



V5B1/V5T1/V5D1/V5B1M/V5D1M/V5T1M

# 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.

### ● 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.

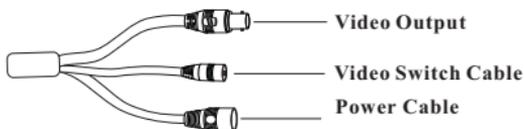
### ● Wide Dynamic Range (WDR)

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.

### ● 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.

# Cables



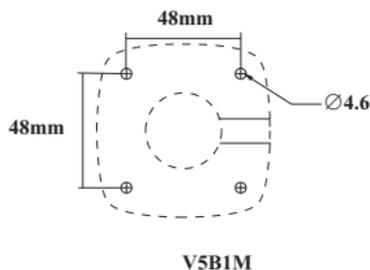
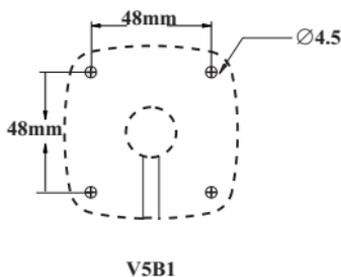
Video Switch: Four video output modes can be optional--AHD, TVI, CVI and CVBS  
(a) remove the cover of the video switch cable; (b) hold and press the button in the video switch cable for 5 seconds to switch the current video output.

## Installation

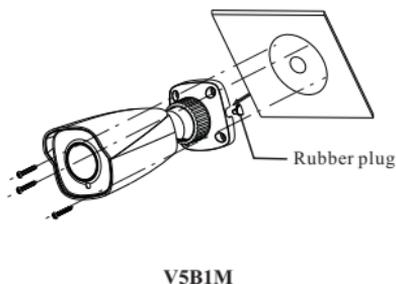
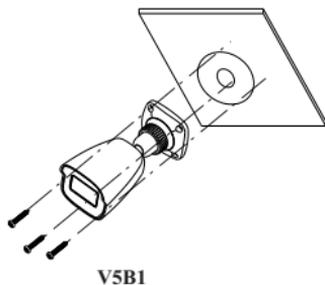
Before you start, please make sure that the wall or ceiling is strong enough to withstand three times the weight of the camera. Please install and use the camera in the dry environment.  
You'd better install back the lens cover or lower dome less than 4 hours after removing it.  
The mounting types of cameras are only for reference.

### ► Mounting for V5B1/V5T1

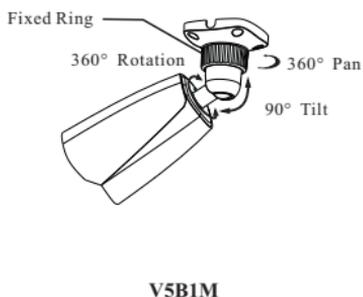
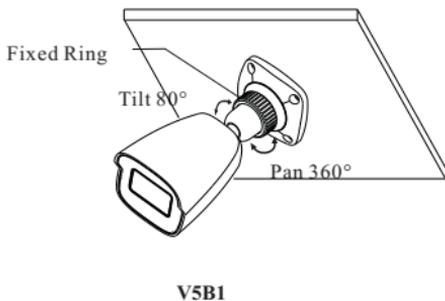
1. Drill the screw holes and the cable hole on the wall according to the drill template.



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



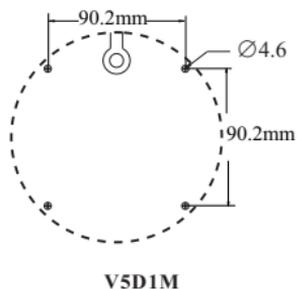
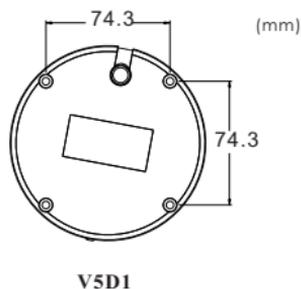
4. Bracket adjustment. Before adjustment, preview the image of the camera on a monitor and then loosen the fixed ring to adjust the view angle of the camera. Tighten the fixed ring after the adjustment.



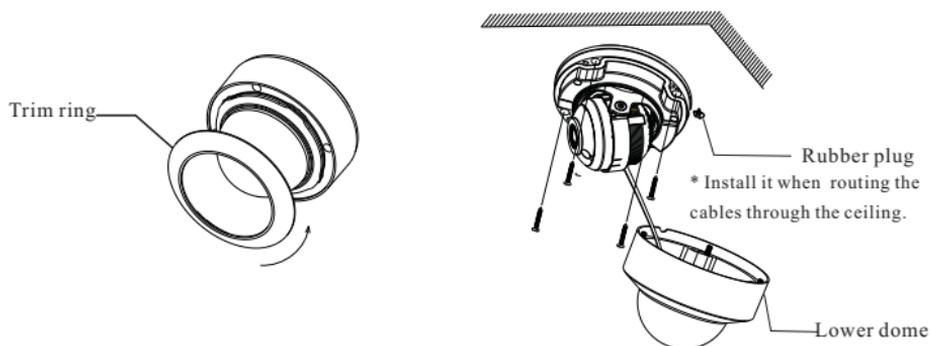
## ► Mounting for Dome Camera

### ● Mounting for V5D1/V5D1M

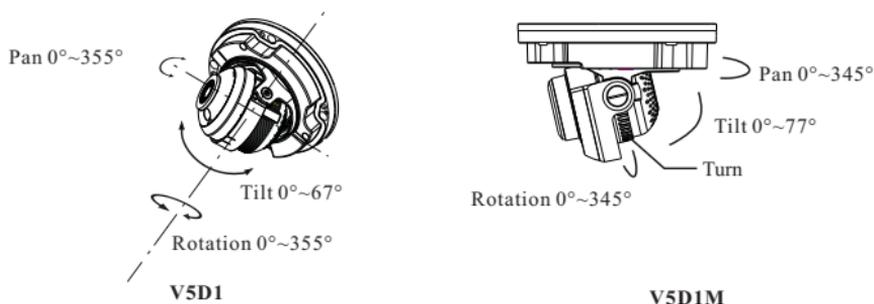
1. Attach the drill template to the place where you want to fix the camera and then drill the screw holes and the cable hole on the wall according to the drill template.



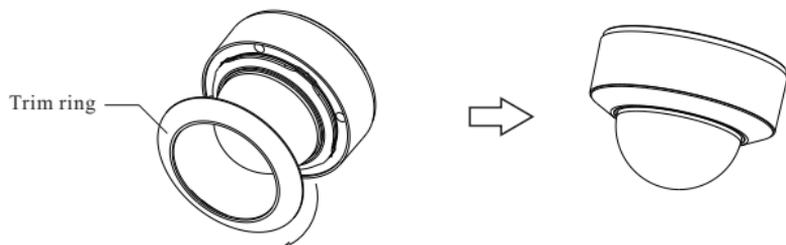
2. Rotate the trim ring anticlockwise to remove it from the camera.
3. Loosen the screws to open the lower dome. Then route and connect the cables.
4. Secure the camera to the wall with screws provided as shown below.



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.

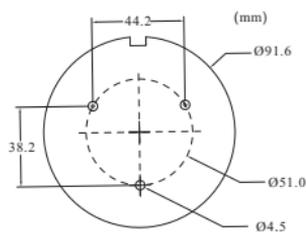


6. Install the lower dome back to the camera and fix it with screws. Then put the trim ring onto the lower dome and then rotate it clockwise until it is locked. Finally, remove the protection film softly.

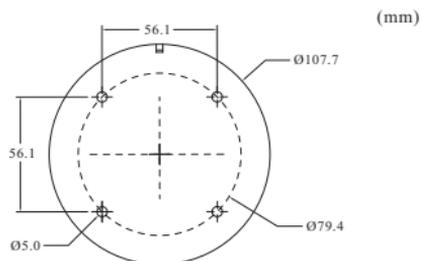


## ● Mounting for V5T1/V5T1M

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



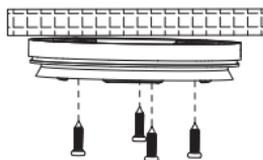
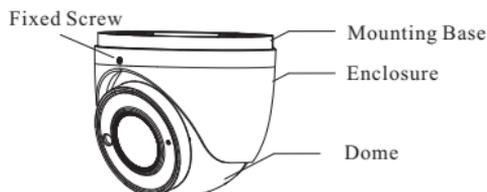
**V5T1**



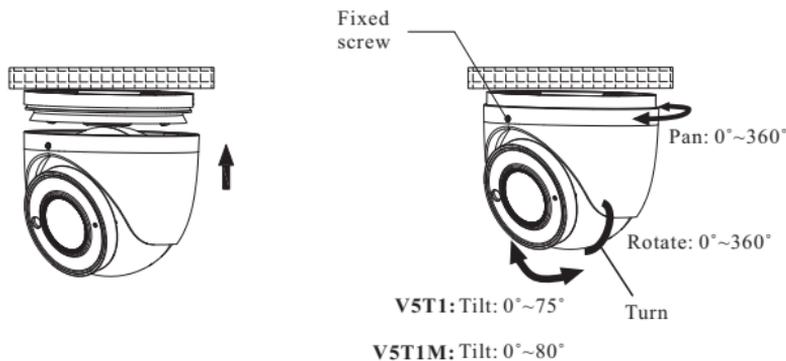
**V5T1M**

2. Loosen the fixed screw to disassemble the camera.

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



4. Install the dome and enclosure to the mounting base and then adjust the dome to obtain an optimum view angle. Finally, secure the camera with the fixed screw.



# Specifications

Specifications \ Models	V5B1	V5B1M	V5D1
<b>Camera</b>			
Image Sensor	1/2.7" CMOS		
Resolution	5MP		
Image size	2560×1936		
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)	65.6~98.4	98.4~164.0	65.6~98.4
Frame Rate	20fps		
Min. Illumination	Color:0.01lux@F1.2, AGC ON; B/W: 0lux with IR		
Lens	2.8mm	2.8~12mm (motorized)	2.8mm
Lens Mount	M12	D14	M12
S/N Ratio	≥ 52dB(AGC OFF)		
Ingress Protection	IP67	IP67	IP67&IK10
<b>Functions</b>			
Function Control	OSD (UTC control)		
Day & Night	ICR		
WDR	Yes		
Digital NR	Yes		
AGC	Yes		
Auto White Balance	Yes		
Defog	No		
BLC	Yes		
LSC	Yes		
Mirror	Yes		
Sharpness	Yes		
Smart IR	Yes		
Image Setting	Yes		
Defect Correction	Auto		
<b>Others</b>			
Power Supply	DC12V (± 10%)		
Power Consumption	IR OFF: < 1W; IR ON : < 4W	IR OFF: < 1W; IR ON : < 6W	IR OFF: < 1W; IR ON : < 4W
Working Environment	-22 °F ~ 122 °F, 10 % ~ 90 %(relative humidity)		
Dimensions (inch)	6.6×2.9×2.9	8.6×3.2×3.2	Φ4.7 × 3.5

Specifications \ Models	V5D1M	V5T1	V5T1M
<b>Camera</b>			
Image Sensor	1/2.7" CMOS		
Resolution	5MP		
Image size	2560×1936		
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)	98.4~164.0	65.6~98.4	98.4~164.0
Frame Rate	20fps		
Min. Illumination	Color:0.01lux@F1.2, AGC ON; B/W: 0lux with IR		
Lens	2.8~12mm (motorized)	2.8mm	2.8~12mm (motorized)
Lens Mount	D14	M12	D14
S/N Ratio	≥ 52dB(AGC OFF)		
Ingress Protection	IP67&IK10	IP67	IP67
<b>Functions</b>			
Function Control	OSD (UTC control)		
Day & Night	ICR		
WDR	Yes		
Digital NR	Yes		
AGC	Yes		
Auto White Balance	Yes		
Defog	No		
BLC	Yes		
LSC	Yes		
Mirror	Yes		
Sharpness	Yes		
Smart IR	Yes		
Image Setting	Yes		
Defect Correction	Auto		
<b>Others</b>			
Power Supply	DC12V (± 10%)		
Power Consumption	IR OFF: < 1W; IR ON : < 6W	IR OFF: < 1W; IR ON : < 4W	IR OFF: < 1W; IR ON : < 6W
Working Environment	-22 °F ~ 122 °F, 10 % ~ 90 %(relative humidity)		
Dimensions (inch)	Φ5.6 × 3.9	Φ3.7 × 3.3	Φ4.4 × 3.5

**Model:** V5B1/V5B1M/V5D1/V5D1M/V5T1/V5T1M

**Federal Communications Commission (FCC) Statements**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

**FCC Responsible Party:**

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