



Coach Front View Camera

User Manual



See Far, Go Further

UD33729B

User Manual

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This manual applies to Vehicle-Mounted Camera.

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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.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

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	<p>Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.</p>
 DANGER	<p>Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.</p>

1 Introduction

1.1 Product Features

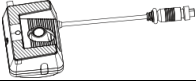

This series of camera adopts new generation sensor with high sensitivity and advanced circuit design technology. It features high resolution, low image distortion and low noise, etc., which makes it suitable for monitoring system and image processing system.

The main features are as follows:

- 2 MP progressive scan CMOS
- Support HD output with clear image
- Supports auto BLC, AWB, WDR
- Supports auto gain control
- Adopts shock-proof design and aviation plug

1.2 Packling List

Table 1-1 Packing List

No.	Illustration	Name	Number
1		Camera	1
2		User Manual	1

1.3 Overview

The overview of the camera is shown below.

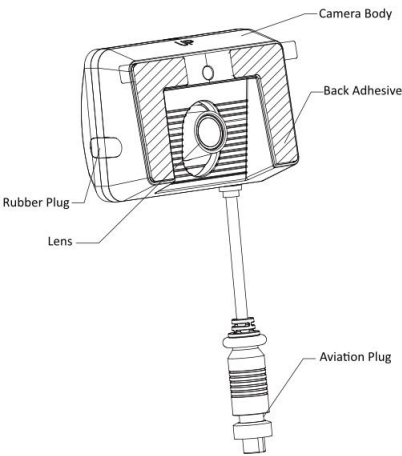


Figure 1-1 Overview

1.4 Cable Description

The power supply for the camera is DC 9 V to 16 V wide voltage range mobile DC. Make sure that your cable matches with the plug.

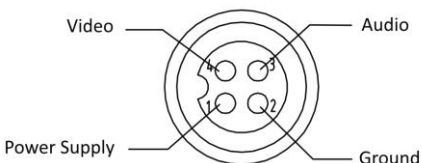


Figure 1-2 A Sequence

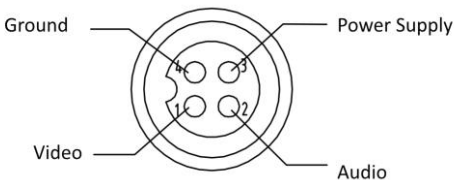


Figure 1-3 B Sequence

1.5 Wiring

The product support top wiring and bottom wiring.

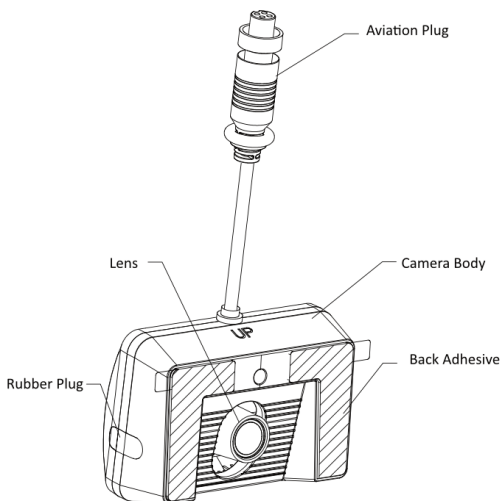


Figure 1-4 Top Wiring

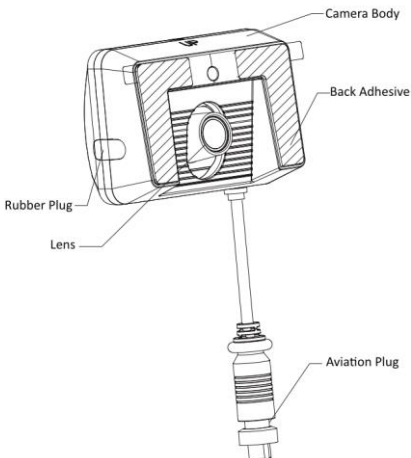


Figure 1-5 Bottom Wiring

2 Installation

Before you start:

- Please make sure that the device in the package is in good condition and all the assembly parts are included.

Steps:

1. Clean the mounting surface with a mixture of isopropyl and water.

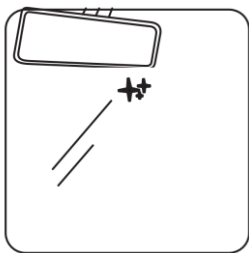


Figure 2-1 Clean the Surface

2. Tear off the release paper on the camera body.

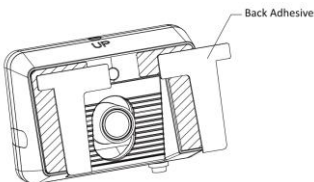


Figure 2-2 Tear Off the Back Adhesive

3. Stick the camera to the installation surface with the "UP" sign on top. Press it for more than 20 s to clear the bubble between the adhesive and the installation surface.
4. Keep the camera staying there for over 12 h to avoid the disintegration of the glue.
5. Adjust the camera to the target angle.
6. Open the rubber plug on the side of the camera, as shown in Figure 2-3.

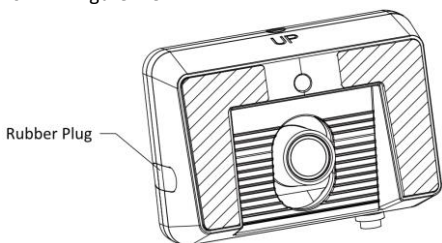


Figure 2-3 Open the Protection Cover

7. Adjust the angle of the camera by adjusting the adjustment structure with a screw, then tighten the fixing screw and recover the cover of the camera

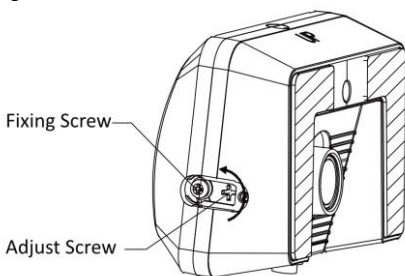


Figure 2-4 Adjust the Angle

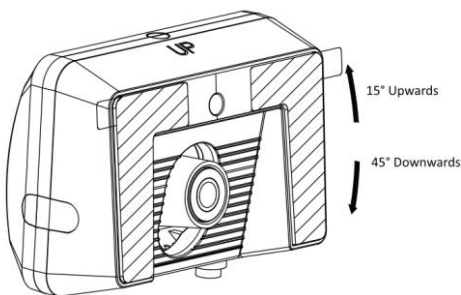


Figure 2-5 Range for Angle Adjustment

8. Tighten the fixing screw, and cover the rubber plug.