speco technologies®

Giving You More.

VLBT5W /VLBT6W/ VLDT5W/VLDT6M/VLT7W

USER MANUAL

Thank you for purchasing our product. Speco Technologies is constantly developing and improving products. We reserve the right to modify product design and specifications without notice and without incurring any obligation.

Warnings

■ If the product does not work properly, please contact the dealer or where the product was purchased. Speco Technologies is not responsible for any problems caused by improper operation or repair.
■ Keep away from liquid while in use.
■ All installation and operation here should conform to local electrical safety codes.
■ Make sure the power supply voltage is correct before using the camera.
■ Do not drop the camera or subject it to physical shock.
■ Do not use the device beyond specified voltage range.
■ Do not place the camera in extremely hot, cold (the operating temperature shall be (-4˚F~122˚F), dusty or damp locations, and do not expose it to high electromagnetic radiation.
■ To avoid heat accumulation, good ventilation is required for operating environment.

Introduction

This camera series is the latest technology and advanced circuit design, which features high definition and sensitivity, low noise and distortion and supports HD video transmission with the common coaxial cable, ensuring the requirement of the HD monitoring in the traditional surveillance system.

● **High Resolution**
Adopt high performance sensor, providing high definition and clear image.
● **High Transmission Performance**
Real-time transmission with high speed and long distance.
● **High Light Compensation (HLC)**
Mask and compensation the high light area.
● **DNR**
Reduce noise from brightness and color signal.
● **OSD**
Access the camera settings which can be clearly displayed through the main menu.
● **White Balance**
Adjust the color temperature according to the environment automatically.
● **ICR Auto Switch**
The filter will filter infrared light during the daytime and change to normal at night to ensure a high sensitivity and clear image.
● **AGC**
Adjust the gain of amplifier, enabling the camera to output the standard video signal in different lighting condition.
● **Wide Dynamic Range (WDR)**
When there are both very bright and very dark areas simultaneously in the field of view, this function will balance the brightness level and provide clear images.

● **Privacy Masking**

This function allows you to block or mask certain area of a scene for privacy purpose.

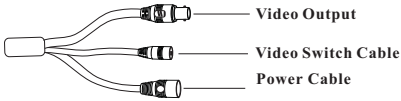
● **Backlight Compensation (BLC)**

When the back of the captured object is too much bright, you can set BLC for the captured object to make it clearer.

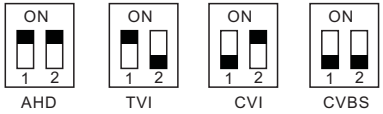
● **Motion Detection**

The alarm will be triggered when there are moving objects captured by the camera.

Cables



Video Switch: Remove the cover of the video switch cable and set the video output as below.



Installation

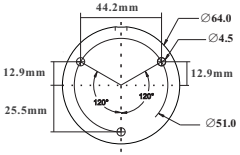
Before you start, please make sure that the wall or ceiling is strong enough to withstand three times the weight of the camera. Please install and use the camera in the dry environment.

You'd better install back the lens cover or lower dome less than 4 hours after removing it.

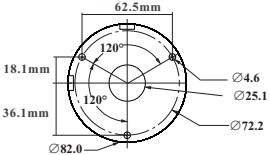
The mounting types of cameras are only for reference.

►Mounting for VLBT5W/VLBT6W

1. Drill the screw holes and the cable hole on the wall according to the drill template.



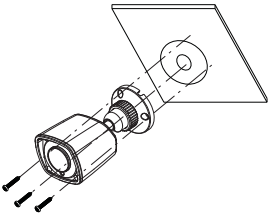
VLBT5W

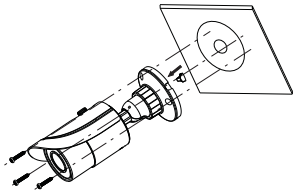


VLBT6W

2. Route and connect the cables .

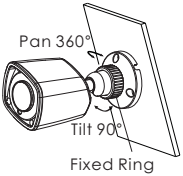
3. Secure the mounting base with camera to the wall with screws as shown below.

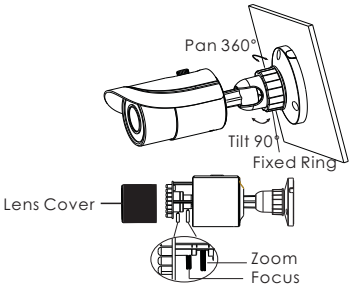




4. Bracket adjustment. Before adjustment, preview the image of the camera on a monitor and then loosen the fixed ring to adjust the view angle of the camera. Tighten the fixed ring after the adjustment.

5. Focus and zoom adjustment (If the camera you get is fixed lens, please skip this step). Remove the lens cover and then adjust the focus and zoom screws to get a clear image. Finally, tighten these two screws and the lens cover.



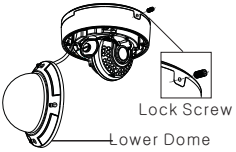


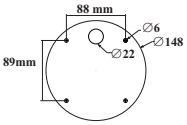
►Mounting for Dome Camera

● Mounting for VLDT6W

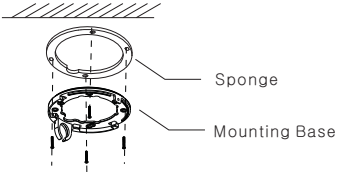
1. Loosen the screws to open the lower dome and then loosen the lock screw to remove the mounting base.

2. Attach the drill template to the place where you want to fix the camera and then drill 4 screw holes and 1 cable hole (if you want to route the cables through the mounting base) according to the drill template.

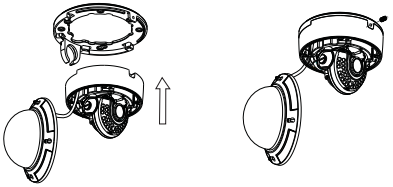




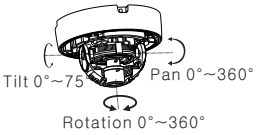
3. Route and connect the cables. And then secure the mounting base to the ceiling or wall with the screws provided.



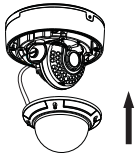
4. Fix the camera to the mounting base with the lock screw.



5. Three-axis adjustment. Before adjustment, preview the image of the camera on a monitor and then adjust the camera according to the figure below to get an optimum angle.

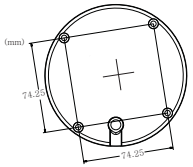


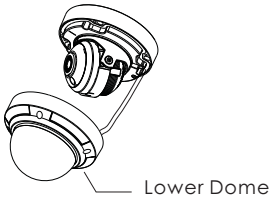
7. Install the lower dome back to the camera with the screws and remove the protection film softly to complete the installation.



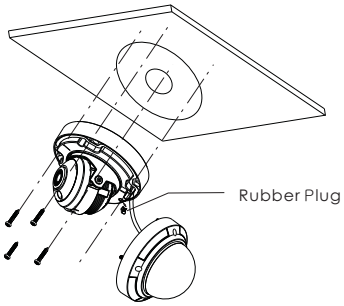
● Mounting for VLDT5W

1. Drill the screw holes and the cable hole on the wall according to the drill template.
2. Loosen the screws to remove the lower dome from the camera.

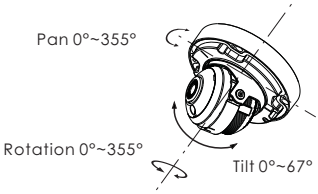


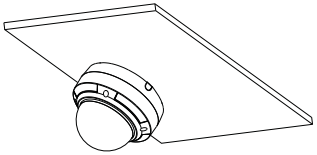


3. Route and connect the cables.
4. Secure the mounting base with camera to the wall with screws as shown below.



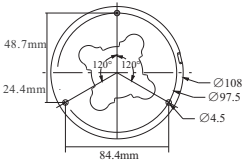
5. Three-axis adjustment. Before adjustment, preview the image of the camera on a monitor and then adjust the camera according to the figure below to get an optimum angle.
6. Install the lower dome back to the camera and secure it with the screws.

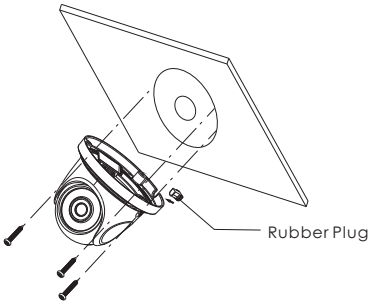




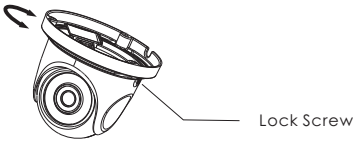
● Mounting for VLT7W

1. Drill the screw holes and the cable hole on the wall according to the drill template.
2. Route and connect the cables. Then secure the camera to the ceiling or wall with the screws provided.





3. Adjust the camera to obtain an optimum angle by loosening the lock screws. Before adjustment, preview the image of the camera on a monitor. Tighten the lock screws after you finish adjusting the view angle of the camera.



Specifications

Specifications \ Models	VLBT5W	VLBT6W	VLDT6M	VLD T5W	VLT7W
Camera					
Image Sensor	1/2.8" COMS				
Resolution	2MP				
Image size	1920×1080				
Video Output	AHD/TVI/CVI/CVBS (*camera comes defaulted to HD-TVI)				
Image System	PAL/NTSC				
Electronic Shutter	Auto; 1/50s~1/100000s(PAL);1/60s~1/100000s (NTSC)				
IR Distance (feet)	32.8~65.6	65.6~98.4	65.6~98.4	32.8~65.6	32.8~65.6
Frame Rate	30fps(60Hz),25fps(50Hz)				
Min. Illumination	Color:0.001lux@F1.2, AGC ON; B/W: 0lux with IR				
Lens	2.8mm	2.8~12mm	2.8~12mm (motorized)	2.8mm	2.8mm
Lens Mount	M12	D14	D14	M12	M12
S/N Ratio	≥ 52dB(AGC OFF)				
Ingress Protection	IP66	IP66	IP66&IK10	IP66&IK10	IP66
Functions					
Function Control	OSD (UTC control)				
Day &Night	ICR				
WDR	Yes (120dB)				
Digital NR	Yes				
Global Exposure	Yes				
Central Exposure	Yes				
AGC	Yes				
Auto White Balance	Yes				
BLC	Yes				
Front Light Compensation	Yes				
Sharpness	Yes				
Smart IR	Yes				
Defogging	Yes				
HLC	Yes				
Image Setting	Yes				
Defect Correction	Auto				
Others					
Power Supply	DC12V (± 10%)				
Power Consumption	IR OFF: < 1W; IR ON : < 4W				
Working Environment	-4 °F ~ 122 °F, 10 % ~ 90 %(relative humidity)				
Dimensions (inch)	Φ 2.76×6.14	Φ3.43× 8.62	Φ5.90 × 4.49	Φ4.61 × 3.54	Φ3.43×4.25