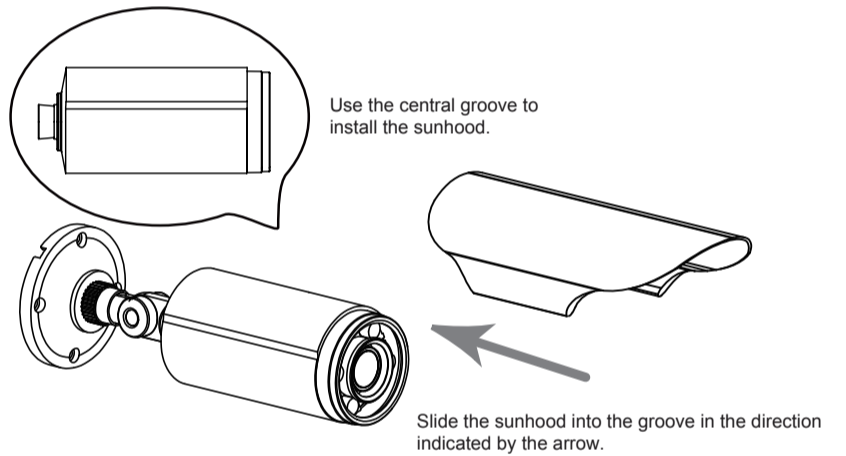
- Do not attempt to aim the camera at the sun or other extremely bright objects. This may cause damage to the CMOS and the void of warranty.
- Do not touch the lens or the CMOS by hands while installing or adjusting the camera. This may cause damage to the camera.
- Do not attempt to disassemble the camera. It may change its waterproof design and cause water leakage.

## Camera Installation

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



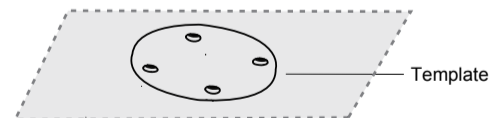
- To remove/install the sunhood, please follow the direction indicated below.



## 3 Mounting on ceiling

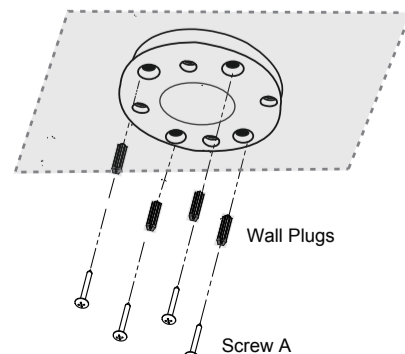
### Step1: Prepare the mounting area

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



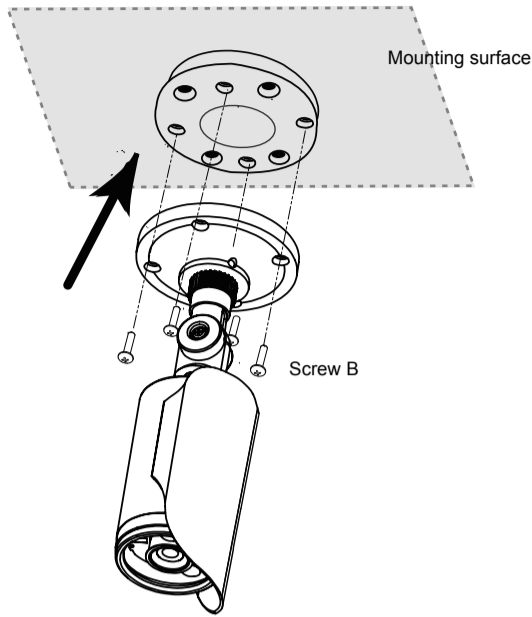
### Step2: Mount the mounting base

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".

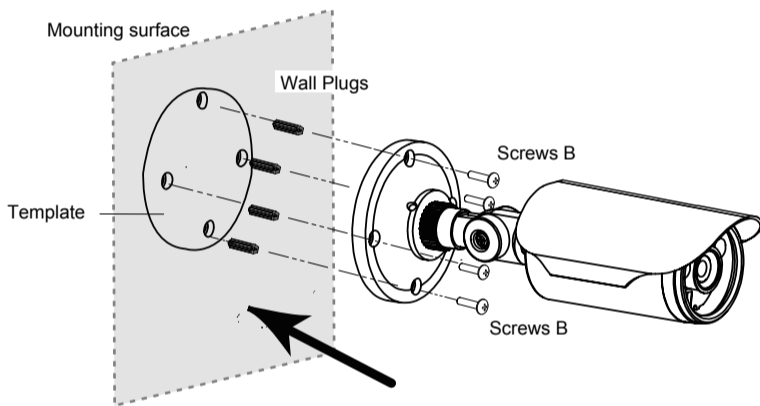


### Mounting on wall

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.

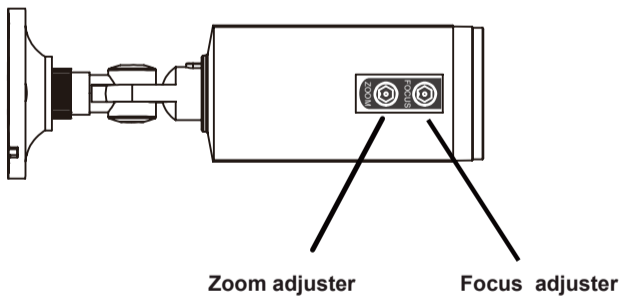
Secure the camera on the mounting surface by using a screw driver.



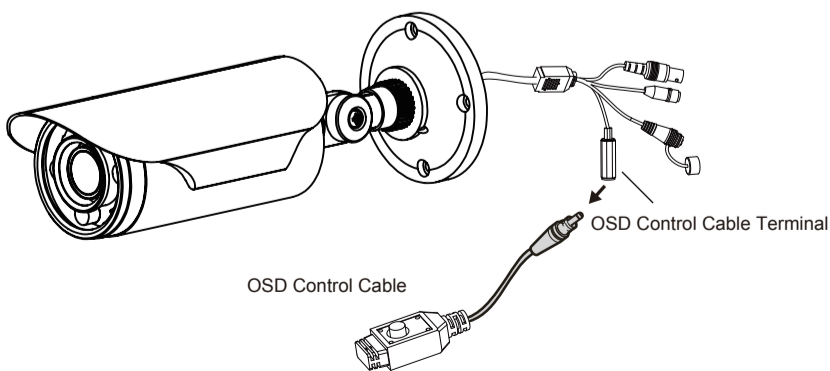
## Connection and Adjustment

### 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 connect the OSD control cable to the OSD cable terminal, then use the OSD control key to make the configuration.



## Camera OSD Menu

```

IRIS .....ELCALC
EDGE DET .....OFF
      .....ON
      .....LEVEL: 0-10
      .....COLOR: WHT/YEL/CYN/GRE/MAG/RED/BLU/BLK
      .....RETURN
BRIGHTNESS .....0-20
EXPOSURE .....SHUTTER .....AUTO .....MODE .....RETURN
      .....MANUAL .....SPEED: 1/30, 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/15000, 1/30000
      .....SENSE-UP .....OFF
      .....X2/X4/X8/X16/X32
      .....AGC .....0-10
      .....RETURN
BACKLIGHT .....OFF
      .....HLC .....LEVEL .....0-20
      .....COLOR .....WHT/YEL/CYN/GRE/MAG/RED/BLU/BLK
      .....RETURN
      .....BLC .....H-POS .....0-20
      .....V-POS .....0-20
      .....H-SIZE .....0-20
      .....V-SIZE .....0-20
      .....RETURN .....0-20
      .....WDR .....WDR MODE .....LINE/FRAME
      .....ROI MODE .....OFF .....WINDOW ZONE: 0/1/2/3
      .....ON .....WINDOW USE: ON/OFF
      .....H-POS: 0-1920
      .....V-POS: 0-1080
      .....H-SIZE: 0-1920
      .....V-SIZE: 0-1080
      .....RETURN
      .....WEIGHT .....LOW/MIDDLE/HIGH
      .....RETURN
      .....IR LED .....OFF/ON
      .....ANTI-SAT .....0-20
      .....AUTO .....AGC THRES .....0-20
      .....AGC MARGIN .....0-20
      .....DELAY .....LOW/MIDDLE/HIGH
      .....RETURN
DAY & NIGHT .....COLOR
      .....IR LED .....OFF/ON
      .....ANTI-SAT .....0-20
      .....RETURN
      .....EXTERN .....EXTERN SW .....LOW/MIDDLE/HIGH
      .....D>N THRES .....0-20
      .....N>D THRES .....0-20
      .....DELAY .....LOW/MIDDLE/HIGH
      .....RETURN
      .....AWB .....AUTO
      .....AUTO ext .....AUTO ext
      .....PRESET .....C-TEMP .....3000K/5000K/8000K
      .....MANUAL .....R-GAIN .....0-20
      .....B-GAIN .....0-20
      .....RETURN
COLOR .....COLOR GAIN .....0-20
      .....RETURN
DNR .....OFF/LOW/MIDDLE/HIGH
      .....SHARPNESS .....0-10
      .....GAMMA .....0.45/0.55/0.65/0.75
      .....MIRROR .....OFF/ON
      .....FLIP .....OFF/ON
      .....D-ZOOM .....T.0X-16.0X
      .....ACE .....OFF/LOW/MIDDLE/HIGH
      .....DEFOG .....OFF
      .....ON .....MODE .....AUTO/MANUAL
      .....LEVEL .....LOW/MIDDLE/HIGH
      .....RETURN
      .....SHADING .....OFF
      .....ON .....WEIGHT .....0%-100%
      .....RETURN
      .....BOX .....OFF
      .....ON .....ZONE NUM .....0-15
      .....ZONE DISP .....OFF/ON
      .....H-POS .....0-60
      .....V-POS .....0-34
      .....H-SIZE .....0-60
      .....V-SIZE .....0-34
      .....Y LEVEL .....0-20
      .....CB LEVEL .....0-20
      .....CR LEVEL .....0-20
      .....TRANS .....0/1/2/3
      .....RETURN
      .....PRIVACY .....POLYGON .....OFF
      .....ON .....ZONE NUM .....0-7
      .....ZONE DISP .....OFF/ON
      .....POS0-X .....0-120
      .....POS0-Y .....0-68
      .....POS1-X .....0-120
      .....POS1-Y .....0-68
      .....POS2-X .....0-120
      .....POS2-Y .....0-68
      .....POS3-X .....0-120
      .....POS3-Y .....0-68
      .....Y LEVEL .....0-20
      .....CB LEVEL .....0-20
      .....CR LEVEL .....0-20
      .....TRANS .....0/1/2/3
      .....RETURN
      .....RETURN .....WINDOW USE .....0/1/2/3
      .....WINDOW ZONE .....OFF/ON
      .....DET H-POS .....0-60
      .....DET V-POS .....0-34
      .....DET H-SIZE .....0-60
      .....DET V-SIZE .....0-34
      .....RETURN
      .....SENSITIVITY .....0-10
      .....MOTION OSD .....OFF/ON
      .....TEXT ALARM .....OFF/ON
      .....SIGNAL OUT .....OFF/ON
      .....RETURN
      .....CAM ID .....0-255
      .....COM .....BAUDRATE .....2400/4800/9600/57600/115200
      .....RETURN
      .....OUTPUT .....FRAME RATE: 720_30P/1080_60P
      .....FREQ: 50/60
      .....SDI MODE: OFF/135M(V2.0)/135M+(V2.0)/270M(V1.0)
      .....ANALOG MODE: OFF/CVBS/HD_T
      .....RETURN
      .....FULL
      .....IMAGE RANGE .....COMP
      .....USER .....OFFSET .....0-32
      .....RETURN
      .....COLOR SPACE .....YUV/SD-CbCr/HD-CbCr
      .....COLOR BAR .....ON/OFF
      .....LANGUAGE .....ENG/TRA CHN/SIM CHN/JAN/KOR/ITA
      .....CAM TITLE .....OFF
      .....RIGHT UP
      .....RESET .....LEFT DOWN
      .....RETURN
EXIT
  
```