SMARTWITNESS

CP-S   CP-R   CP-V   CP-VA   CP-P

CP Series | Vehicle Cameras

User Manual

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Safety Advice

⚠ Please unpack the box carefully and identify that all the parts are present.

⚠ Make sure you use the recommended power input. Damage caused to the camera by incorrect voltage is not covered by the warranty.

⚠ Do not attempt to open the casing to access the camera. Damage caused to the camera by tampering with the camera casing is not covered by the warranty.

What's in the box   *(applies to all models)*

• Camera
• Small Screw Tool

Introduction

The CP-S is a 960H Analog Camera.

It features a 2.88mm lens and has a viewing angle between 110-120°.

Adjusting the Camera

To adjust the angle of the camera, use the screw tool provided and unscrew the screws located on the sides of the camera. There are 3 in total.

To unscrew, turn anticlockwise to open the screw from the base.

Then adjust the camera, remove the protective bracket holding it in place.

Adjusting the Camera Continued

Then adjust the camera manually with your hand to your preferred position.

After you have completed your adjustment, replace the protective bracket

Then close the casing of the camera and screw back the screws.

Mounting the camera

To mount the camera, remove the screws from all sides

Drill a hole in the centre of the camera and screw it into your desired location.

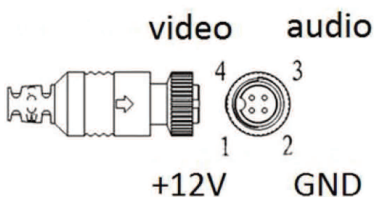Replace the camera and screw in the screws.

Specification   CP-S

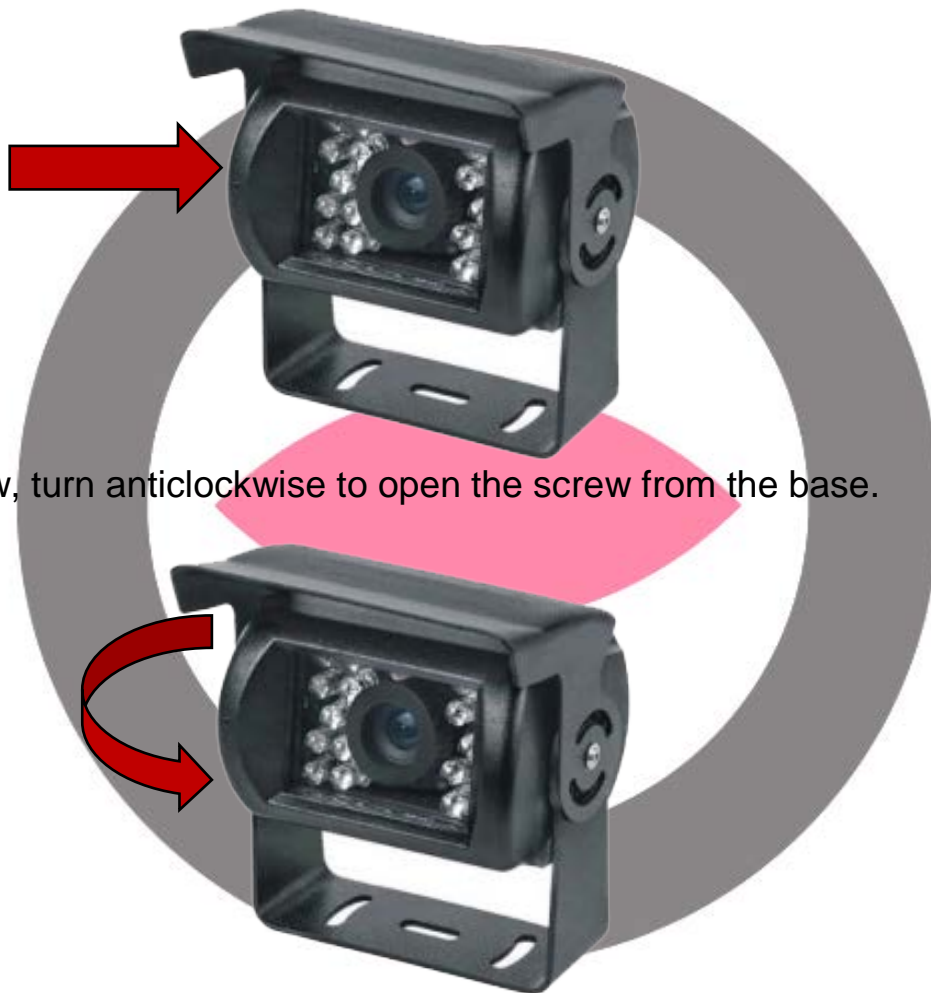|	
Video System	PAL
Pick Up Element	Colour Sony 1/3" CCD Image Sensor
Image Signal Process	Digital Signal Processing System
Lens / Viewing Angle	2.8mm - 96°
Number Of Pixel	960 x 576
Effective Pixels	960 (H)× 576 (V)
Resolution	Analog 700TVL
Audio	No
Power Supply	DC 12 ± 1A, Aviator connector to MDVR
Power Consumption	5 Watts
Scanning System	2:1 Interlace
Sensitivity	0.01 Lux (IR 10m)
S/N Ratio	Max 62 dB
Auto Gain Control	Auto
Mirroring	Yes
White Balance	Auto
Electronic Shutter	Auto: 1/50 S to 1/100,000 S (Pal)
Output	1 Vp-p Composite Video Output, 75 OHMS, Aviator connector to MDVR
Operating Temperature	-10°C ~ +60°C
Dimensions (HxWxD)	89 x 77 x 63mm
Weight	215g
IP Rating	IP69K

video   audio

4   3

1   2

+12V   GND

Introduction

The CP-R is a 960H Analog Rear view Mirrored camera.

Adjusting the Camera

To adjust the angle of the dome camera, use the screw tool provided and unscrew the screws located on the sides of the camera.

To unscrew, turn anticlockwise to open the screw from the base.

Then adjust the camera by moving the lower bracket.

Specification — CP-R

Specification	CP-R
Video System	PAL
Pick Up Element	Colour Sony 1/3" CCD Image Sensor
Image Signal Process	Digital Signal Processing System
Lens / Viewing Angle	2.8mm - 96°
Number Of Pixel	960 x 576
Effective Pixels	960 (H)× 576 (V)
Resolution	Analog 700TVL
Audio	No
Power Supply	DC 12 ± 1A, Aviator connector to MDVR
Power Consumption	5 Watts
Scanning System	2:1 Interlace
Sensitivity	0.01 Lux (IR 10m)
S/N Ratio	Max 62 dB
Auto Gain Control	Auto
Mirroring	Yes
White Balance	Auto
Electronic Shutter	Auto: 1/50 S to 1/100,000 S (Pal)
Output	1 Vp-p Composite Video Output, 75 OHMS, Aviator connector to MDVR
Operating Temperature	-10°C ~ +60°C
Dimensions (HxWxD)	89 x 77 x 70mm
Weight	285g
IP Rating	IP69K
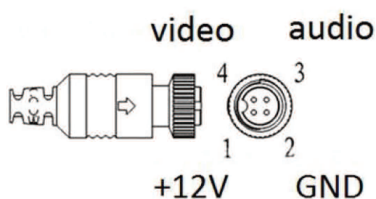
Introduction

The CP-V is a 960H Analog Dome Camera.

It features a 2.88mm lens and has a viewing angle between 90-100°.

Adjusting the Camera

To adjust the angle of the dome camera, use the screw tool provided and unscrew the screws located on the sides of the camera. There are 3 in total.

To unscrew, turn anticlockwise to open the screw from the base.

Then adjust the camera by turning it to the required position then replace the bottom bracket.

Mounting the Camera Continued

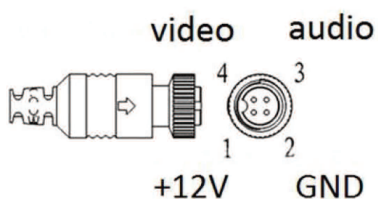Get the correct drill bit for the size of the holes which you need to drill.

After drilling, feed through the camera wires into the base, as shown above. Then screw back the remaining screws.

Specification CP-V

Video System	PAL
Pick Up Element	Colour Sony 1/3" CCD Image Sensor
Image Signal Process	Digital Signal Processing System
Lens / Viewing Angle	2.8mm - 96°
Number Of Pixel	960 x 576
Effective Pixels	960 (H)× 576 (V)
Resolution	Analog 700TVL
Audio	No
Power Supply	DC 12 ± 1A, Aviator connector to MDVR
Power Consumption	5 Watts
Scanning System	2:1 Interlace
Sensitivity	0.01 Lux (IR 10m)
S/N Ratio	Max 62 dB
Auto Gain Control	Auto
Mirroring	No
White Balance	Auto
Electronic Shutter	Auto: 1/50 S to 1/100,000 S (Pal)
Output	1 Vp-p Composite Video Output, 75 OHMS, Aviator connector to MDVR
Operating Temperature	-10°C ~ +60°C
Dimensions (HxWxD)	82 x 86 x 86mm
Weight	215g
IP Rating	IP66

Introduction

The CP-VA is a Internal only 960H Analog Dome Camera with built in audio

It features a 2.88mm lens and has a viewing angle between 90-100°.

Adjusting the Camera

To adjust the angle of the dome camera, use the screw tool provided and unscrew the screws located on the sides of the camera. There are 3 in total.

To unscrew, turn anticlockwise to open the screw from the base.

Then adjust the camera by turning it to the required position then replace the bottom bracket.

Mounting the Camera Continued

Get the correct drill bit for the size of the holes which you need to drill.

After drilling, feed through the camera wires into the base, as shown above. Then screw back the remaining screws.

Specification   CP-VA

Video System	PAL
Pick Up Element	Colour Sony 1/3" CCD Image Sensor
Image Signal Process	Digital Signal Processing System
Lens / Viewing Angle	2.8mm - 96°
Number Of Pixel	960 x 576
Effective Pixels	960 (H)× 576 (V)
Resolution	Analog 700TVL
Audio	Built-in
Power Supply	DC 12 ± 1A, Aviator connector to MDVR
Power Consumption	5 Watts
Scanning System	2:1 Interlace
Sensitivity	0.01 Lux (IR 10m)
S/N Ratio	Max 62 dB
Auto Gain Control	Auto
Mirroring	No
White Balance	Auto
Electronic Shutter	Auto: 1/50 S to 1/100,000 S (Pal)
Output	1 Vp-p Composite Video Output, 75 OHMS, Aviator connector to MDVR
Operating Temperature	-10°C ~ +60°C
Dimensions (HxWxD)	50 x 69 x 69mm
Weight	310g
IP Rating	IP66
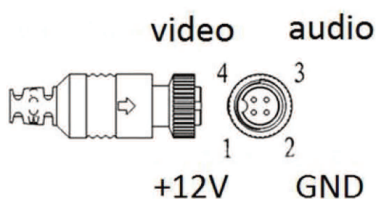
Introduction

The CP-P is a 960H Analog Internal Dome Camera.

It features a 2.88mm lens and has a viewing angle between 90-100°.

Adjusting the Camera

To adjust the angle of the dome camera, use the screw tool provided and unscrew the screws located on the sides of the camera. There are 3 in total.

To unscrew, turn anticlockwise to open the screw from the base.

Then adjust the camera, remove the protective bracket holding it in place.

Adjusting the Camera Continued

Then adjust the camera manually with your hand to your preferred position.

After you have completed your adjustment, replace the protective bracket

Then close the casing of the camera and screw back the screws.

Specification   CP-P

Video System	PAL
Pick Up Element	Colour Sony 1/3" CCD Image Sensor
Image Signal Process	Digital Signal Processing System
Lens / Viewing Angle	2.8mm - 96°
Number Of Pixel	960 x 576
Effective Pixels	960 (H)× 576 (V)
Resolution	Analog 700TVL
Audio	No
Power Supply	DC 12 ± 1A, Aviator connector to MDVR
Power Consumption	5 Watts
Scanning System	2:1 Interlace
Sensitivity	0.01 Lux (IR 10m)
S/N Ratio	Max 62 dB
Auto Gain Control	Auto
Mirroring	No
White Balance	Auto
Electronic Shutter	Auto: 1/50 S to 1/100,000 S (Pal)
Output	1 Vp-p Composite Video Output, 75 OHMS, Aviator connector to MDVR
Operating Temperature	-10°C ~ +60°C
Dimensions (HxWxD)	63 x 118 x 118mm
Weight	270g
IP Rating	None

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