

# Haloview

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## User Manual



BTC128



BTC129

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## FCC WARNING

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. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:



- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

## PRODUCT OVERVIEW

|   |   |
|---|---|
| BTC128 Camera <input type="checkbox"/>  | BTC129 Camera <input type="checkbox"/>  |
|  |  |

## PAIR BUTTON

|   |   |
|---|---|
| <br>PAIR key | <br>PAIR key |
|---|---|

## INSTALLATION

### ● **BTC128 Camera**

BTC128 Rear Camera Package Contents:

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

## BTC128 Installation

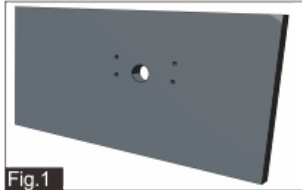


Fig.1

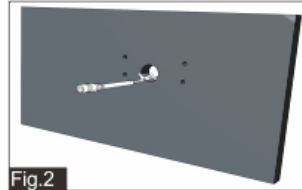


Fig.2

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

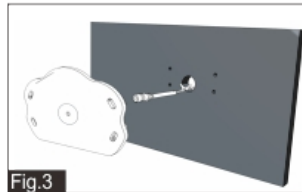


Fig.3

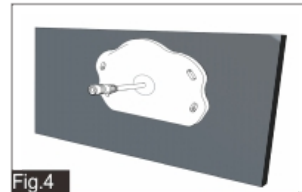


Fig.4

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.

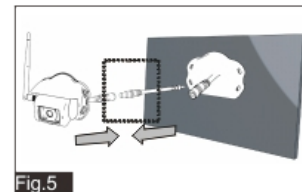


Fig.5

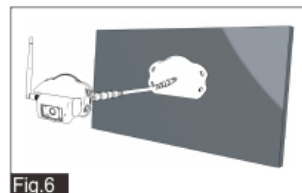


Fig.6

Figure5/Figure6/Figure7:

Fix the gasket and bracket to the vehicle, make sure the power cable is not wrapped or extruded.

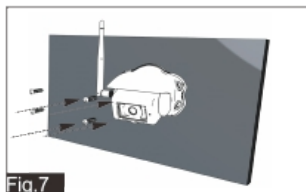


Fig.7

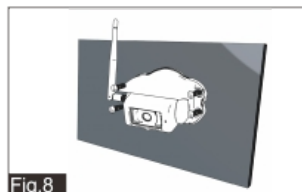


Fig.8

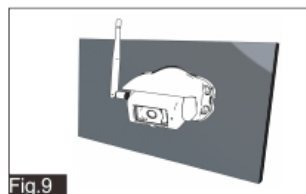


Fig.9

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

### ● BTC129 Camera

BTC129 Left Side/Right Side Camera Package Contents:

1. Manual
2. 3.5dBi 2.4G Antennas x 2PCS
3. 410 self-tapping self-drilling screws M4.2\*19mm (8PCS)
4. Terminal Cap x 6PCS

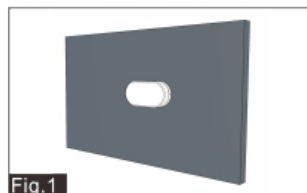


Fig.1



Fig.2

Figure1/Figure2 Remove Marker Light From vehicle

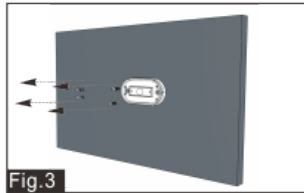


Fig.3

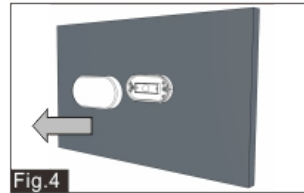


Fig.4

Figure3: Unscrew the LED Marker Light

Figure4: Remove the marker light and pull out the cables

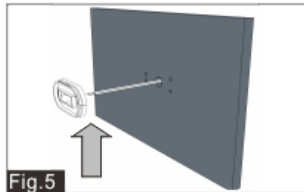


Fig.5

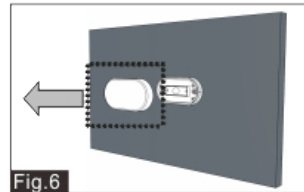


Fig.6

Figure5: Cutting the cables by a plier

Figure6: Stripping the cables to expose the conductive core

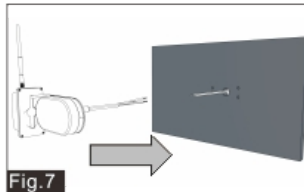


Fig.7

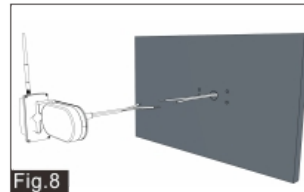


Fig.8

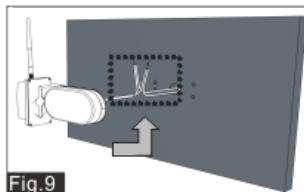


Fig.9

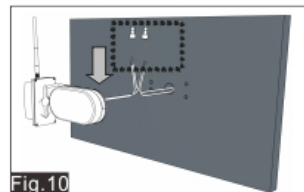


Fig.10

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

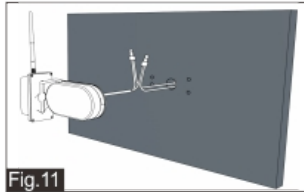


Fig.11

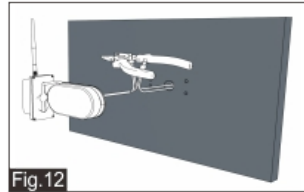


Fig.12

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

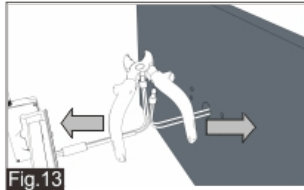


Fig.13

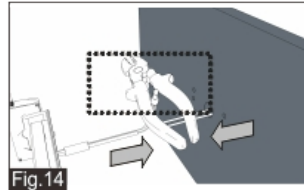


Fig.14

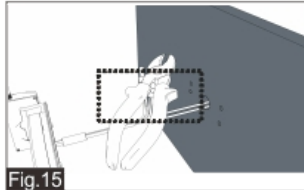


Fig.15

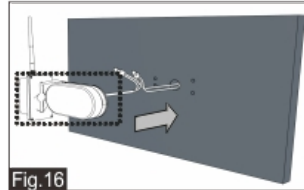


Fig.16

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.

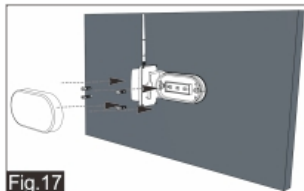


Fig.17

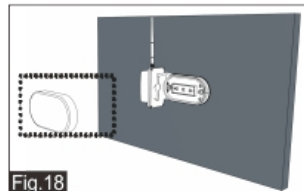


Fig.18



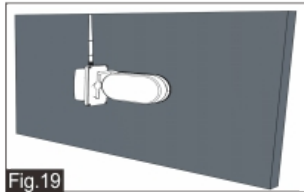


Fig.19

Figure17/Figure18/Figure19: Remove the LED cover by straight screwdriver  
Secure the LED base on the vehicle wall using the four self-tapping screws.  
Replace the LED cover. Installation done.

### **BTC128 Installation without drilling holes**



Fig.1

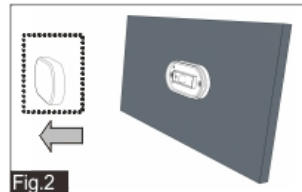


Fig.2

Figure1/Figure2: Remove LED cover from vehicle by straight screwdriver

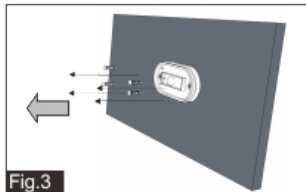


Fig.3

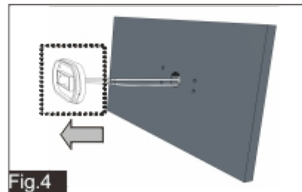


Fig.4

Figure3: Unscrew the rear light

Figure4: Remove the rear light and pull out the cables

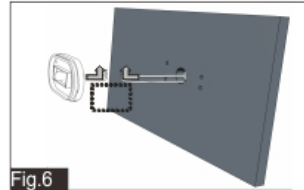
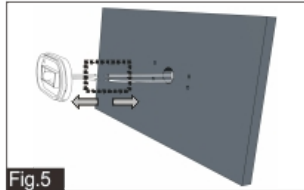


Figure5/Figure6: Cutting the cables by a plier and stripping the cables to expose the conductive core

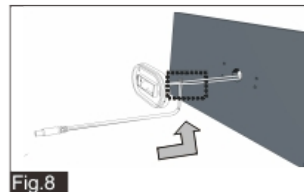
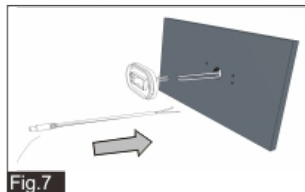


Figure7/Figure8: Ensure correct polarity when wiring the cables.  
Red + Black -

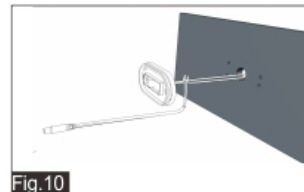
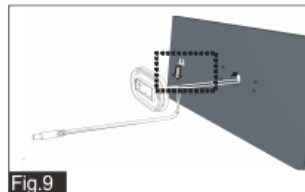
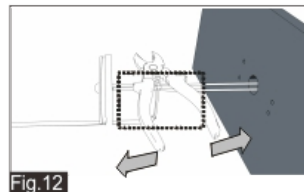
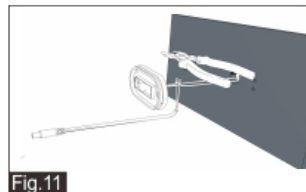


Figure9/Figure10: Clamp the terminal tightly to make sure they are sealed and waterproof.



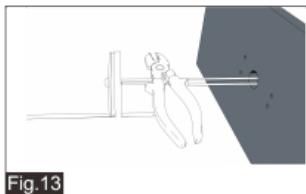


Figure11/Figure12/Figure13:  
Wire connections and terminals must  
be sealed securely and waterproof.

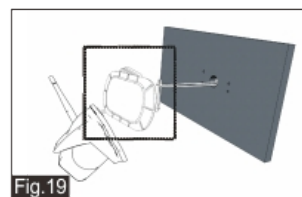
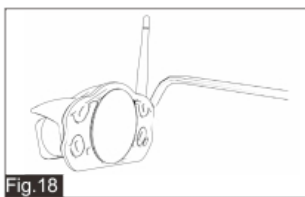
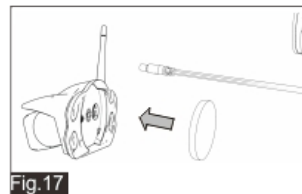
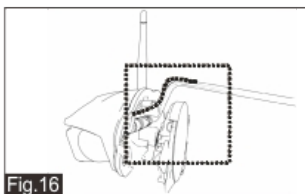
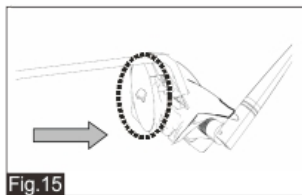
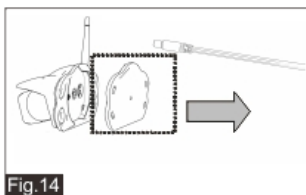


Figure14/Figure15/Figure16: Take out the base from bracket housing.  
Figure17/Figure18: Insert magnet into base

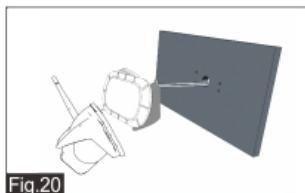


Fig.20

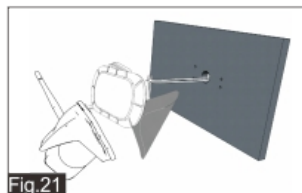


Fig.21

Figure20/Figure21: Remove the protective film of the magnetic plate.

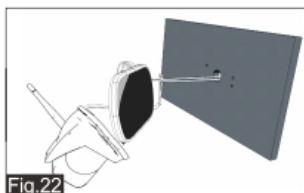


Fig.22

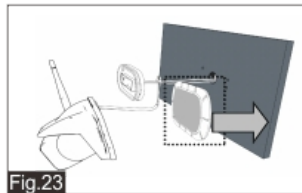


Fig.23

Figure22/Figure23: Adhere the magnetic plate on RV under the rear light.

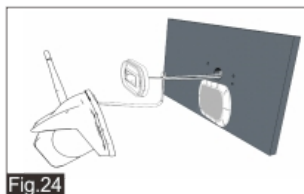


Fig.24



Fig.25

Figure24/Figure25: Put back the rear light and magnet the camera on metal plate.

## 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:**

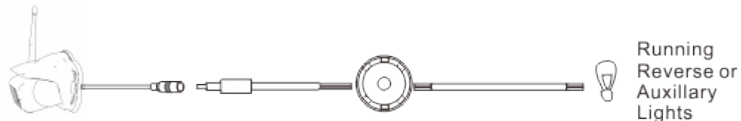
the camera will active when the running lights are switched on.

#### **Wiring to reverse lights:**

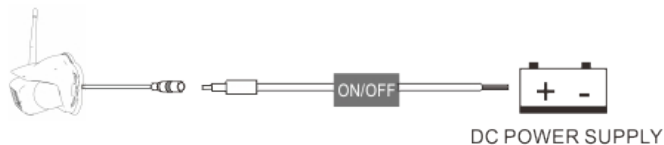
the camera will active when the vehicle engages reverse gear.



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

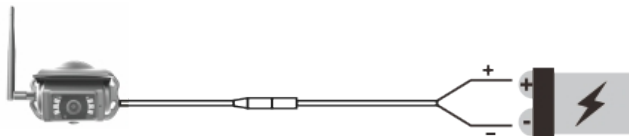


When wiring this camera directly to a 12V battery or converter in your RV, use an in-line switch on the power cable to power on or off your camera. This will enable this camera to be used when parked without a tow vehicle connected.

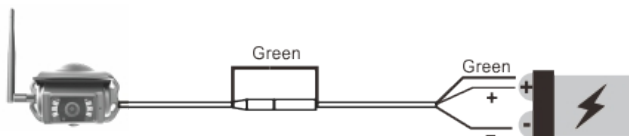


### Camera Wiring Method 1:

Power on the camera by connecting the Red positive wire to 10 - 32 VDC power source, Black to Negative/Ground source, and connecting camera plug.



### Camera Wiring Method 2:



Connecting the camera plug and green wires.

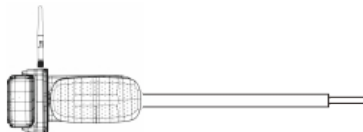
Connecting the red positive wire and green wire to 10-32VDC power source, connect the Black to Negative/Ground source.

This wiring method can achieve camera triggering function. For example, if the green camera triggering wire is connected to left turn signal light, the monitor will switch to this camera every time the left turn signal light is turn on.

For multi cameras, triggering function can help switch screen display automatically without manually switching channels of cameras to avoid diverting the driver's attention during driving.

## 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                            | 1/2.9" CMOS                |        |
| TV System                               | 25 f/s                     | 30 f/s |
| Effective Pixels                        | 1290×1080 pixels           |        |
| Pixel Size                              | 2.8um×2.8um                |        |
| 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                     | 2400-2483MHz               |        |
| Transmission Distance<br>(barrier free) | 300m (984ft)               |        |
| Transmission Power                      | 18dBm                      |        |
| Video Code                              | H.264                      |        |
| Spread Spectrum                         | DSSS                       |        |
| Latency                                 | 120ms                      |        |
| RF Bit Rate                             | 12Mbps                     |        |
| Minimum Illumination                    | 0Lux                       |        |
| Power Supply                            | DC10~32V                   |        |
| Night Vision Distance                   | 8~10m (26~32ft)            |        |
| Water Proof Rating                      | IP69K                      |        |
| Viewing Angle                           | 120°                       |        |
| Audio                                   | Yes                        |        |
| Operating Temperature                   | -20°C ~ 70°C, RH95%MAX.    |        |
| Storage Temperature                     | -30°C ~ 80°C, RH95%MAX.    |        |