

Haloview

User Manual



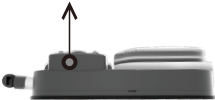


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PRODUCT OVERVIEW

| | | |
|---|---|---|
| CA112 Camera <input type="checkbox"/> | CA115 Camera <input type="checkbox"/> | CA116 Camera <input type="checkbox"/> |
|  |  |  |

PAIR BUTTON

| | | |
|--|---|---|
|  |  |  |
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INSTALLATION

● CA112 Camera

Ca112 Left Side/Right Side Camera Package Contents:

1. Manual
2. 3dBi 2.4G Antennas x 2PCS
3. 410 self-tapping self-drilling screws M4.2*19mm (10PCS)
4. Terminal Cap x 8PCS

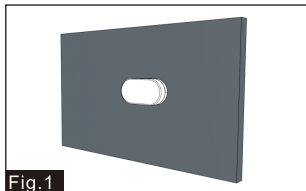


Fig.1

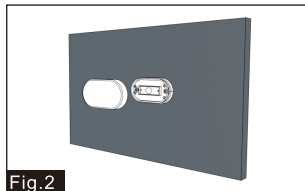


Fig.2

Figure1/Figure2 Remove Marker Light From vehicle

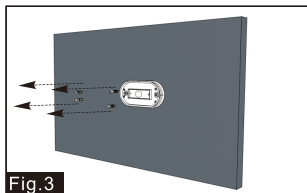


Figure3: Unscrew the LED Marker Light

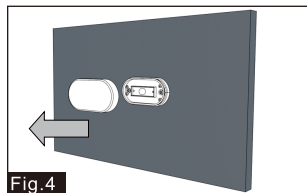


Figure4: Remove the marker light and pull out the cables

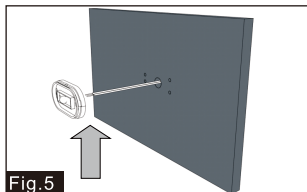


Figure5: Cutting the cables by a plier

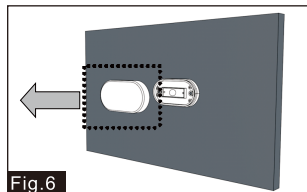


Figure6: Stripping the cables to expose the conductive core

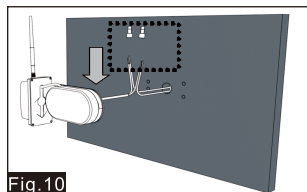
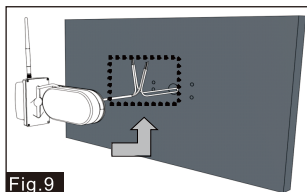
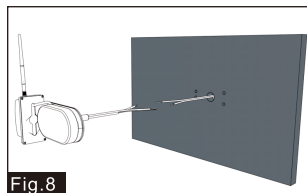
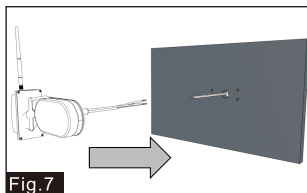


Figure7/Figure8/Figure9: Ensure correct polarity when wiring the cables.
Red + Black -

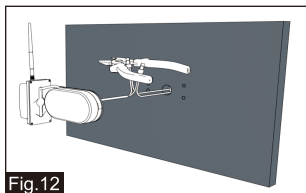
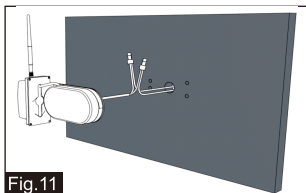


Figure10/Figure11: Wire connections and terminals must be sealed and waterproof.

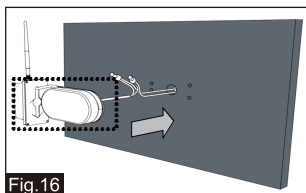
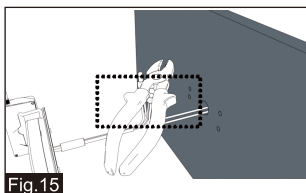
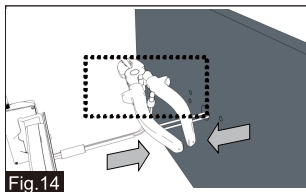
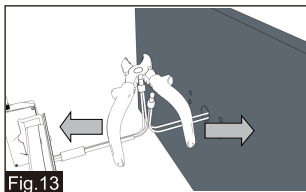
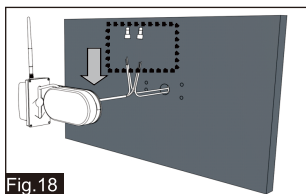
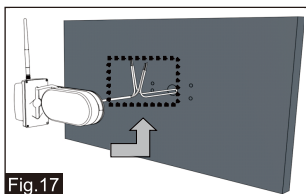


Figure12/Figure13/Figure14/Figure15:
Clamp the terminal tightly to make sure they are sealed and waterproof.

Figure16: Put the wires and terminals into hole and align the camera to screw holes.



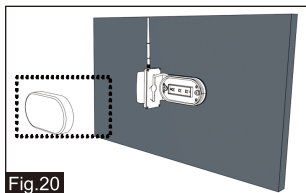
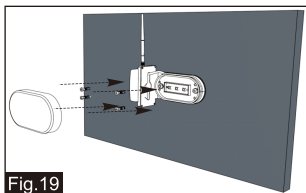


Figure17/Figure18: Remove the LED cover by straight screwdriver

Figure19: Secure the LED base on the vehicle wall using the four self-tapping screws.

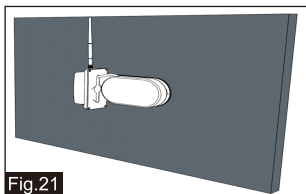
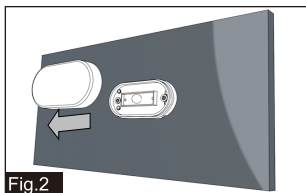
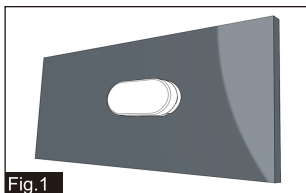


Figure20/Figure21: Replace the LED cover. Installation done.

● CA115 Camera

CA115 Rear Light Camera Package Contents:

1. Manual
2. 3dBi 2.4G Antenna x 1PC
3. PB Stainless steel flat tail screws M2.6*8mm (5PCS)
4. PA Stainless steel Philip's head screw M4*18 (6PCS)
5. Terminal Cap x 4PCS



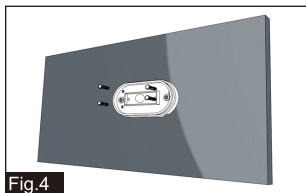
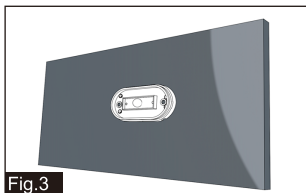


Figure1/Figure2/Figure3: Remove Rear Light From vehicle by straight screwdriver

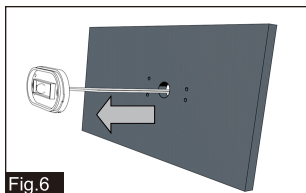
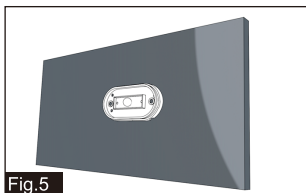


Figure6: Remove the rear light and pull out the cables

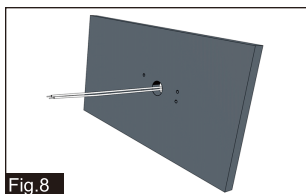
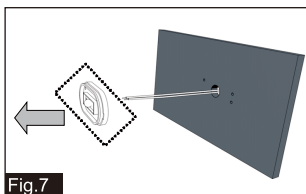


Figure7/Figure8: Cutting the cables by a plier and stripping the cables to expose the conductive core

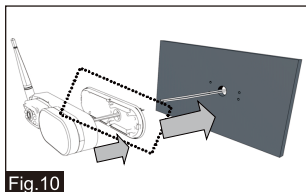
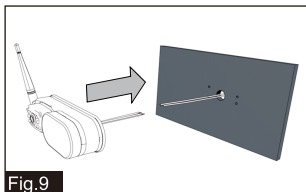


Figure9/Figure10/Figure11: Secure the rear light camera base on the vehicle wall, aligning to the pre-install mounting holes.

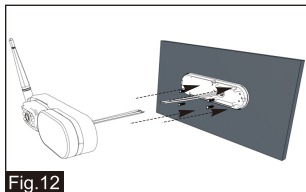
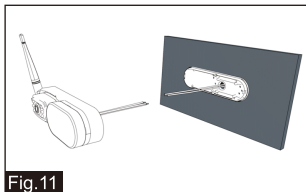


Figure12/Figure13: Secure the base with four provided screws.

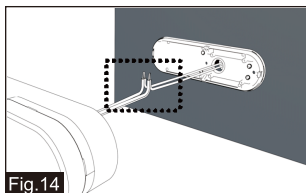
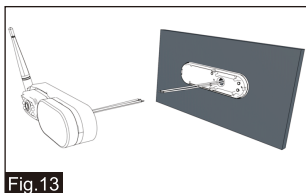


Figure6: Remove the rear light and pull out the wires

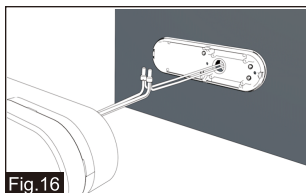
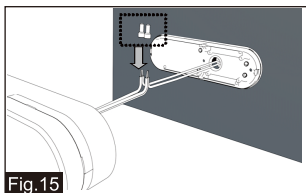


Figure15/Figure16: Wire connections and terminals must be sealed and waterproof.

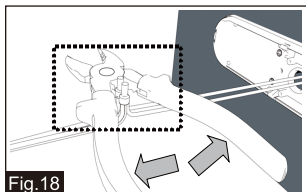
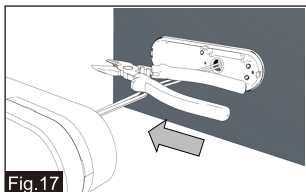


Figure17/Figure18/Figure19: Clamp the terminal tightly to make sure they are sealed and waterproof.

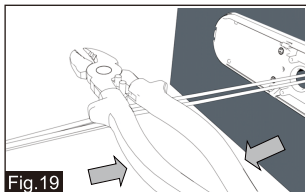


Fig.19

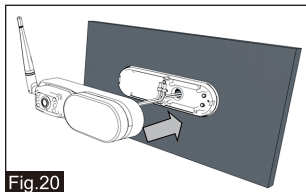


Fig.20

Figure17/Figure18/Figure19: Clamp the terminal tightly to make sure they are sealed and waterproof.

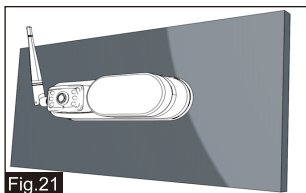


Fig.21

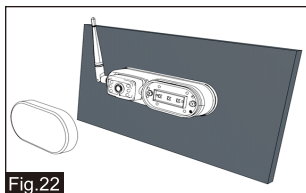


Fig.22

Figure20/Figure21: Put the wires and terminals into hole and fasten the rear light camera into base.

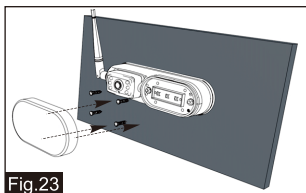


Fig.23

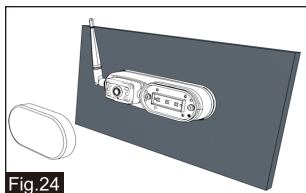


Fig.24

Figure22/23: Remove the cover of rear light camera and secure the base with four provided screws.

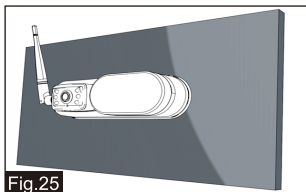


Fig.25

Figure24/Figure25: Replace the cover. Installation done.

● **CA116 Camera**

CA116 Rear Camera Package Contents:

1. Manual
2. 3dBi 2.4G Antenna x 1PC
3. 3.5mm to DC power cable x 1PC
4. DC power cable to 2P wires x 1PC
5. PB Stainless steel flat tail screws M3*10mm (5PCS)
6. PA Stainless steel Philip's head screw M4*18 (5PCS)
7. Magnet Mount x 1PC (optional)
8. Torx screw 1PCS (optional)
9. Metal plate with 3M tape x 1PC (optional)

CA116 Installation

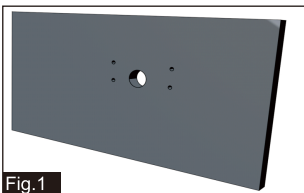


Fig.1

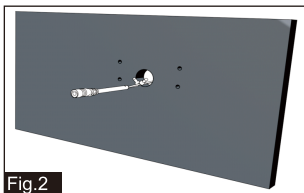


Fig.2

Figure1:

Select a suitable mounting position and drill a center hole on the vehicle wall.

Figure2:

For prewired trailer and fifthwheel, plug the 3.5mm to DC power cable. For unpwired trailer and fifthwheel, wire the DC to 2P cable with the vehicle circuit. Ensure correct polarity when wiring the cables. Red + Black

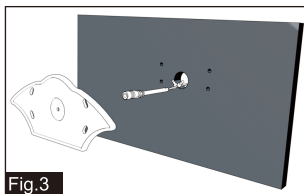


Fig.3

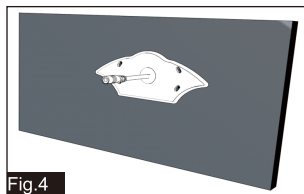


Fig.4

Figure3/Figure4: Feed the supplied power cable through gasket. Ensure the bare end of the cable goes into the vehicle and the flat side faces inward.

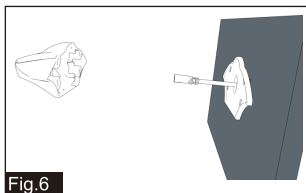
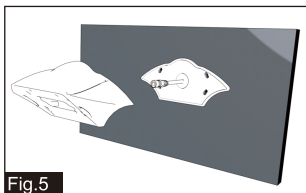


Figure5/Figure6/Figure7:
Fix the gasket and bracket to the vehicle Figure8, make sure the power cable is not wrapped or extruded.

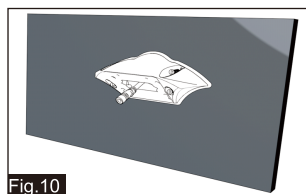
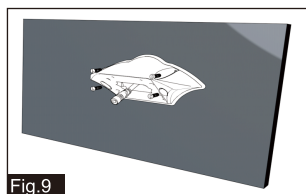
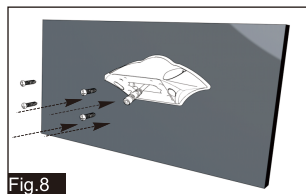
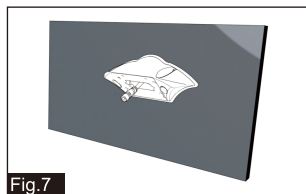
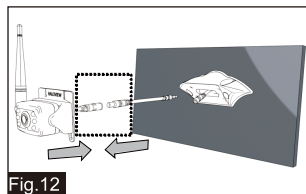
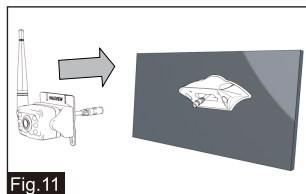


Figure8/Figure9/Figure10:
Make sure the sealing lip around the edge of the gasket is seated over the edge of bracket before fully tightening the provided screws.



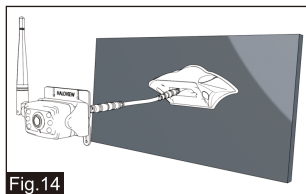
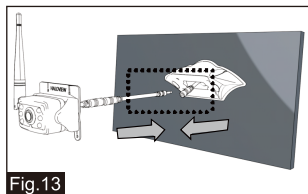


Figure11/Figure12/Figure13/Figure14: Pull out the power cable. Connect the 3.5mm to DC power cable. Connect the power cable to camera cable.

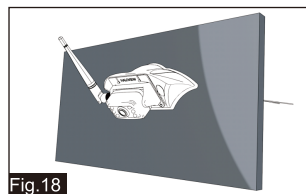
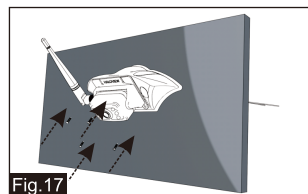
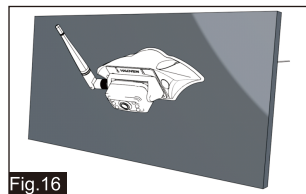
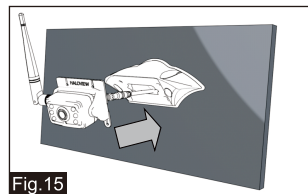


Figure17/Figure18: Secure the camera on bracket housing with provided screws. Make sure the connections and the camera antenna are secured tightly.

CA116 Installation without drilling holes

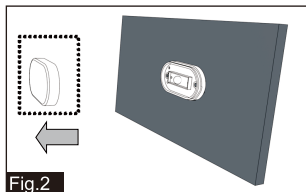
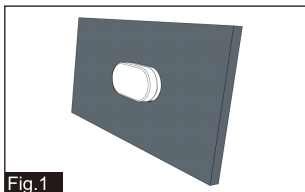


Figure1/Figure2: Remove LED From vehicle by straight screwdriver

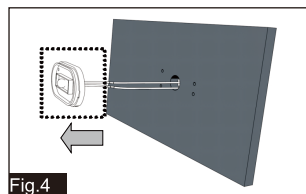
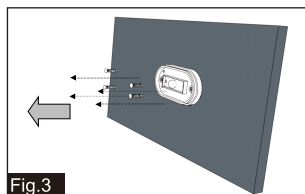


Figure1/Figure2: Remove LED From vehicle by straight screwdriver

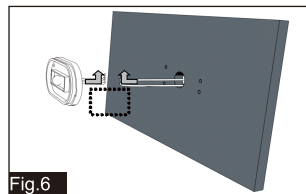
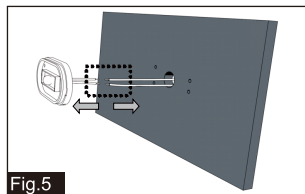


Figure5/Figure6: Cutting the cables by a plier and stripping the cables to expose the conductive core

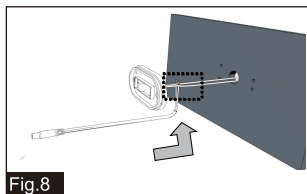
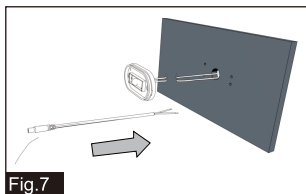


Figure7/Figure8: Ensure correct polarity when wiring the cables.
Red + Black -

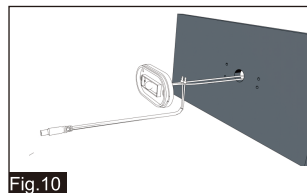
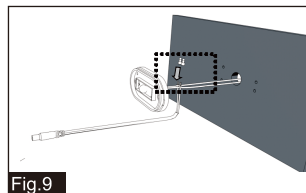


Figure9/Figure10: Clamp the terminal tightly to make sure they are sealed and waterproof.

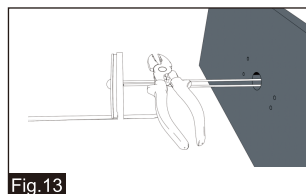
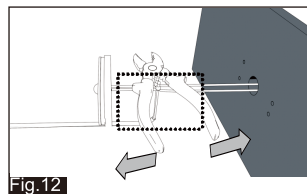
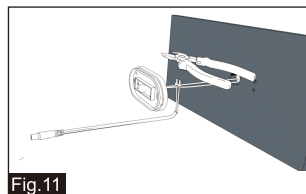


Figure11/Figure12/Figure13: Wire connections and terminals must be sealed securely and waterproof.

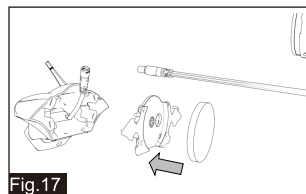
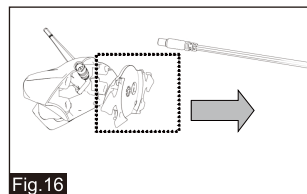
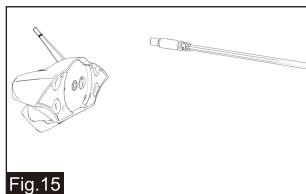
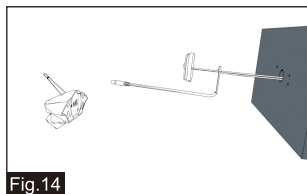


Figure14/Figure15/Figure16: Take out the base from bracket housing.

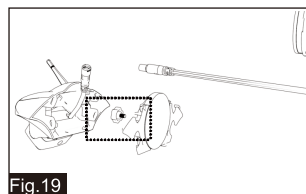
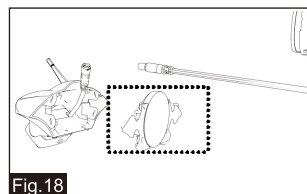
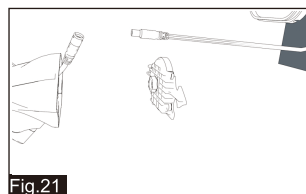
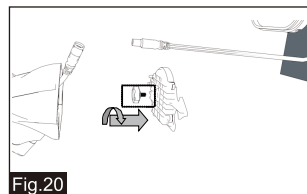


Figure17/Figure18: Insert magnet into base



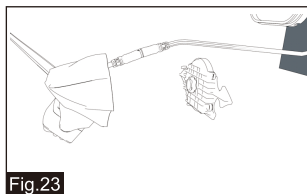
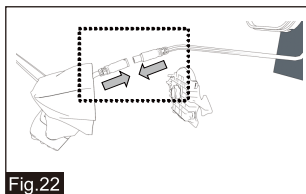


Figure19/Figure20/Figure21/Figure22: Lock the magnet with bracket by torx screw.

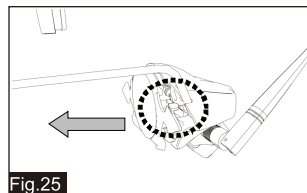
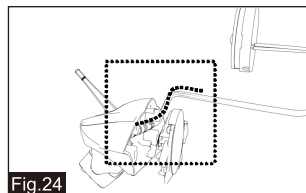


Figure23/Figure24: Connect the power cable to the camera cable. Bend the cable and tuck it into bracket housing.

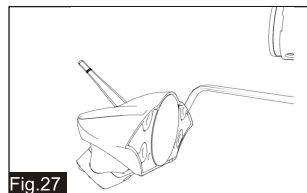
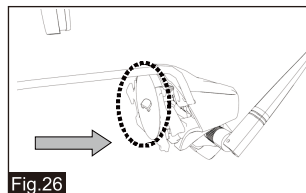


Figure25/Figure26: Remove the hole shield on the bracket base. Pull cables through the hole.

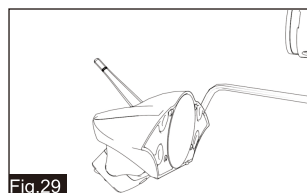
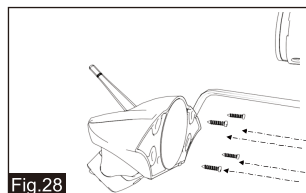


Figure27/Figure28: Secure the bracket housing and base with four provided screws.

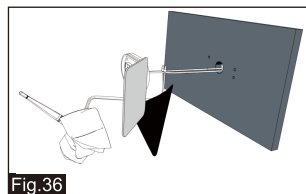
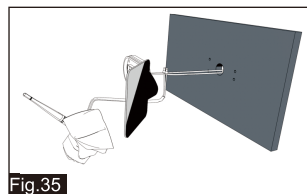
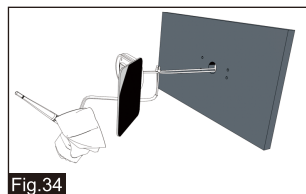
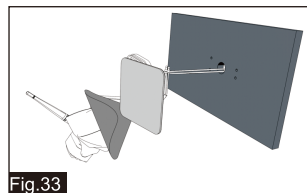
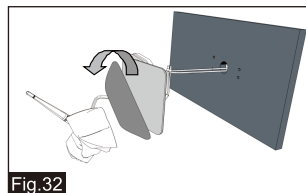
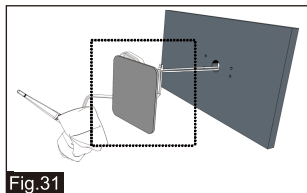
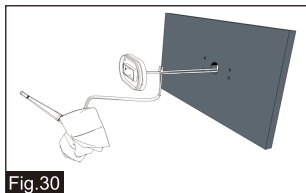


Figure31/Figure32/Figure33/Figure34/Figure35/Figure36:
Remove the protector of metal plate and 3M tape.

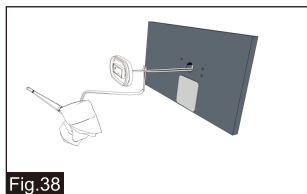
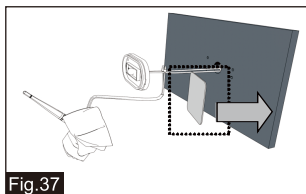


Figure37/Figure38: Stick the metal plate on flat surface of vehicle

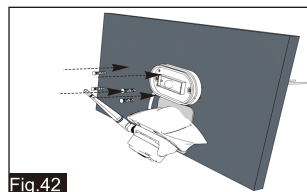
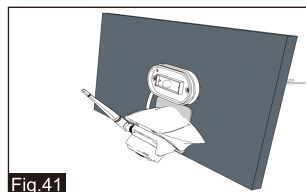
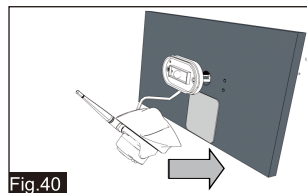
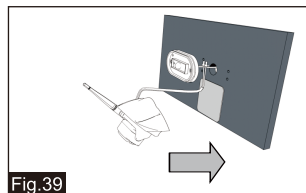


Figure39/Figure40/Figure41: Adsorb the camera on metal plate
Figure42: Put the LED back and secure it with screws.

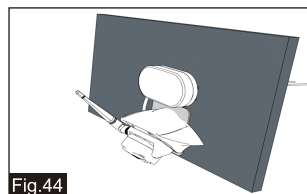
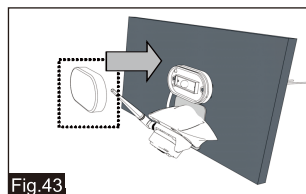


Figure43/Figure44: Replace the cover of LED. Installation done.

Connecting the Camera

Warning

When connecting wires, ensure the circuit is isolated by disconnecting the negative terminal on the battery.

- Ensure correct polarity when wiring the cables. RED + BLACK -.
- Wire connections and terminals must be sealed and waterproof.

The haloview camera system can be connect to an electrical power source via a 7 way connector

Wiring to running lights:

the camera will active when the running lights are switched on.

Wiring to reverse lights:

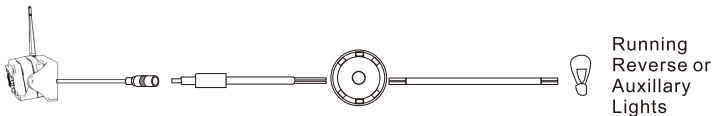
the camera will active when the vehicle engages reverse gear.

Connects to
Camera

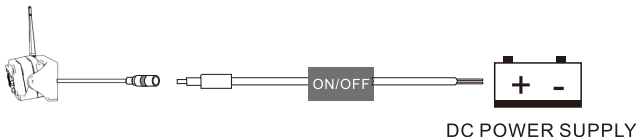


Connects to
12V/24V
Power Supply

Consult the vehicle's service manual for specific wiring color code.

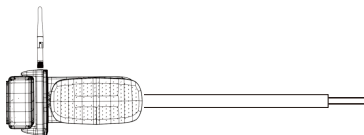


When wiring this camera directly to a 12V battery or converter in your RV, use an in-line switch on the power cable to power on or off your camera. This will enable this camera to be used when parked without a tow vehicle connected.



Connecting the Traffic Light

Route the power cable to the vehicle's 12/24V running light. The cable must not interfere with the safe operation of the vehicle.



Care and Cleaning

Though your monitor requires little care, you will still need to maintain its condition and performance by following the guidelines below.

- Keep your system away from excessive moisture, extreme heat or cold.
- Keep liquids away from the display.
Occasionally clean the surface of the monitor with a soft cloth moistened with water or glass cleaner.

Only clean the unit with a dry cloth. Do not clean the unit with strong chemical agents or abrasive cleaners. Never spill liquid of any kind on the product. Do not allow residue or liquids to enter any part of the appliance as this may cause risk of electrocution. Always disconnect from the mains before cleaning.

CAUTION: Never use solvents such as benzene, thinner or cleaners available commercially to clean the system.

CAMERA SPECIFICATION

| | | |
|---|----------------------------|--------|
| Image Device | 1/4" CMOS | |
| TV System | 25 f/s | 30 f/s |
| Effective Pixels | 1280×720 pixels | |
| Pixel Size | 3.0um×3.0um | |
| Video Output | 8bits YUV | |
| Scanning System | Progressive Scanning | |
| Sync. System | Internal | |
| Gamma Consumption | 0.45 | |
| AGC | Auto | |
| White Balance | Auto | |
| BLC | Auto | |
| Electronic Shutter | Electronic Rolling Shutter | |
| Operation Frequency | 2412-2467MHz | |
| Transmission Distance (barrier free) | 300m (984ft) | |
| Transmission Power | 18dBm | |
| Video Codec | H.264 | |
| Spread Spectrum | DSSS | |
| Latency | 200ms | |
| RF Bit Rate | 12Mbps | |
| Minimum Illumination | 0Lux | |
| Power Supply | DC10~32V | |
| Night vision distance | 8~10m | |
| Waterproof rating | IP69K | |
| Viewing Angle | 120° | |
| Audio | Yes | |
| Smart-IRCut | Yes | |
| Operating Temperature | -20℃ ~ 70℃, RH95%MAX. | |
| Storage Temperature | -30℃ ~ 80℃, RH95%MAX. | |

Haloview
www.haloview.com

