



Backup Camera

User Manual

UD04678B-B



See Far, Go Further

User Manual

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About this Manual

This Manual is applicable to Backup Camera.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (<http://overseas.hikvision.com/en/>).

Please use this user manual under the guidance of professionals.

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Regulatory Information FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. **FCC compliance:** 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.


FCC Conditions

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

 This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.




 2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info 2006/66/EC and its amendment~2013/56/EU (battery directive): This product

contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information.

 The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 NOTE	Provides additional information to emphasize or supplement important points of the main text.
 WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:





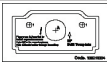

Avoid touching the device with your bare hands when it is working. When the temperature of working environment is higher than 50 °C , you may scald yourself by touching the shell of the device.

- Proper configuration of all passwords and other security settings are the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100 to 240 VAC, 12 VDC, or 6 to 16 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Power down the device before connecting and disconnecting accessories and peripherals.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

Chapter 1 Checking Package

Ensure the backup camera in package is in good condition and all assembly parts are included.

Table 1 Package List

No.	Figure	Description
1		<ul style="list-style-type: none">• I-type backup camera: a main body and a bracket.• II-type backup camera: a main body, a bracket, and an enclosure.
2		One user manual.
3		A piece of drill template.
4		One screw package.



NOTE

The package list varies with the backup camera model.

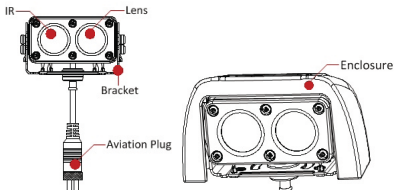
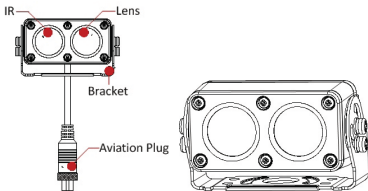
2.1 Key Features

- Day-to-night feature for 24-hour monitoring.
- Wide-angle lens.
- Electronic shutter.
- Electronic gain.
- IP68.
- Aviation plug and image stabilization.
- Adopts metal material.

2.2 Structure and Components

2.2.1 Overall View

The overall view of I-type and II-type cameras are shown in Figure 1 and Figure 2.



2.2.2 Aviation Plug

The aviation plug design increases the image stabilization. It offers two types of pin sequence as show in Figure 3. Connect the aviation plug with a suitable cable. Corresponded with mobile environment, backup camera power supply adopts wide voltage range (6 to 16 VDC).



Figure 3 Aviation Plug Pin Sequences

NOTE

Ensure the installation position strong enough to support four times the weight of backup camera.

3.1 Installing I-Type Backup Camera

Step 1 Paste the drill template to the desired plate on vehicle rear.

Step 2 The two Hole 1 are used to fix the bracket. Drill them with a 5.5 mm drill and insert a metal anchor in each Hole 1.

NOTE

If you want to route cable inside the vehicle, you have to drill a cable hole according to Hole A.

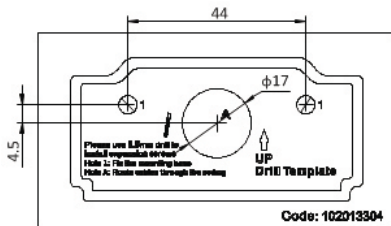


Figure 1 Drill Template

Step 3 Aim the holes in bracket with the two Hole 1.

Step 4 To fix bracket on the vehicle, thread one PA4*25 screw into each metal anchor through the bracket.

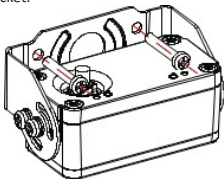


Figure 2 Thread Screws

Step 5 Loosen the two fixing screws.

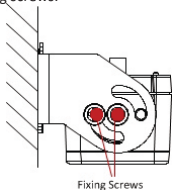


Figure 3 Loosen Fixing Screws

Step 6 Rotate the main body to a desired view and fasten the fixing screws to finish installation.

i NOTE

The rotatable angle is up to 90 degree, as shown in Figure 4.

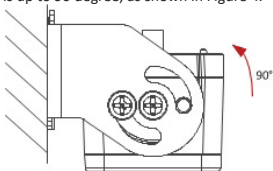


Figure 4 Rotate Main Body

3.2 Installing II-Type Backup Camera

Step 1 Press the clips at the sides of enclosure and separate the enclosure from the main body along the direction shown in Figure 1.

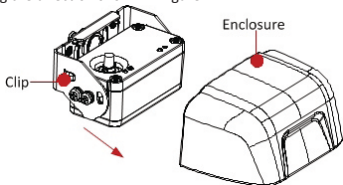


Figure 1 Separate Enclosure and Main Body

Step 2 Drill in vehicle rear and aim the holes in bracket with drill template, for detailed steps, refer to step 1 to 3 of section 3.1.

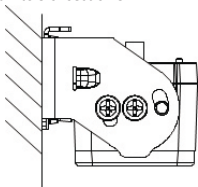


Figure 2 Drill Holes

Step 3 To fix bracket on vehicle, thread one PA4*25 screw into each metal anchor through bracket.

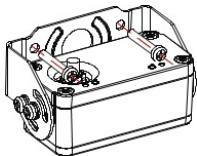


Figure 3 Thread Screws

Step 4 Assemble enclosure to main body along direction shown in Figure 4 to finish installation.

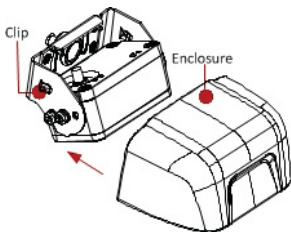


Figure 4 Assemble Enclosure