HIKVISION

Four-way Monitoring System

User Manual

Legal Information

About this Manual

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 of this Manual at the Hikvision website (https://www.hikvision.com/).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

Trademarks

HIKVISION and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW. ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS. YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATTER PREVAILS.

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, the RoHS Directive 2011/65/EU, RE Directive 2014/53/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.

Symbol Conventions

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

Symbol	Description
[i]Note	Provides additional information to emphasize or supplement important points of the main text.
⚠ Caution	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.

Safety Instructions

● Proper configuration of all passwords and other security settings is 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 limited power source or PS2 requirements according to the IEC60950-1 or IEC 62368-1 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.
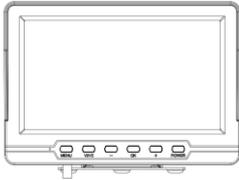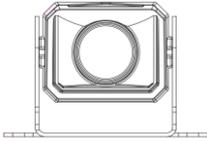
TABLE OF CONTENTS

Chapter 1 Package Check

Please check the package for damages. After opening the package, please check the whether all the items are complete according to the table shown bellow. If all items are complete, then devices are ready for installation.

Table 1-1 Packing List

No.	Picture	Name	Number
1		Four-way Monitoring Display	1
2		TF Card (64 GB, preinstalled)	1
3		Four-way Monitoring Camera	4
4		5 m Camera Extension Cable	3
5		15 m Camera Extension Cable	1

6		Screw Bag	1

Chapter 2 Product Introduction

2.1 Product Introduction

The Four-way Monitoring System is to solve the problem of vehicle blind spot. With 4 channels of 1080P cameras, it records the video of vehicle surroundings. The driver can easily tell the surrounding condition of the vehicle from the display. The supports user-friendly functions such as high-definition video surveillance, and multiple screen split frame. The products can be widely used in various vehicle models such as buses, engineering vehicles, special vehicles, etc., to meet the monitoring needs of the blind area around the vehicle.

2.2 Product Features

- Supports access to 4-way 1080P cameras.
- Supports recording overwrite.
- Supports single-channel, dual-channel, four-channel and other display modes.
- Easy installation and operation.
- Supports external DC 9V-36V.
- Supports switching to the rearview camera when reversing.
- Supports low power consumption mode and continue to record when the vehicle power supply is stopped.
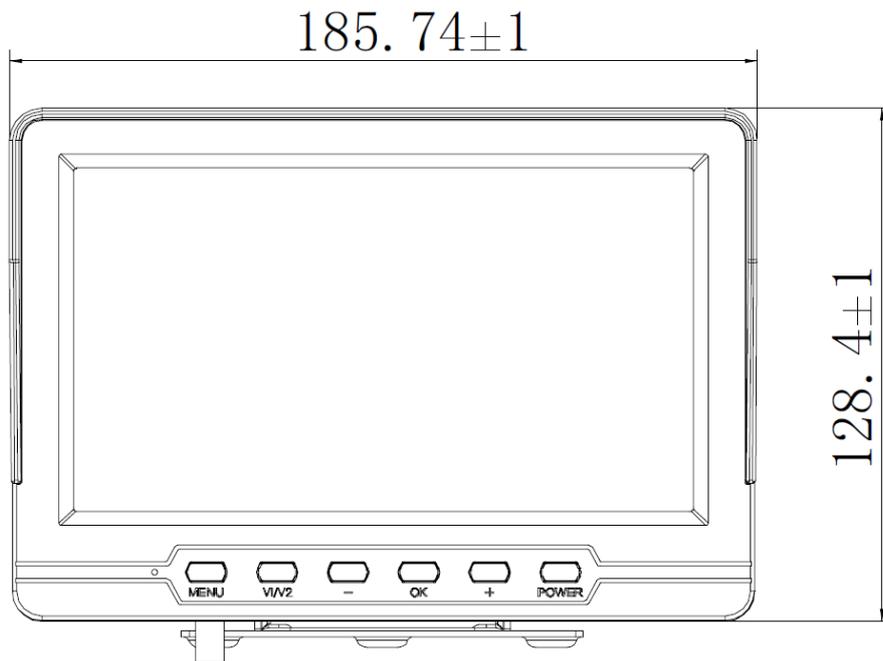- Standardly equipped with 64G TF card from Hikvision.

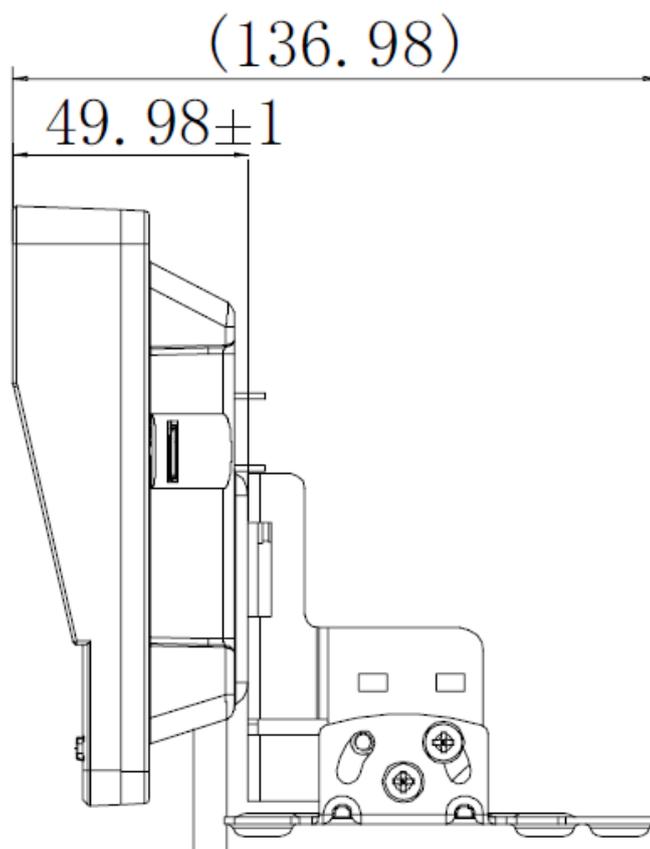## 2.3 Overview

Figure 2-1 Front Dimensions (Unit: mm)
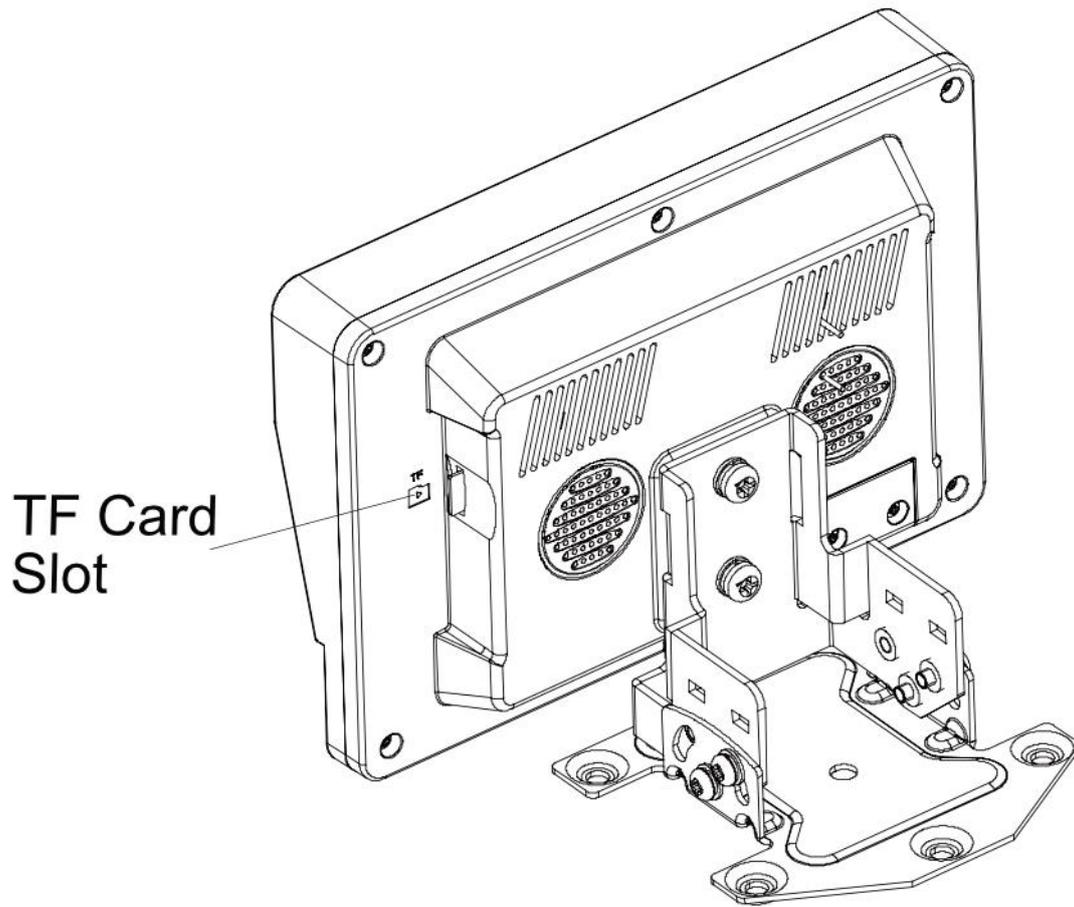

Figure 2-2 Side Dimensions (Unit: mm)
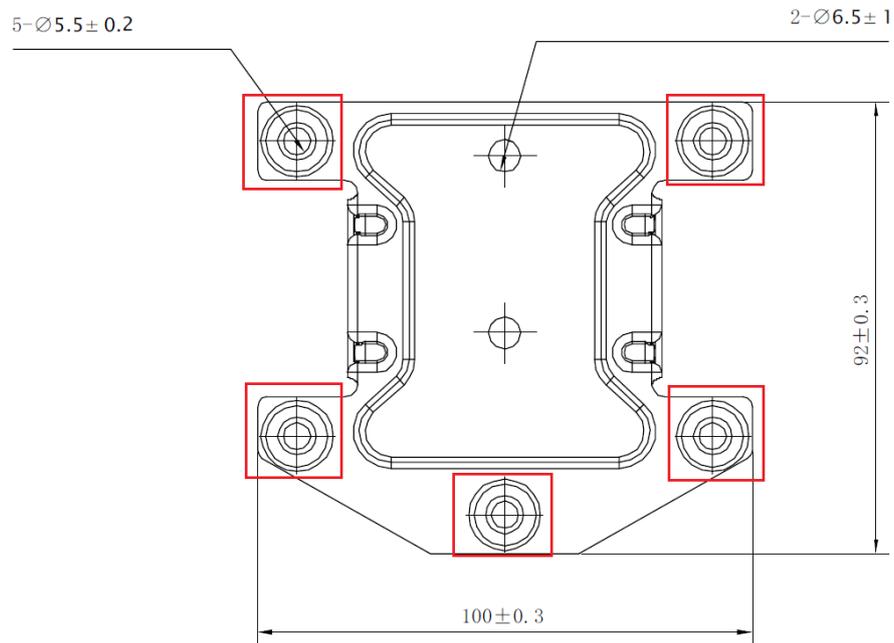
TF Card
Slot

Figure 2-3 TF Card Slot

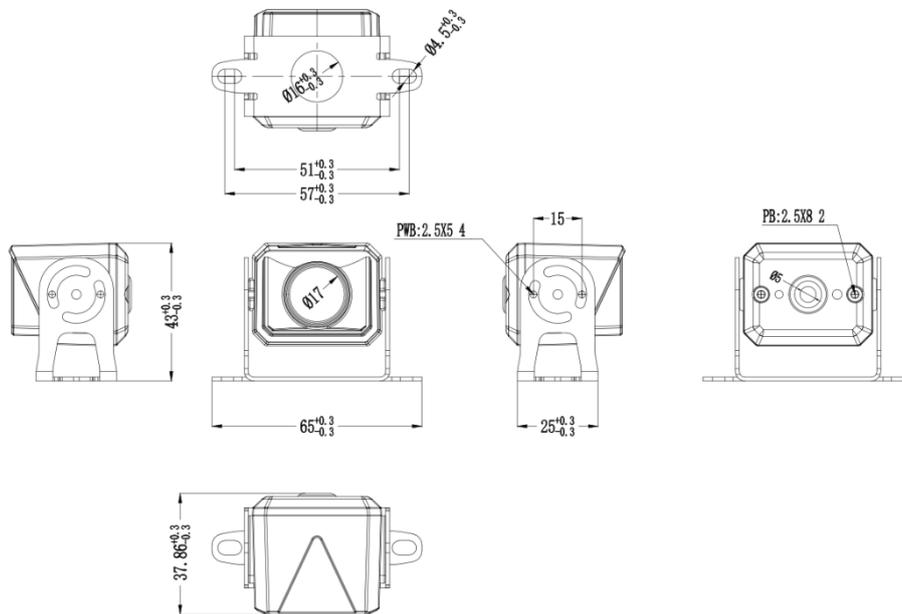Figure 2-4 Bracket Installation Hole and its Dimensions (Unit: mm)

Figure 2-5　Camera Dimensions (Unit: mm)

Chapter 3 Product Installation

All screws in this system must be fixed firmly (mounting screws are equipped in the package by default). Before the screen and bracket assembly is completed, you need to select the hole punching position in the appropriate location of the centre console according to Figure 2-4.

Step 1 When using the screws in the screw package (placed in the green pouch), use the matching screwdriver to install the bracket to the appropriate hole-punching position on the centre console.

Step 2 Assemble the display and the bracket with the screws in the package.
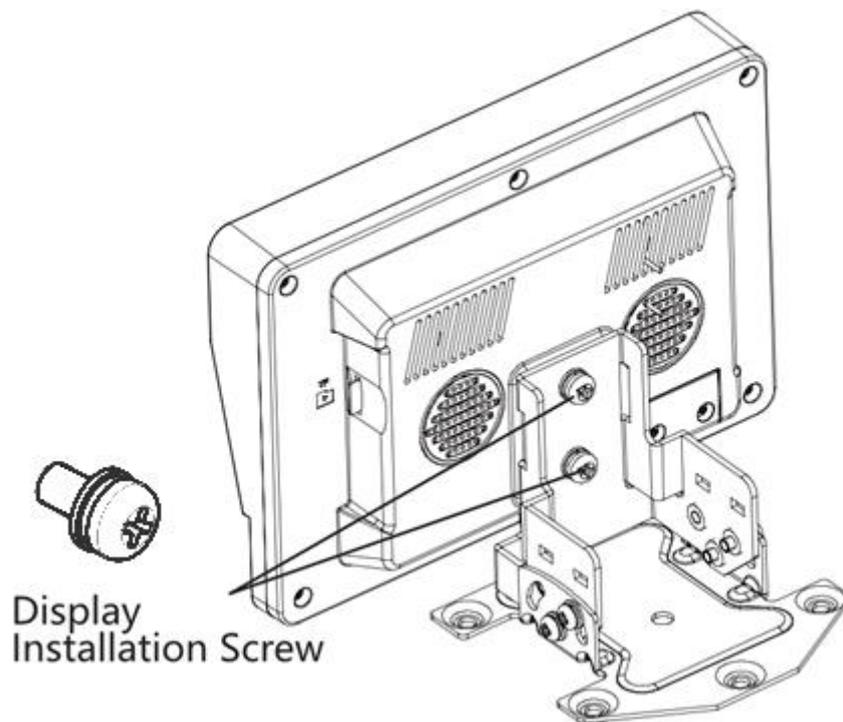

Figure 3-1 Assemble the display and the bracket

Step 3 Adjust the angle of the display with a screw driver that matches the M4 screws, then tighten the screws.
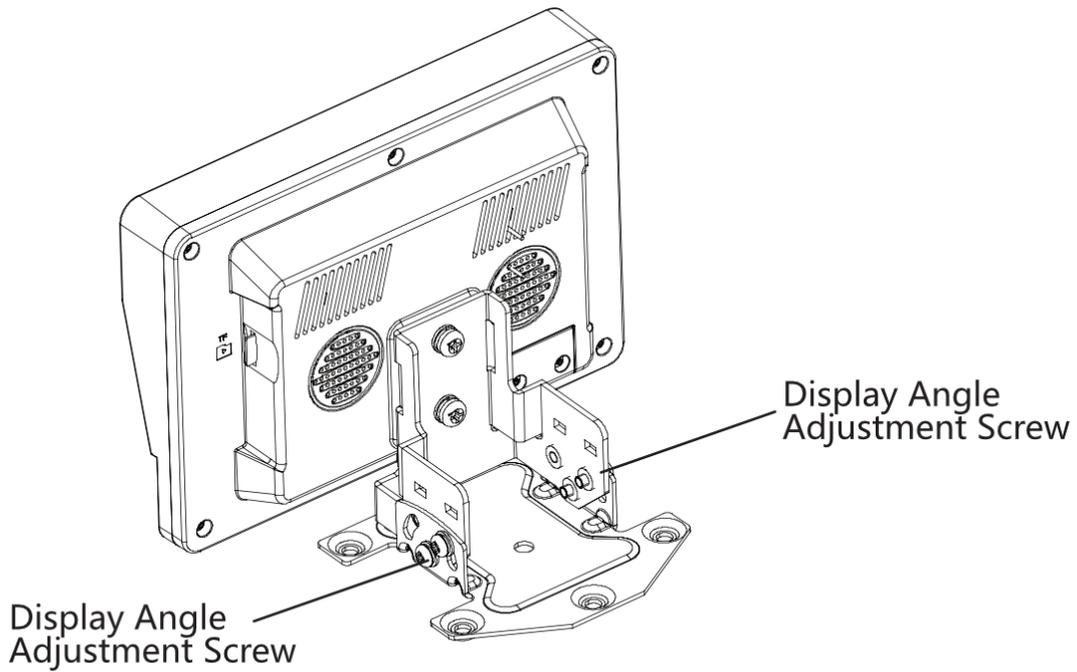
Figure 3-2 Adjust the angle of the display

Step 4 Install the camera: install the camera bracket with the screws(placed in the transparent pouch), and wire the camera through the holes in the bracket, then through the holes in the vehicle body. Depending on the type of the vehicle, the holes need to be sealed for water proof.
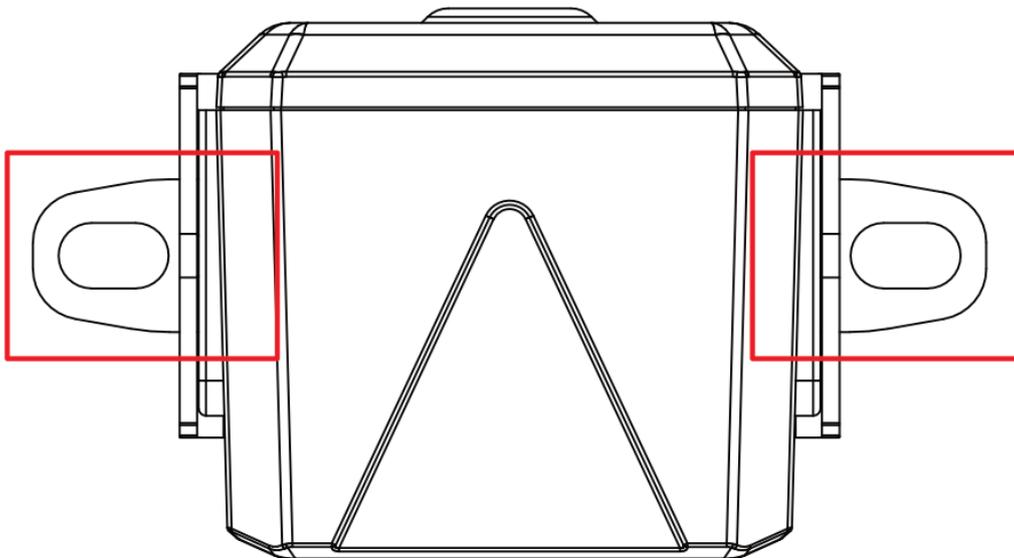

Figure 3-3 Installation Hole Position

Step 5 Adjust the camera angle: loosen the 4 screws on the side of the bracket and adjust the camera to a proper angle, then tighten the screws.
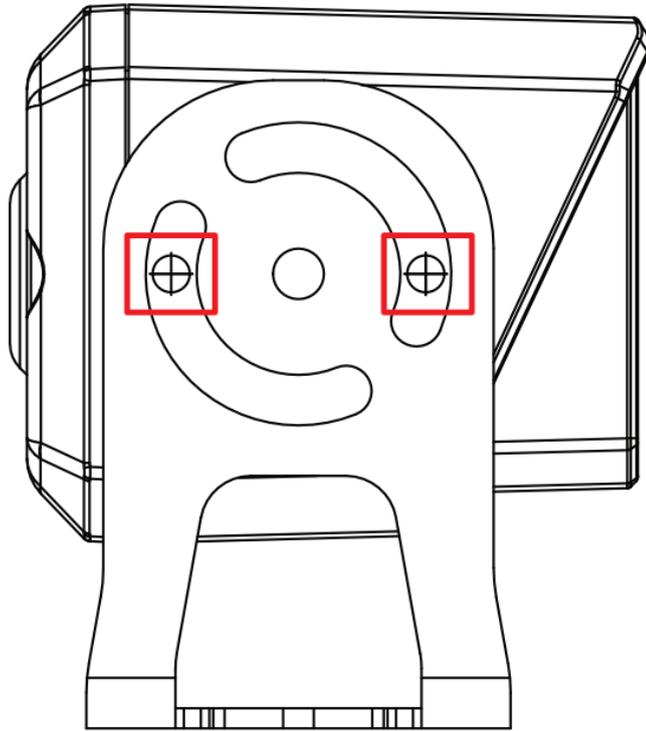

Figure 3-4 Adjust the camera angle

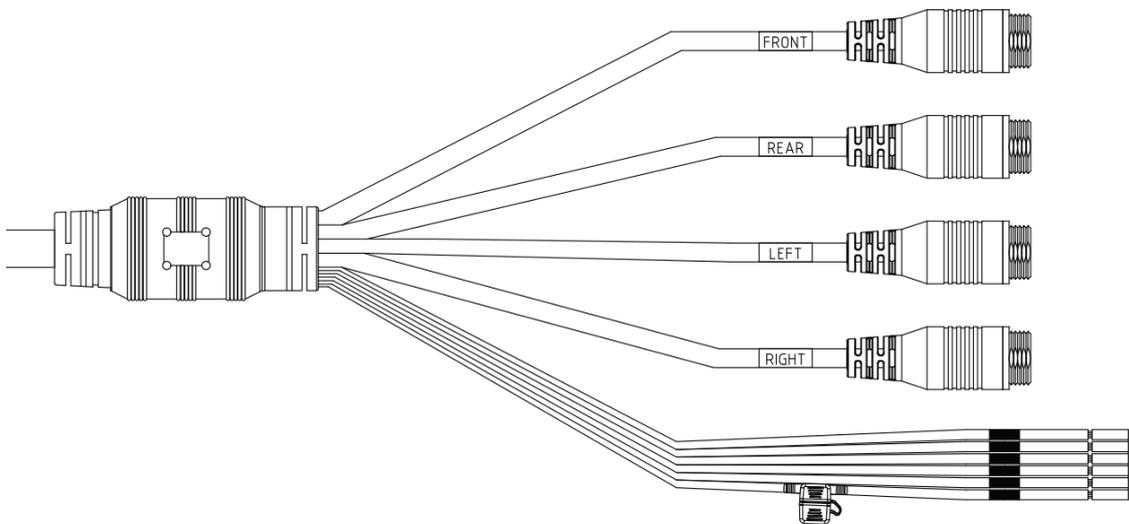Step 6 Connect to periphery devices according to your needs.

Figure 3-5 Main Cable Overview

Table 3-1 Main Cable Definition

Definition	Name	Function
Camera Connection Interface	FRONT	Connect to Front View Camera Extension Cable
	REAR	Connect to REAR View Camera Extension Cable
	LEFT	Connect to Left View Camera Extension Cable
	RIGHT	Connect to Right View Camera Extension Cable
Other Interfaces	POWER_IN	Connect to vehicle power positive
	ACC	Connect to vehicle A CC
	GND	Connect to vehicle power negative
	TURN LEFT	Connect to vehicle left turn wiring
	TURN RIGHT	Connect to vehicle right turn wiring
	REVERSE	Connect to vehicle backing wiring

Chapter 4 Basic Operations

4.1 Keys and Operation Interfaces

Operate with the keys on the display to set parameters and play video.

Table 4-1 Opertaion interface

1st Level	2nd Level	3rd Level
Preview Interface	Preview Image	/
Video Search	List of Recordings	Recordings
Basic Configuration	Video Duration	3/5/10
	Brightness Control	10%~100%
	Split Screen Setting	1/2/4/4-H
	Language Switching	Chinese/English
	Parking Monitoring	ON/OFF
	Camera L/R Mirror	ON/OFF
	Line Trigger Level	HIGH/LOW
Storage Administration	Number	Numbers
	Type	SD Card
	Condition	Status: normal
	Gross Capacity	Gross Capacity
	Remaining Capacity	Remaining Capacity
	Formatting	Confirm formatting
Maintenance Management	System Information	Type/Serial number/Master Control Version/DSP Version
	Equipment Restart	Confirm Restart
	Default Configuration	Factory Restoration
	Time set	System time

4.1.1 Key Operation

Table 4-2 Key Operation

Name	Function
MENU	Menu/Exit
V1/V2	Switch Channels
-	Move Left/Move Down (Edit Mode)
OK	Confirm; Edit (change the time ware)
+	Move Right/Move Up (Edit Mode)

4.1.2 Preview

When the display start up, it goes to the video search interface by default, where you can preview the image. Split Screen Setting can be set at basic configuration.

4.1.3 Video Search Interface

Go to Menu > Video Search, and you can search the video files by time, tap the result to play video

4.1.4 Basic Configuration

Go to Menu > Basic Configuration to configure video duration, brightness, split screen, language, and parking monitoring.

4.1.5 Storage Administration

Go to Menu > Storage to format the storage media.

4.1.6 Maintenance Management

Go to Menu > Maintenance Management to configure device information, time and factory restoration.

4.2 Upgrade

Step 1 Format the TF card and place the upgrading program in the root directory.

Step 2 Insert the TF card into the recorder TF card slot.

Step 3 Choose the preview interface and the upgrade popup will show up. Press "Confirm".

Step 4 If the recorder successfully reboots, then the upgrading is successful.

See Far, Go Further

UD35418B