



Mobile Patrol ANPR System

Quick Start Guide

About this Document

- This Document 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 Document is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of the Document at the Hikvision website (<https://www.hikvision.com>). Unless otherwise agreed, Hangzhou Hikvision Digital Technology Co., Ltd. or its affiliates (hereinafter referred to as "Hikvision") makes no warranties, express or implied.
- Please use the Document with the guidance and assistance of professionals trained in supporting the Product.

About this Product

This product can only enjoy the after-sales service support in the country or region where the purchase is made.

Acknowledgment of Intellectual Property Rights

- Hikvision owns the copyrights and/or patents related to the technology embodied in the Products described in this Document, which may include licenses obtained from third parties.
- Any part of the Document, including text, pictures, graphics, etc., belongs to Hikvision. No part of this Document may be excerpted, copied, translated, or modified in whole or in part by any means without written permission.
- **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.

LEGAL DISCLAIMER

- TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS DOCUMENT 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 DOCUMENT AND THE APPLICABLE LAW, THE LATTER PREVAILS.

© Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

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.
 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.

TABLE OF CONTENTS

Chapter 1 Introduction	1
1.1 Introduction.....	1
1.2 Overview.....	1
1.2.1 Mobile Video Recorder	1
1.2.2 Camera Module	3
Chapter 2 Installation	4
2.1 Before Installation	4
2.1.1 Installation Requirement	4
2.1.2 Installation Environment	4
2.2 Lay Cables	4
2.3 Install SIM/TF Card	4
2.4 Install Device	5
2.4.1 Install Front Camera	5
2.4.2 Install Rear Camera.....	7
2.4.3 Install Mobile Video Recorder	8
2.4.4 Install Antenna.....	10
2.5 Start Up.....	13
Chapter 3 Detailed Configuration	14

Chapter 1 Introduction

1.1 Introduction

Mobile Patrol ANPR System (hereinafter referred to as system) includes a mobile video recorder and several cameras. It can be installed on a vehicle, with handheld data processing terminals, to realize vehicle capture and ANPR, license plate comparison, driving records and vehicle locating, etc.

1.2 Overview

1.2.1 Mobile Video Recorder

The overview of the mobile video recorder is shown as below.

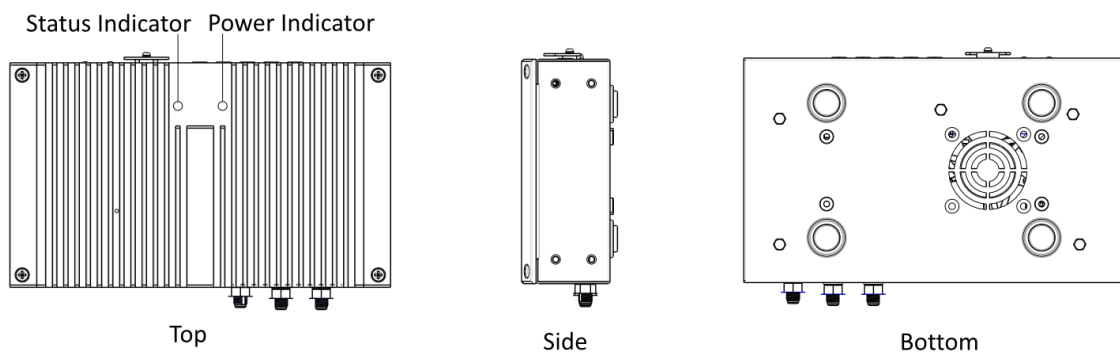


Figure 1-1 Recorder Overview

Note

- Status Indicator: Solid green indicates that the recorder is started. Flashing green indicates the recorder is faulty.
- Power Indicator: Solid red indicates that the recorder is powered on.

The front and rear interfaces of the recorder are shown as below.

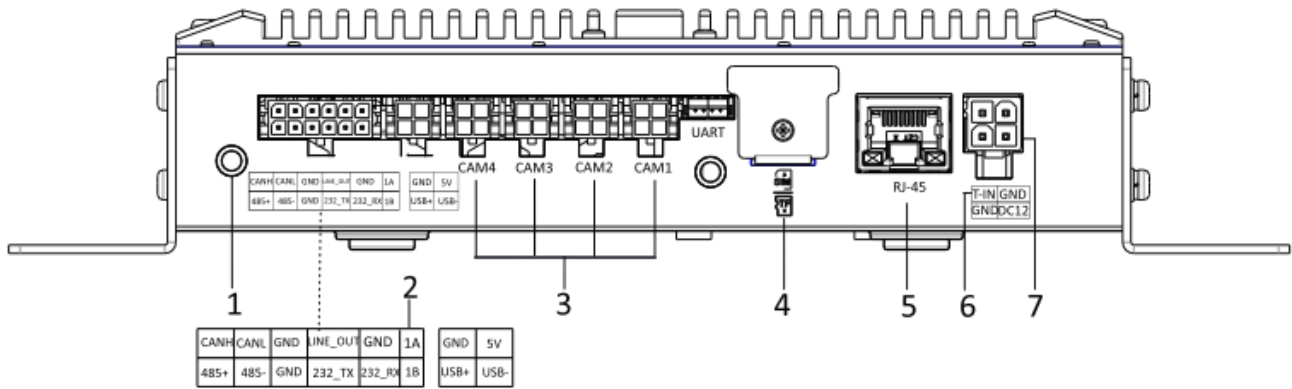


Figure 1-2 Recorder Front Interfaces

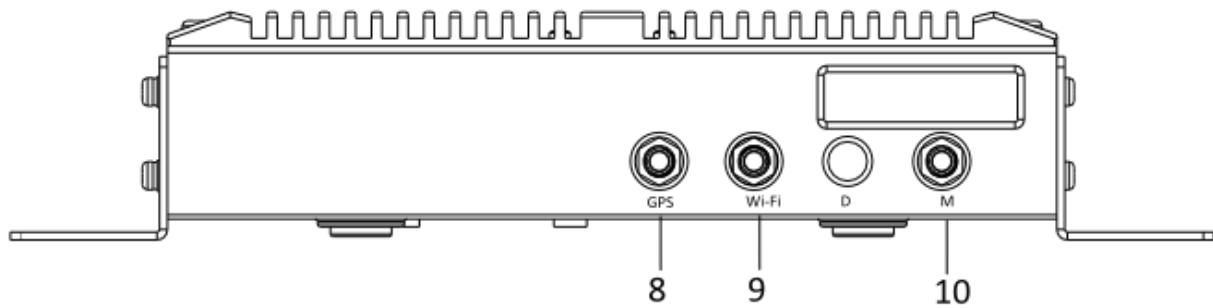


Figure 1-3 Recorder Rear Interfaces

Table 1-1 Interfaces Description

No.	Name	Description
1	Grounding Interface	Connects to grounding terminals.
2	Alarm Output	Outputs I/O signal.
3	Camera Interface	Connects to camera cables.
4	SIM/TF Card Interface	Used to insert SIM/TF card.
5	Network Interface	Connects to the network cable.
6	Alarm Input	Inputs I/O signal.
7	Power Input	Connects to the power cord for power supply.
8	GPS	Connects to the GPS antenna.
9	Wi-Fi	Connects to the Wi-Fi antenna.
10	4G	Connects to the 4G antenna.

1.2.2 Camera Module

The camera module is installed before delivery. The appearance of the camera module is shown as below.

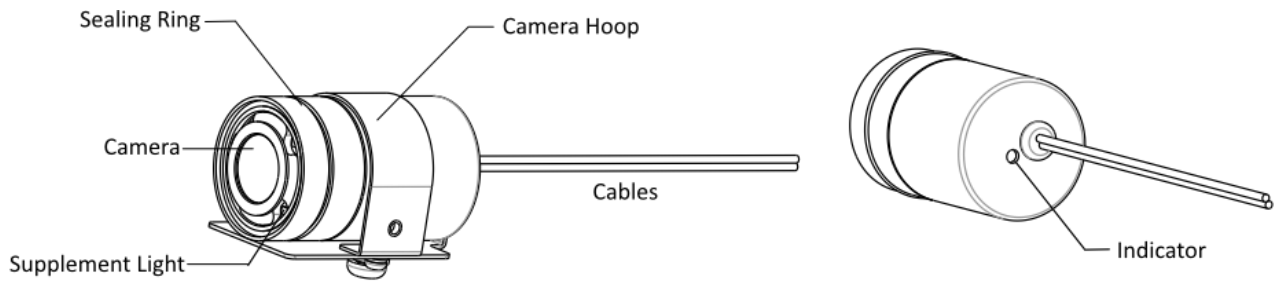


Figure 1-4 Camera Module Appearance

Note

Solid green indicator indicates that the camera is started.

Chapter 2 Installation

When you receive the product, check whether there is obvious damage on the product package and its appearance first. Then open the package and check whether all the accessories are included. If something loses, contact us or our supplier.

2.1 Before Installation

2.1.1 Installation Requirement

- All electrical operations shall abide by the latest electrical safety regulations, fire protection and related regulations of the country and the region.
- Disconnect the power of all relevant devices during installation.

2.1.2 Installation Environment

- The recommended vertical pole mounting height is 1.3 m.
- Install the mobile video recorder in a waterproof space for the recorder is not waterproof.
- Check that the bearing capacity of the mounting position can support 8 times the weight of the device and its accessories such as brackets

2.2 Lay Cables

Lay the cables that need to be connected, including the network cable, power cord, signal cable, etc.



Caution

Please check the power supply voltage to prevent any device damage caused by inconsistent voltage levels.

2.3 Install SIM/TF Card

Install the SIM/TF card according to the following steps.

Before you start

Prepare the SIM/TF card by yourself.

Step 1 Unscrew the screw with a screwdriver, and open the card cover.

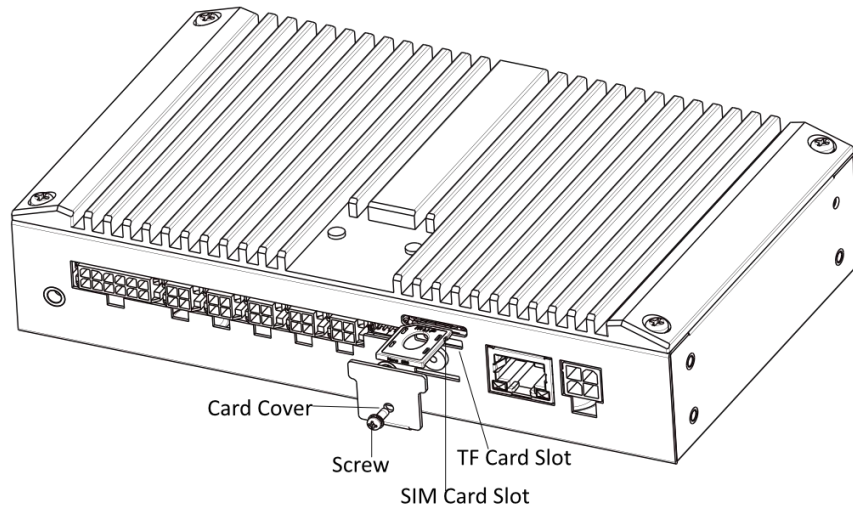


Figure 2-1 Install SIM/TF Card

Step 2 Insert the SIM/TF card into the corresponding card slot.

Step 3 Tighten the screw to secure the card cover.

Step 4 (Optional) To take out the card inserted, press the card inward until the card pops out automatically, and then pull out the card.

2.4 Install Device

Follow the steps below to install the device.

Before you start

Cut off the power before you install the device.



Caution

Fix the device firmly. Make security precautions if necessary. Check the firmness regularly. Device falling may cause serious personal injury or death.

2.4.1 Install Front Camera

Install the front camera to the motorcycle windshield according to the steps below.

Step 1 Drill holes on the motorcycle windshield with the diameter of 4.5 mm, and fix the sheet metal bracket A to the motorcycle windshield with two M4 × 21 screws and nuts.

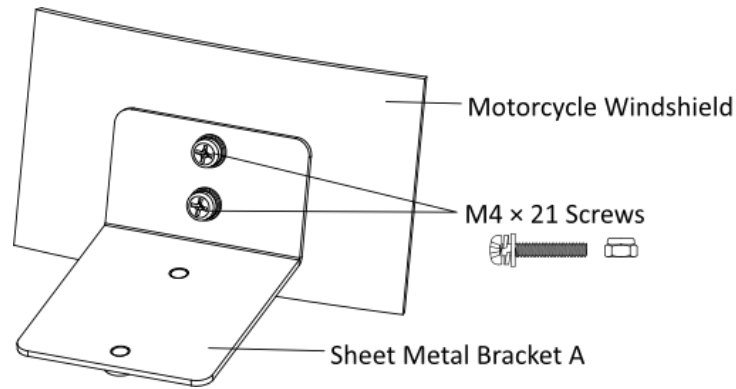


Figure 2-2 Fix Sheet Metal Bracket A

Step 2 Remove the protective film of the camera base, and then fix the camera base to the sheet metal bracket A with two M4 x 14 screws and nuts.

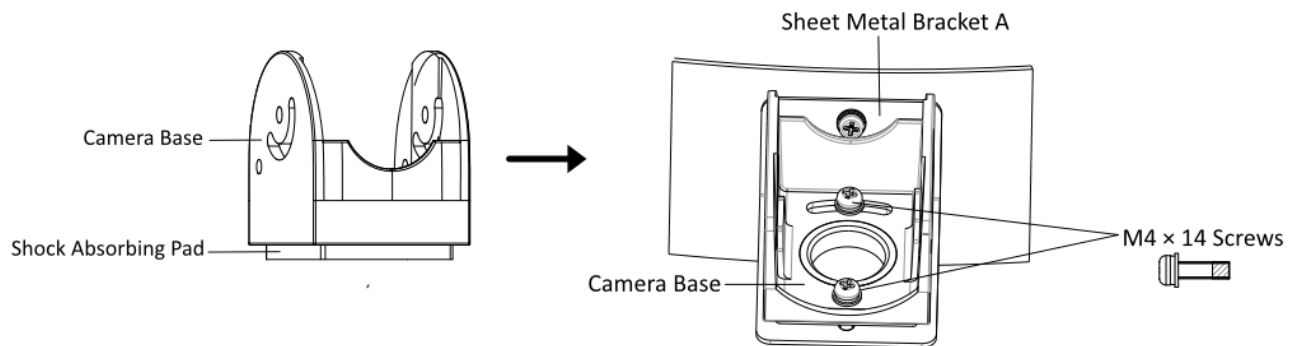


Figure 2-3 Install Camera Base

 Note

- Adjust the horizontal angle of the camera base during base installation, otherwise you need to remove the camera for adjustments.
- The shock absorbing pad has been attached to the camera base before delivery.

Step 3 Install the camera module to the camera base with two M3 x 8 screws.

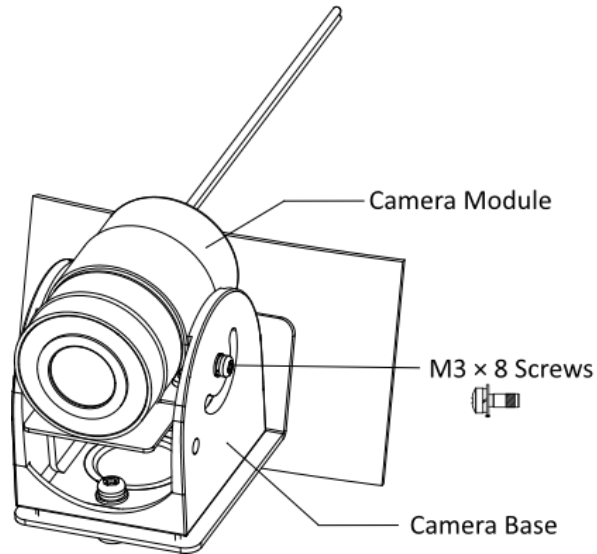


Figure 2-4 Install Camera Module



Note

Adjust the camera vertical angle when fixing the camera module.

2.4.2 Install Rear Camera

Step 1 Fix the camera base to the sheet metal bracket B with two M4 x 14 screws and nuts.

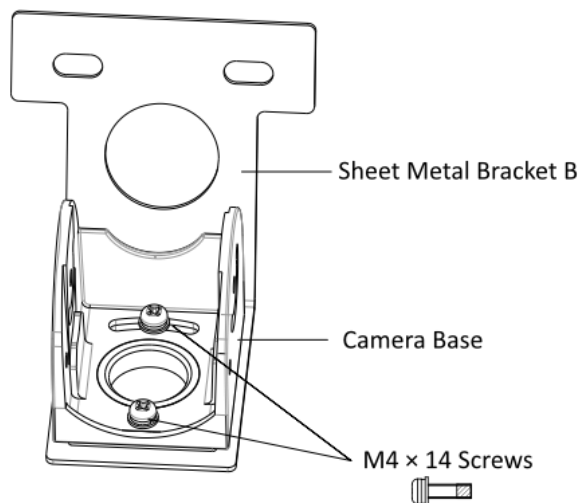


Figure 2-5 Install Camera Base



Note

Adjust the horizontal angle of the camera base during base installation, otherwise you need to remove the camera for adjustments.

Step 2 Attach the camera module to the camera base, and then fix it with two M3 x 8 screws.

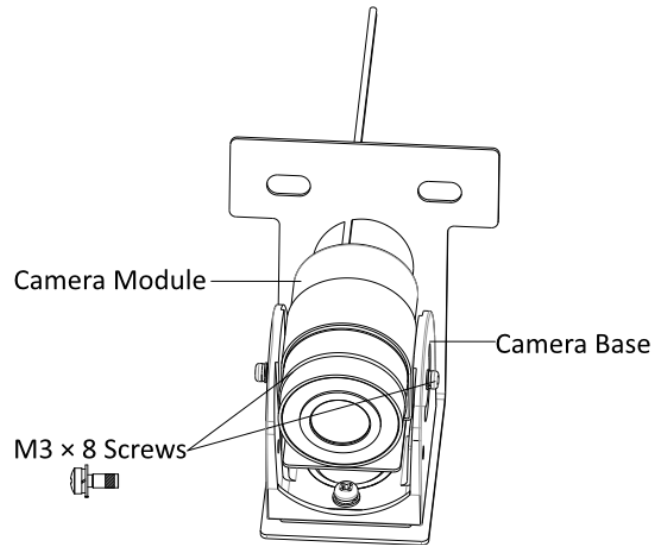


Figure 2-6 Install Camera Module

 Note

Adjust the camera vertical angle when fixing the camera module.

Step 3 Drill holes on the motorcycle rear trunk with the diameter of 4.5 mm, and then fix the sheet metal bracket B to the trunk with two washers, M4 x 38 screws, and nuts.

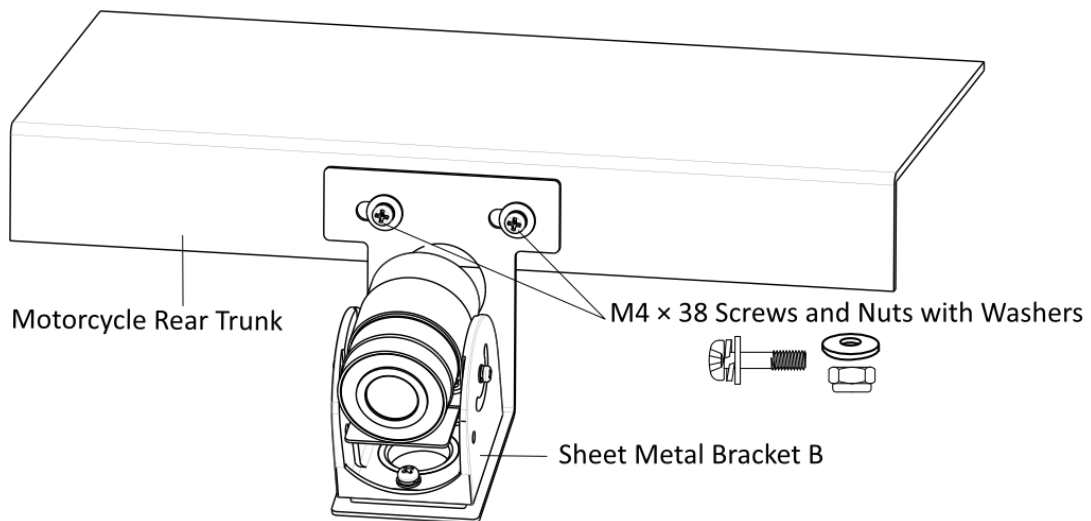


Figure 2-7 Fix Sheet Metal Bracket B

2.4.3 Install Mobile Video Recorder

Step 1 Attach two sheet metal brackets C to both sides of the recorder with eight M3 x 8 screws.

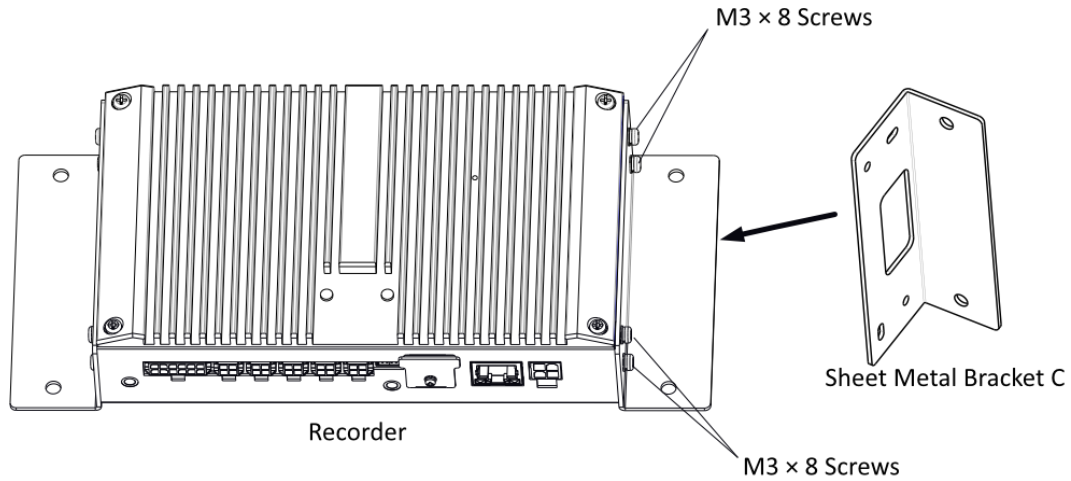


Figure 2-8 Attach Sheet Metal Bracket C

Step 2 Install the recorder on the side trunk or on the rear trunk of the motorcycle.

- To install on the side trunk:
 1. Drill screw holes on the back and front of the side trunk, and the upper and lower installation distance of the recorder should be at least 40 mm.
 2. Drill a cable hole in the corner of the trunk with a diameter of at least 50 mm for wiring.
 3. Screw in four M4 x 16 screws from the trunk back to the trunk front, and tighten the nuts to fix the recorder.
 4. Install rubber waterproof mats on the screws for waterproofing.

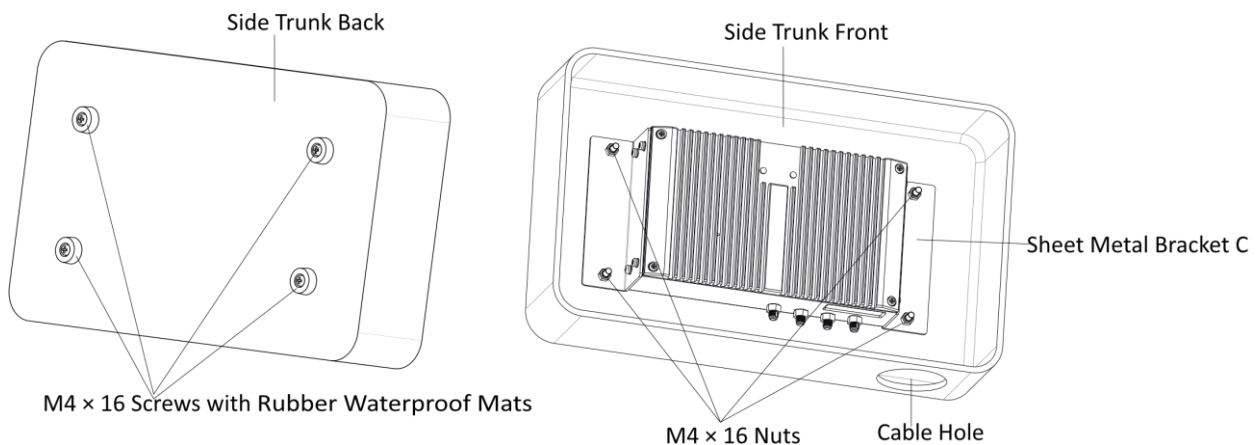


Figure 2-9 Install Recorder on Side Trunk

- To install on the rear trunk:
 1. Drill screw holes on the rear trunk, and the upper and lower installation distance of the recorder should be at least 40 mm.

2. Drill a cable hole in the corner of the trunk with a diameter of at least 50 mm for wiring.
3. Fix the recorder to the rear trunk with four M4 × 12 screws and nuts.

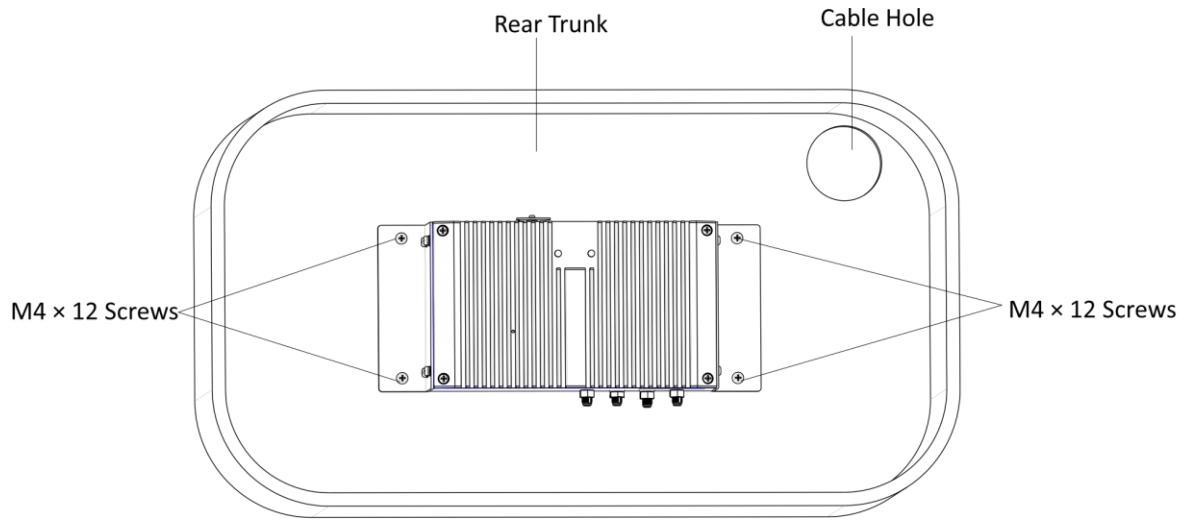


Figure 2-10 Install Recorder on Rear Trunk

Note

Try not to put anything in the trunk.

Step 3 Connect the camera cables to the record, ensuring the camera cable No. matches the camera interface No. on the recorder, and the grounding cable is connected to the grounding interface on the recorder front interface.

2.4.4 Install Antenna

Install Antenna Internally

You can install antennas inside the rear trunk if the trunk is made of plastic.

Step 1 Install the Wi-Fi and 4G rod antennas to the corresponding interfaces of the recorder with the distance of at least 60 mm from the trunk.

Step 2 Install the GPS antenna on the top of the trunk.

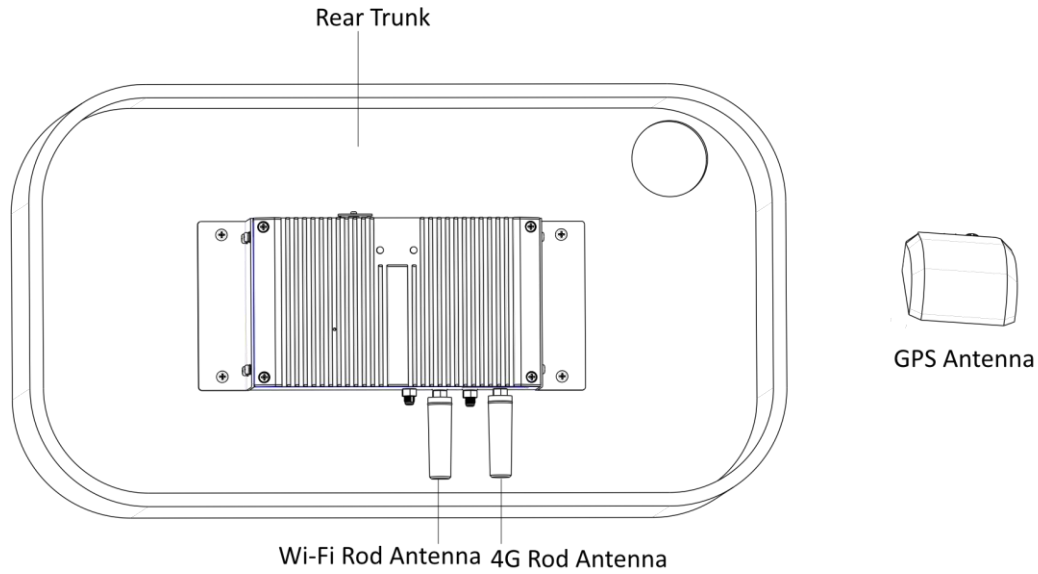


Figure 2-11 Install Antennas Internally

 Note

- The GPS antenna cannot be obstructed.
- For detailed wiring, refer to [Mobile Video Recorder](#).

Install Antenna Externally

To install antennas externally, follow the steps below.

Step 1 Attach the two PC sheets to the sheet metal bracket D as shown below, and fix them with four M3 × 8 screws and nuts.

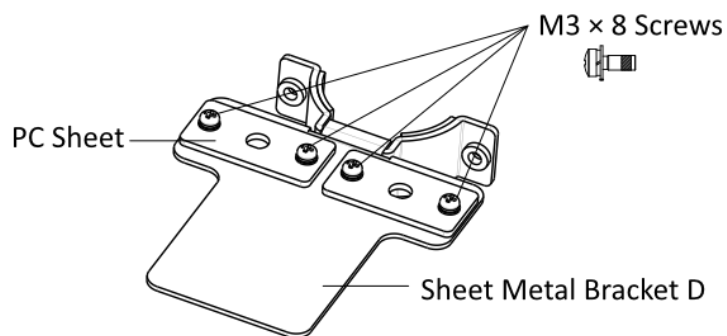


Figure 2-12 Attach PC Sheet

Step 2 Fix the rod antennas to the sheet metal bracket D with SMA (SubMiniature Version A) connectors.

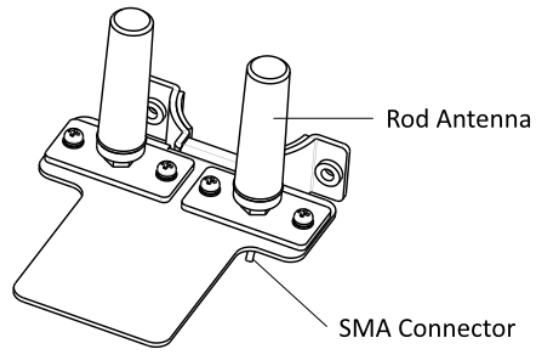


Figure 2-13 Fix Rod Antenna

Step 3 Tear off the GPS antenna bottom adhesive, and paste it to the sheet metal bracket D.

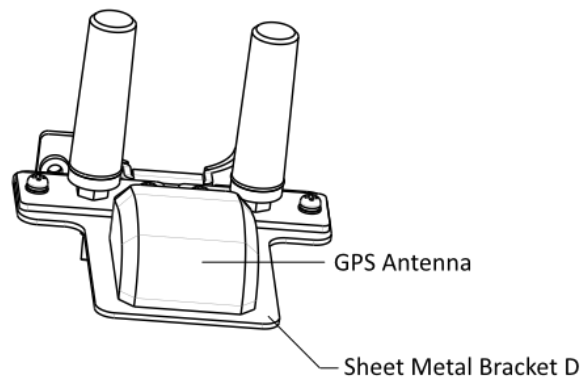


Figure 2-14 Paste GPS Antenna

Step 4 Fix the external antenna module to the vertical pole with the hoop by two M4 × 16 screws and nuts.

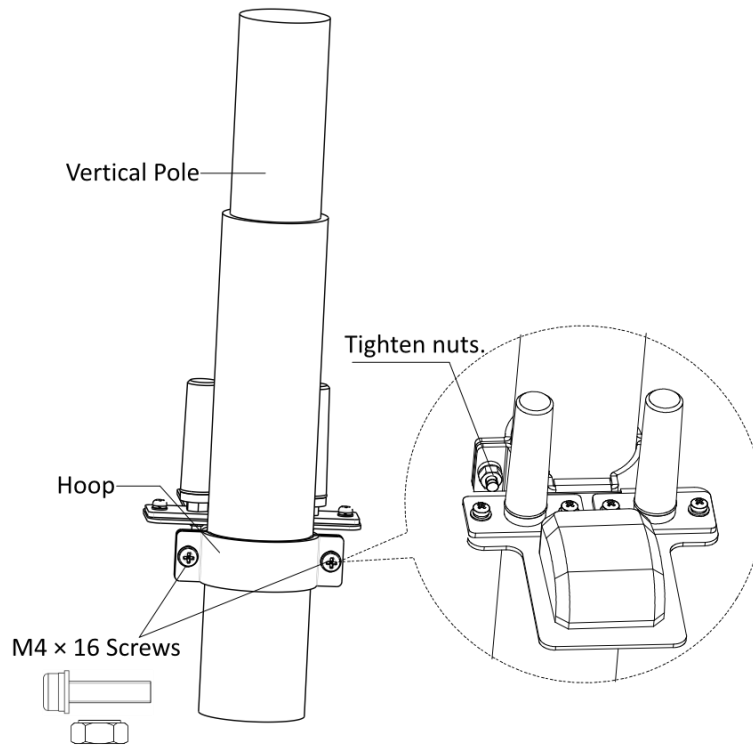


Figure 2-15 Fix Hoop

2.5 Start Up

Connect the antennas to the recorder, and then connect the recorder to the motorcycle 12 VDC power interface, and turn on the power to start it up. If the status indicator is solid green and the power indicator is solid red, the system is working normally.

Note

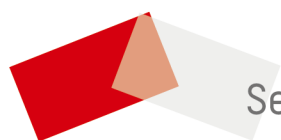
If the system fails to operate normally, check if the cable connection is normal.

Chapter 3 Detailed Configuration

Scan the QR code below to get the user manual of the system for detailed configuration.



Figure 3-1 User Manual QR Code



See Far, Go Further