

Vehicle-Mounted Camera User Manual



UD02784B-A

User Manual

Thank you for purchasing our product. If there are any questions, or requests, do not hesitate to contact the This manual applies to Vehicle-Mounted Camera.

This manual may contain several technically incorrect places or printing errors. The content is subject to change without notice, and the updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Regulatory Information **FCCInformation**

FCCcompliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio

which case the user will be required to correct the interference at his own expense. **FCCConditions**

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.

communications. Operation of this equipment in a residential area is likely to cause harmful interference in

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 Low Voltage Directive 2014/35/EC, the EMC Directive



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

Industry Canada ICES-003 Compliance This device meets the CAN ICES-3 (A)/NMB-3(A)

Поставщик систем безопасности TELECAMERA.RU 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:

Safety Instruction

These instructions are intended to ensure that user can

www.recyclethis.info.

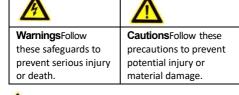
standards requirements.

use the product correctly to avoid danger or property loss. The precaution measure is divided into "Warnings" and

"Cautions"

warnings are neglected. Cautions: Injuryor equipment damage may occur if any of the cautions are neglected.

Warnings: Seriousinjury or death may occur if any of the





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.

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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.)



Make sure the power supply voltage is correct before using the camera.

Cautions

- Do not drop the camera or subject it to physical shock.
- Do not touch senor 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.
- While in delivery, the camera shall be packed in its original packing, or packing of the same texture. Symbol Conventions

Keep the camera away from liquid while in use.

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.
	Indicates a potentially hazardous

ed, could data loss, or



NOTE	points of the main text.
• WARNING	Indicates a potentially li situation, which if not avoid result in equipment damage, performance degradation

n, unexpected results. Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

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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 surveillance system and image processing system. The main features are as follows:

High performance CMOS sensor and high resolution bring high-quality image.

Low illumination. Support IR LED.

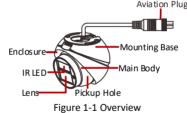
Support auto white balance, auto gain control, unit transmission control.

Advanced 3-axis design meets different installation requirements. Support audio function (depending on models).

1.2 Overview

1.2.1 Overview of Vehicle-Mounted Camera

The overview of the camera is shown below.



i NOTE

The camera with sound pickup function has a pickup hole on the main body, shown in Figure 1-1 and this series camera can only be used in the indoor facility. For the camera without this function, it can be used in the outdoor facility.

1.2.2 Interfaces of Aviation Plug

The interfaces of aviation plug are shown below.



Figure 1-2 Interfaces of Aviation Plug

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.
- Make sure that all the related equipment is power-off during the installation.
 Check the specification of the products for the
- check the specification of the products for the installation environment.
 Check whether the power supply is matched with your
 - power output to avoid damage.

 Please make sure the wall is strong enough to withstand four times the weight of the camera and
 - withstand four times the weight of the camera and the mounting.

 If the wall is the cement wall, you need to insert
 - expansion screws before you install the camera. If the wall is the wooden wall, you can use self-tapping screw to secure the camera.

 If the product does not function properly, please contact your dealer or the nearest service center. Do

not disassemble the camera for repair or maintenance

2.1 Ceiling Mounting

by yourself.

The installation steps of ceiling mounting are shown as follows.

Step 1 Drill the screw holes according to the drill



Figure 2-1 The Drill Template

Step 2 Loosen the adjusting screw of the main body with the allen wrench.

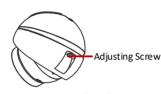
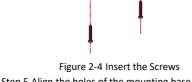


Figure 2-2 Loosen the Adjusting Screw Step 3 Open the enclosure to take out the camera.



Step 4 Take 2 PA3X25 screws from the screw package

and insert 2/3 of it into the expansion screws.



Step 5 Align the holes of the mounting base to the

PA3X25 screws.

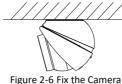
Step 6 Rotate the base to its appropriate position. Step 7 Tighten the PA3X25 screws.



Figure 2-5 Tighten the Screws

Step 8 Insert the main body of camera and insert the adjusting screws for 2~3 threads with allen wrench to make sure the main body doesn't fall off.

Step 9 Adjust the main body to the appropriate position and tighten the adjusting screws.



Step 10 Adjust the camera according to the figure below to get an optimum angle.



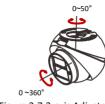


Figure 2-7 3-axis Adjustment

3 PT7 Control

The PTZ function is only supported in vehicle mounted TVI dome camera, you can realize the control of IR LED and mirror mode by calling presets.

3.1 IR LFD Control

- Enable IR LED You can enable IR LED by calling preset No. 130.
- Disable IR LED You can disable IR LED by calling preset No. 131.

3.2 Mirror Mode

- Disable Mirror Mode You can disable mirror mode by calling preset No. 140.
 - Flip the Image Vertical You can flip the image vertical by calling preset No.
 - 141. Flip the Image Horizontal You can flip the image horizontal by calling preset No. 142.
- Flip the Image Vertical and Horizontal You can flip the image vertical and horizontal by calling preset No. 143.