speco technologies®

H8D8M/H8B8M/H8T8M

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.

■ Do not expose the unit to heavy stress, violent vibration or long-term exposure to water and humidity during transportation, storage, and/or installation.

■ Do not install near sources of heat.

■ Only install the product in environments inside the specification operating temperature and humidity range.

■ Do not install the camera near power lines, radar equipment or other electromagnetic radiation.

■ Do not block any ventilation openings if any.

■ Use all the weatherproofing hardware requirement to minimize weather intrusion.

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.

● **AGC**

Adjust the gain of amplifier, enabling the camera to output the standard video signal in different lighting condition.

● **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.
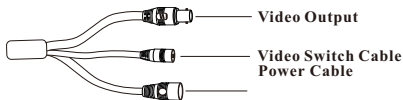
• Backlight Compensation (BLC)

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.
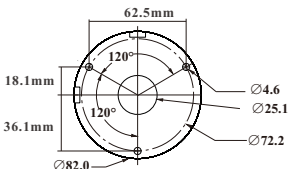
Installation

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.

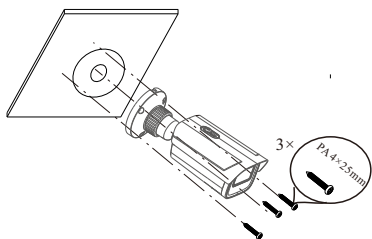The mounting types of cameras are only for reference.

►Mounting for H8B8M

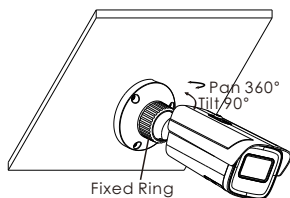1. Drill the screw holes and the cable hole on the wall according to the drill template.

2. Route and connect the cables .

3. Secure the mounting base with camera to the wall with screws as shown below.
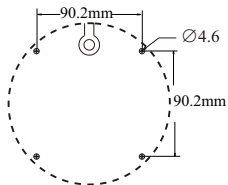
$3 \times$ PA 4×25mm

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.
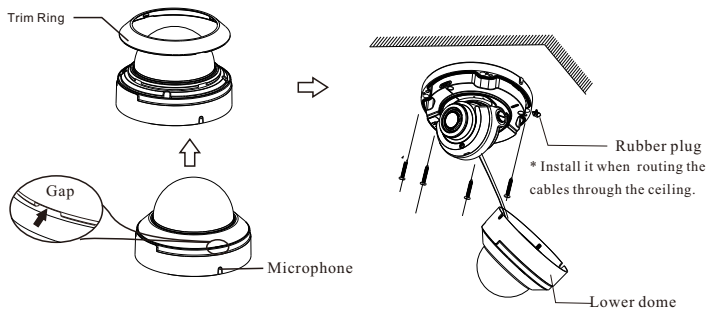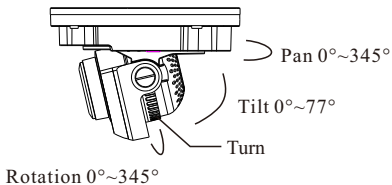

Pan 360°
Tilt 90°

Fixed Ring

►Mounting for H8D8M

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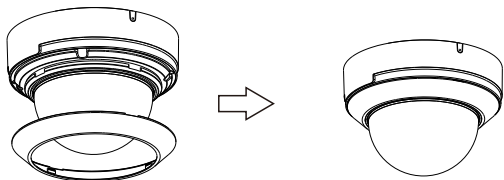

90.2mm

⌀4.6

90.2mm

2. Align the gap of the trim ring with the microphone by turning the trim ring with fingers. Then remove the trim ring from the gap of 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.
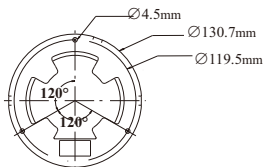

6. Install the lower dome back to the camera and fix it with screws. Then put the trim ring onto the lower dome and then rotate it clockwise until it is locked. Finally, remove the protection film softly.
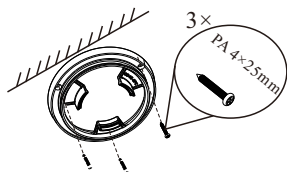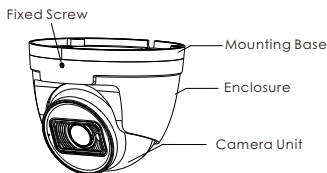
►Mounting for H8T8M

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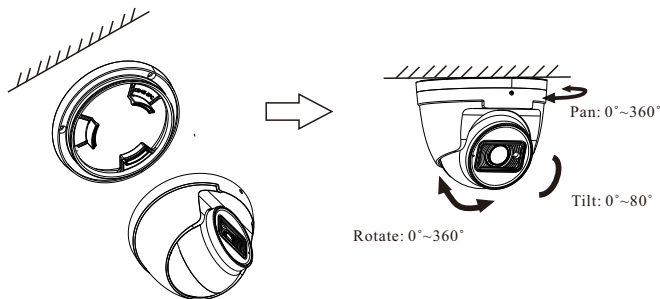

∅4.5mm
∅130.7mm
∅119.5mm
120°
120°

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.

Fixed Screw
Mounting Base
Enclosure
Camera Unit

3×
PA 4×25mm

4. Install the camera unit 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.

Pan: 0°~360°

Tilt: 0°~80°

Rotate: 0°~360°

Specifications

Models / Specifications	H8B8M	H8D8M	H8T8M
Camera			
Image Sensor	1/2.5" CMOS		
Resolution	8MP		
Image size	3840×2160		
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)	98~164	65~98	98~164
Frame Rate	15fps		
Min. Illumination	Color:0.01lux@F1.2, AGC ON; B/W: 0lux with IR		
Lens	2.8~12mm (motorized)		
Lens Mount	D14		
S/N Ratio	≥ 52dB(AGC OFF)		
Ingress Protection	IP67	IP67&IK10	IP67
Functions			
Function Control	OSD (UTC control)		
Day &Night	ICR		
WDR	No		
Digital NR	Yes		
AGC	No		
Auto White Balance	Yes		
Defog	No		
BLC	Yes		
Contrast	Yes		
Saturation	Yes		
Sharpness	Yes		
Smart IR	Yes		
Image Setting	Yes		
Defect Correction	Auto		
Others			
Power Supply	DC12V (± 10%)		
Power Consumption	IR OFF: < 2W; IR ON : < 5.5W	IR OFF: < 2W; IR ON : < 5W	IR OFF: < 2W; IR ON : < 4.5W
Working Environment	-22 °F ~ 122 °F, 10 % ~ 90 %(relative humidity)		
Dimensions (inch)	8.66×3.39×3.38	Φ5.61 × 3.95	Φ4.21 × 5.16

Model: H8B8M/H8D8M/H8T8M