



DSM Vehicle Mounted Camera User Manual



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Regulatory Information

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 LVD Directive 2014/35/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 (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.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into "Warnings" and "Cautions"

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.



WARNINGS

- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region.
- Refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with AC 24V or DC 12V according to the IEC60950-1 standard. 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.
- Make sure that the plug is firmly connected to the power socket.
- When the product is mounted on wall or ceiling, the device shall be firmly fixed.
- 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.
- If the product does not work properly, contact your dealer or the nearest service center. Never attempt to disassemble the camera by

yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)






CAUTIONS

- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject it to physical shock.
- Do not touch sensor modules with fingers. If cleaning is necessary, use clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period, replace the lens cap to protect the sensor from dirt.
- Do not aim the camera at the sun or extra bright places. Blooming or smearing may occur otherwise (which is not a malfunction), and affect the endurance of sensor at the same time.
- The sensor may be burned out by a laser beam, so when any laser equipment is in using, make sure that the surface of sensor will not be exposed to the laser beam.
- Do not place the camera in extremely hot, cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for operating environment.
- Keep the camera away from liquid while in use.
- While in delivery, the camera shall be packed in its original packing, or packing of the same texture.

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.

1 Check Package

1.1 Before You Begin

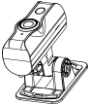


Before unboxing, please check to see if the package is intact. Unbox and refer to the list to make sure that all the assembly parts are included.

If there is no problem, the device is ready for installation.

1.2 Packing List

The packing list of the device is shown below.

Table 1-1 Packing List

No.	Picture	Name	Quantity
1		Camera	1
2		Screw Set	1
3		Hexagon Wrench	1

NOTE

The assembly parts may vary according to different device models. Refer to the actual device for details.

2 Introduction

2.1 Features

This series of camera adopts new generation sensor with high sensitivity and advanced circuit design. It features high resolution, low image distortion and low noise, etc., which makes it suitable for monitor system and image processing system. The main features are as follows:

- Captured motion images without aliasing
- High resolution image
- Supports auto electronic shutter function to adapt to different monitoring environments
- Supports auto electronic gain function, brightness adaptation
- Adopts shock-proof design and aviation plug

2.1.1 Appearance

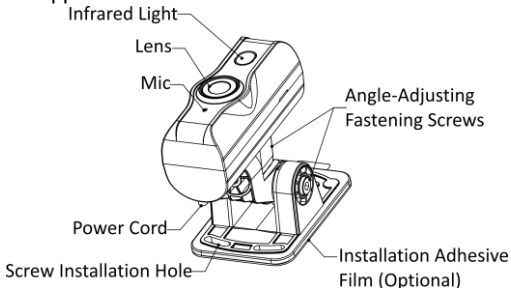


Figure 2-1 Appearance

2.1.2 Aviation Plug

The camera is designed with an aviation plug, as shown below, to ensure shock-proof. Make sure your cable matches with the plug. 9 VDC to 16 VDC power supply for vehicle-mounted cameras.

Cable A

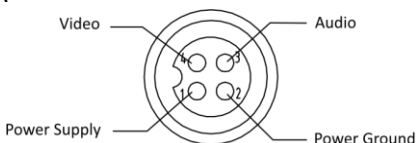


Figure 2-2 Interfaces of Aviation Plug (Cable A)

Cable B

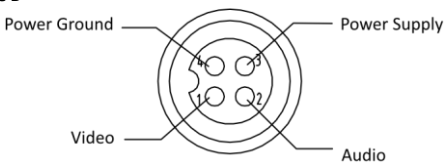


Figure 2-2 Interfaces of Aviation Plug (Cable B)

3 Installation

Before you start, please make sure that the device in the package is in good condition and all the assembly parts are included.

NOTE

The camera is installed on the A-pillar or front windshield. According to the installation position, there are two types of installation methods, screw fixing and adhesive fixing. Please use the corresponding accessories according to the actual installation position.

Step 1 If the installation position is the front windshield and the left-hand drive vehicle is installed, the camera mount does not need to change direction. If the installation position is the front windshield and the right-hand drive vehicle is installed, the camera mount needs to be reoriented, as shown below.

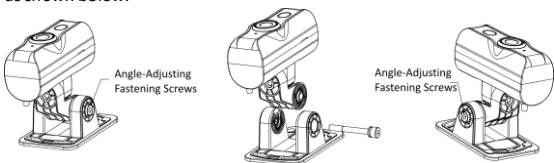


Figure 3-1 Adjust Mount

Step 2 Use the hexagon wrench included in the package to loosen the two angle-adjusting fastening screws but not completely so that the camera can rotate freely around the hinge. The base of the device can be installed in two directions, as shown below, which is subject to the actual installation scenario to ensure that the angle-adjusting fastening screws are easy to operate.

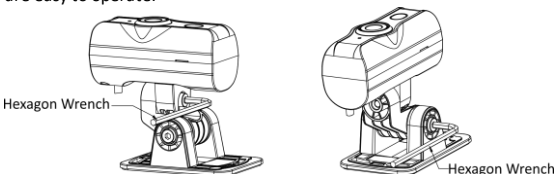


Figure 3-2 Adjust Angle

Step 3 Select device installation position: The driver's A-pillar position is preferred, and the secondary is front windshield close to the A-pillar position. Make sure that the driver's head is in the center of the frame without affecting the driver's driving operation and vision.

Step 4 The device is installed at the position of the vehicle's A-pillar. Remove the installation adhesive film for pre-fixing, and use the screw set in the package to fix screws according to the determined installation position. Do not need to be completely tightened after installing the screws, the device position can be fine-tuned, and continue to tighten screws after determination, as shown below.

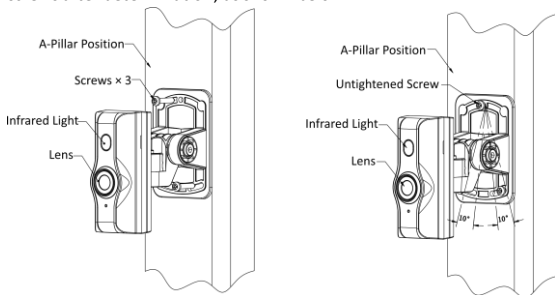


Figure 3-3 Installation at A-Pillar

Step 5 The device is installed on the front windshield of the vehicle. Clean and dry the glass surface by using an isopropyl alcohol/water mixture. Remove the installation adhesive film, and pay attention to not be contaminated by fingers after tearing off the adhesive film. After the device is pasted to the windshield, the bracket needs to be fully pressed with a certain amount of pressure for no less than 20 seconds, as shown below.

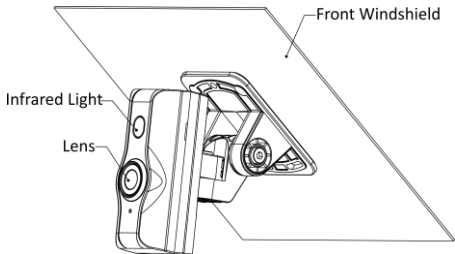


Figure 3-4 Installation on Front Windshield

Step 6 Precisely adjust the device angle to ensure that the driver's head is in the center of the frame. After confirmation, tighten the two angle-adjusting fastening screws, as shown below.

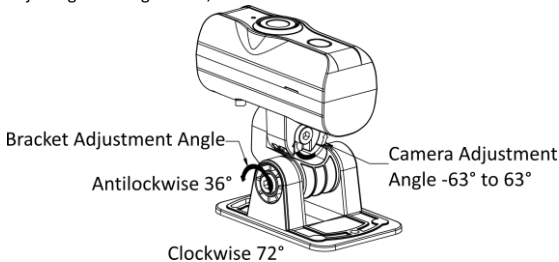


Figure 3-5 Fix Angle