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# **1. General Information**

## **1-1. Introduction**

These instructions describe the functions and operation of SNIPE4, auto skew satellite system with Remote control function. Correct and safe operation of the system can only be ensured by following instruction, both for installation and operation.

SNIPE4 is an intelligent satellite-TV reception system which can align itself towards a preset satellite automatically as long as the system is located within the footprint of the selected satellite.

SNIPE4 only occupies requisite space while it performs the necessary adjustments with slim and agile antenna body.

For general operation, please ensure that the system always has a clear view to the sky. In Europe, all satellites are in an approximate position on the equator. If the satellite's signal beam is interrupted by obstacles such as mountains, buildings or trees, the unit will not function and no TV signal will be received.

For more information on general use of this unit consult local dealer for assistance.

## 1-2. Proper use and operation

This product has been designed for portable use and fixed installation on vehicles with maximum speeds of 130 km/h. The unit is programmed to automatically aims at geostation-ary television satellites.

The power is supplied by a standard vehicle electrical system with a rated voltage of 12 or 24 Volts DC. For installations on the vehicle, use power input cable (cigarette lighter cable) to supply power. For portable use, optional power adaptor produced by SNIPE4 manufacturer must be used.

Use of the equipment for any other purpose to the one specified is not permitted.

### **Please also note the following instructions from the manufacturer :**

- It is not possible to add or remove components on this product.
- The use of other components other than those originally supplied is not permitted.
- To complete installation, installer must strictly follow instruction in the supplied user manual. Failure to follow the user manual may cause damage to the unit or user's vehicle.
- The product does not require any regular maintenance; all service must be carried out at approved service centers.
- All relevant guidelines of the automotive industry must be observed and complied with.
- The equipment must only be installed on solid vehicle roofs.
- Avoid cleaning user's vehicle with the mounted satellite system in a drive-through car wash or a car wash with a high-pressure cleaner.

## 1-3. Safety notes

Please carefully read and follow the operating instructions in this manual and use the SNIPE4 for its intended purpose.

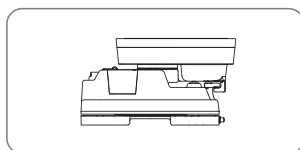
Upon installation of SNIPE4, please ensure the installation is done with supplied cables and ensure the cables are not modified in any way.

As the user of this equipment, be responsible for ensuring compliance with the relevant laws and regulations.

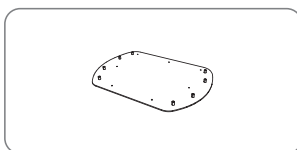
The manufacturer does not take liability for direct or indirect consequential damage of the system, motor vehicles or other equipment by reason of unsuitable battery usage or erroneous installation or wrong wire connection.

## 2. Contents

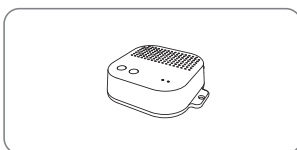
### 2-1. Accessory included



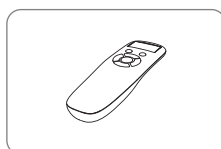
Main unit



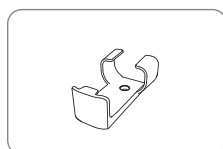
Mounting plate



PI box



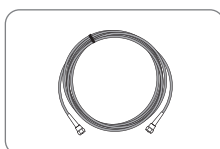
Remote control



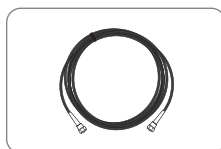
Remote control bracket



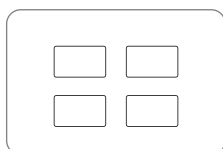
Cigarette lighter adaptor



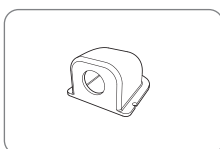
Signal cable -10m  
(x2 for twin outputs)



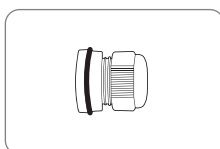
PI cable - 1.5m



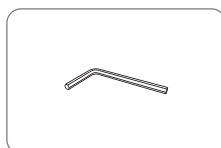
Base pads



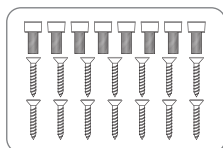
Cable holder



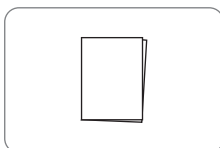
Cable gland



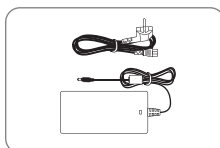
Allen wrench



M6 x 15(8), M4 x 20(14)



User manual

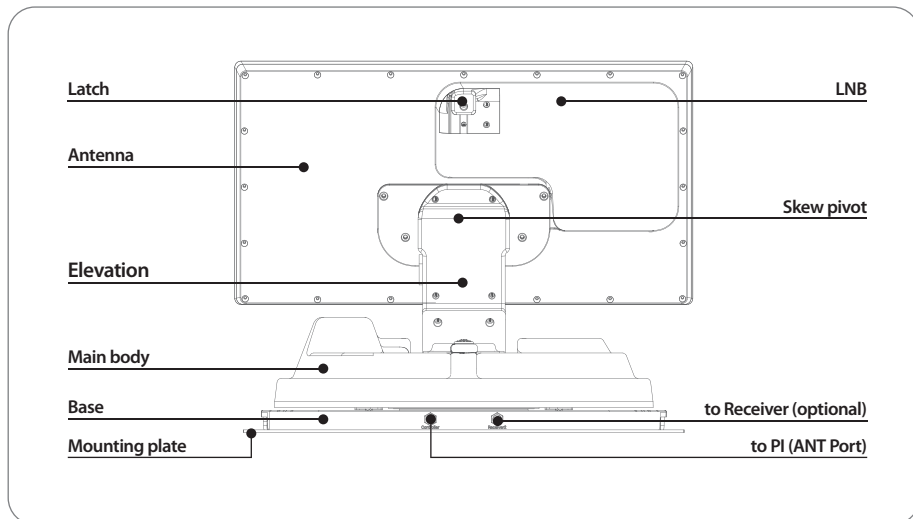


Power adaptor  
(Optional)

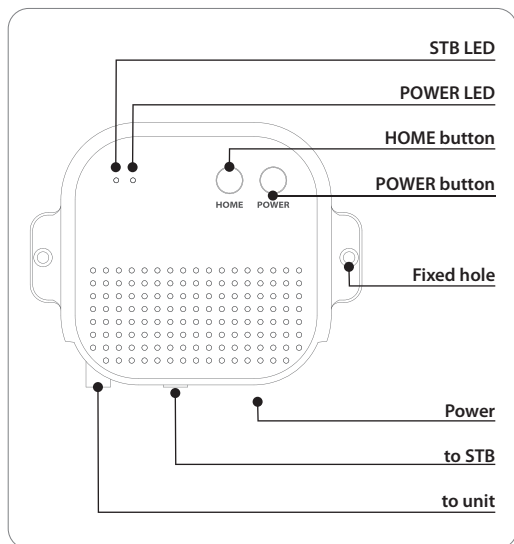
- ※ Actual components may differ from the above images.
- ※ The unit enables to have power from car battery. To make power input cable for direct connection, cut off cigarette lighter adaptor and peel off to take copper cables out.
- ※ Only power adaptor produced by SNIPE series manufacturer is guaranteed and has be used.
- ※ Power adaptor has to be purchased separate. Please ask to local dealer/shop for more information.

## 2-2. Name of parts

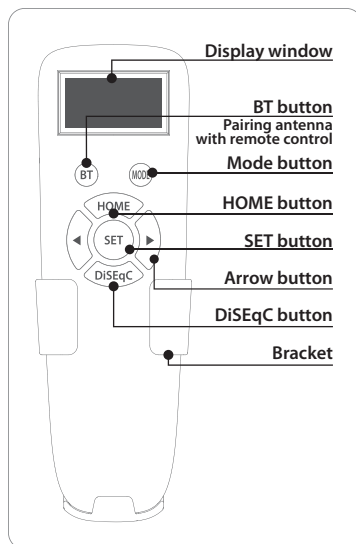
### Main unit



### PI box

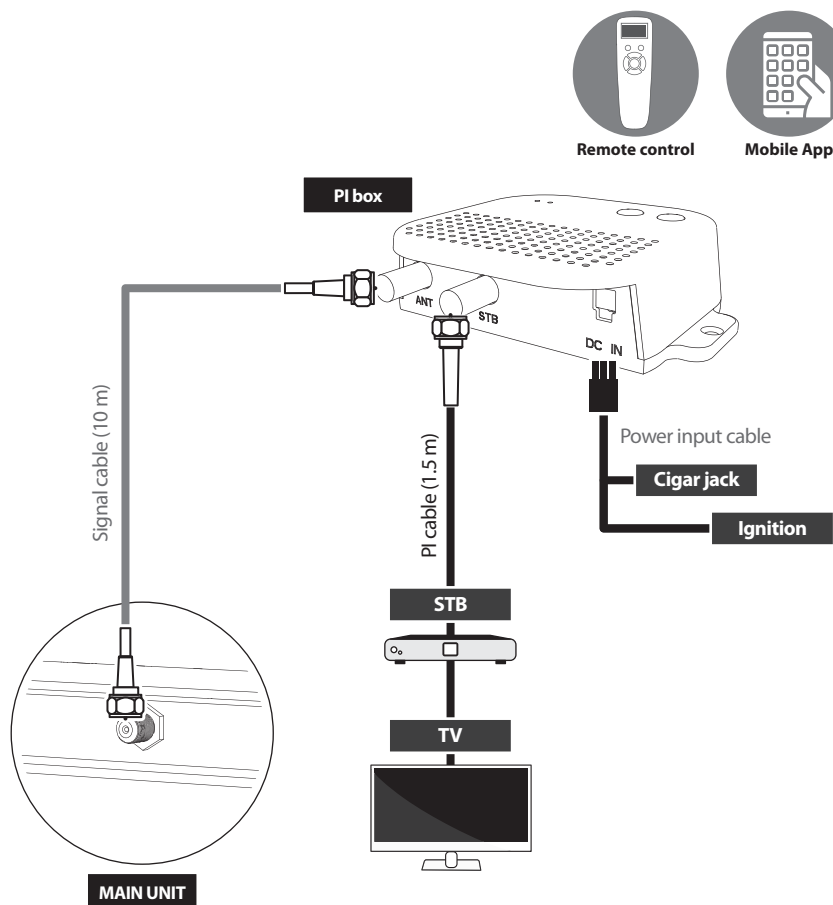


### Remote control

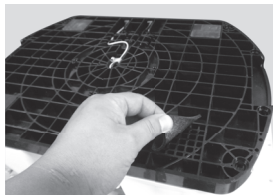


## 3. Operating Instruction

### 3-1. Connection diagram



**Turn on the PI power after all cables connections are complete.  
When not using the antenna, turn off the PI power.**

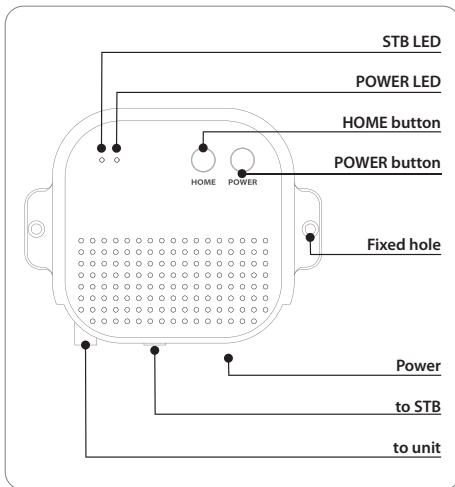


#### Portable use

Attach four(4) base pads to the bottom of antenna base.

## 3-2. Functional description

### 1. PI box



#### A. Button and LEDs

##### i. POWER Button

- Press the POWER button to turn on the PI box, and power to the antenna unit. (Power LED ON)
- Press and hold for more than 3 seconds to turn off the power. (Power LED OFF)

##### ii. HOME Button

- When the Home button is pressed, the antenna moves to the home position

##### iii. STB LED

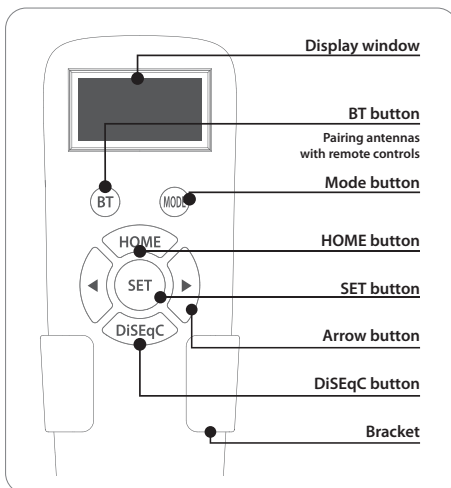
- When the power of the set-top box connected to the PI BOX is turned on, the STB LED turns ON

#### B. Basic Features

##### i. Power save mode

- When receiving a broadcast signal or when the antenna is in the home position, the antenna operates only with the current from the receiver
- When searching for a satellite or when the antenna moves, it automatically changes to the power connected to DC power adapter

### 2. Remote control



#### A. Button and LEDs

- When not used for more than 1 minute, it enters the power saving mode. (When the battery is inserted in the remote control)
- To return from sleep mode, press any button except DiSEqC button

## B. Basic Features

### CONNECTING

Remote control

Version : 00

The remote control automatically searches for nearby antenna unit.

If there is an antenna that has been connected before, connect it immediately

### SELECT MAC

P - 09 : 39 : E4

PRESS SET

When use antenna and remote control for the first time or when you delete the antenna list stored in the remote control, a list of products that can be connected will appear.

Press the left and right buttons on the remote control to select the MAC Address of your antenna unit, and press the SET button to connect to the remote control

P - 39 : E4

Connected

When the remote control and the antenna are connected, a "connected" message appears.

P - 39 : E4

ASTRA 1

Home

The MAC Address of the connected antenna, the satellite name set for the antenna, and the current status are displayed.

Press the left or right arrow button to select the desired satellite and press the SET button to search for the satellite.

HOME - When the antenna is in the home position

Searching - When the antenna is searching for satellites

Found SAT - When the satellite search is complete

Mov To Home - the antenna will move to the home position.

P - 39 : E4 D

DiSEqC ON

Home

Pressing the DiSEqC button changes the DiSEqC settings of antenna unit. DiSEqC mode is indicated by D mark in the first line.



### C. Additional settings

#### i. BT button

- a. Press BT button to change to BT setting screen. Press the arrow to move to the desired function and set with the SET button

**BT SET**

**REMOVE MAC**

**PRESS SET**

Delete the MAC Address of antenna stored in the remote control.  
Used to connect to other products

**BT SET**

**R**

**REFIND ON**

**PRESS SET**

Research function can be turned on / off.  
The research function is a function that automatically moves the antenna to the position of the last received satellite signal when the receiver is turned on.  
When the Research function is turned on, R mark in the first line

**BT SET**

**R/C Update**

**PRESS SET**

Used to update the remote control firmware.  
Press the SET button to restart the remote control in update mode

- b. Press and hold BT button for more than 5 seconds to reset the remote control

### D. Error message

**P - 39 : E4 D**

**ASTRA 1**

**Error 6F**

If an error occurs during operation, the error number appears with the error statement.

The errors message are shown in the table below.

<b>0x00</b>	<b>Not indicated</b>
<b>0x6A</b>	<b>Home position</b>
<b>0x6B</b>	<b>AZ Motor movement</b>
<b>0x6C</b>	<b>EL Motor Movement</b>
<b>0x6D</b>	<b>SK Motor Movement</b>
<b>0x6E</b>	<b>NID Check fail</b>
<b>0x6F</b>	<b>Tuner lock fail</b>
<b>0x70</b>	<b>EL LIMIT Error</b>
<b>0x71</b>	<b>EL Down switch error</b>

### 3-3. Quick reference

1. Turn on the remote control and select the unit that matches the MAC Address of your antenna.
2. Use the left and right arrow buttons to select the satellite and press the SET button.
3. Wait for the message 'FOUND SAT' to appear on the remote control screen.
4. When the satellite search is complete, watch the broadcast.



#### **WARNING**

When you physically move unit, the unit must be returned to HOME position to prevent damage.



#### **NOTE**

SNIPe4 will be automatically folded back to HOME position if vehicle moves faster than 30km/h when the unit is powered.

SNIPe4 supports the ignition function. If the ignition cable is connected, the antenna automatically moves to the home position when the vehicle starts.

## 4. Software Upgrade

### 4-1. Upgrade via the app

- a. Download and install the Sat Connect app from the App store
- b. Turn on the antenna power (Turn on the receiver power and PI BOX)
- c. Connected the application with the antenna
- d. Select FW UPGRADE from the menu to update the antenna
- e. UPGRADE takes about 5 minutes

## 5. Trouble Shooting

There are a number of common issues that can affect the signal reception quality or the operation of the unit. The following sections address these issues and potential solutions.

### A. No function when power on the antenna

- i. Check again all the cable connections have been made correctly.
  - Connection between the power and the PI box.
  - Connection between the PI box and antenna.
- ii. Check if the power input cable has been damaged.
- iii. Check the battery polarities (+/-).
- iv. Check if the PI Box is powered on (Check Power LED of PI BOX is on)

### B. The remote control does not turn on

- i. Try pressing any button other than the DiSEqC button.
- ii. Check if the battery is properly inserted.
- iii. Check if the remote control's battery is exhausted.

### C. Fail to search the selected satellite

- i. Satellite signals can be blocked or degraded by buildings, trees.  
Make sure there are no obstructions in a southward direction.
- ii. Select another satellite as example Astra3, if this locks then select your desired satellite. ie Astra1.
- iii. Turn the unit off and then back on again and select desired satellite.

### D. Mechanical problems

- i. If the antenna does not move into desired position.
  - Try to power OFF/ON again.
- ii. If the antenna makes a noise whilst remaining static.
  - Try to power OFF/ON again. If problem persists, please contact local dealer/shop for assistance.

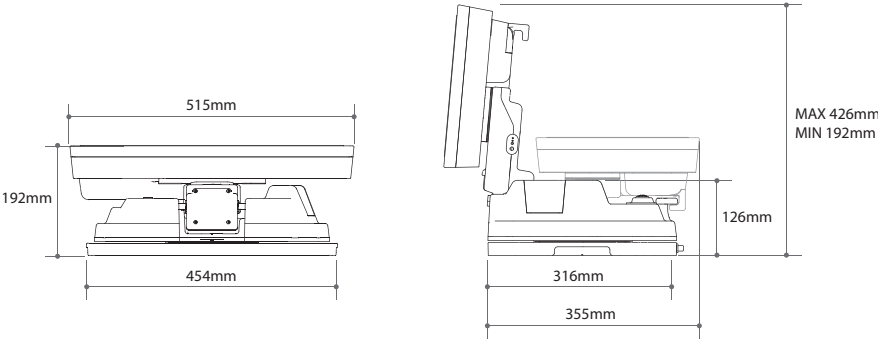
### E. Other issues

- i. If the system has been improperly wired, it will not operate properly. Contact local dealer/shop for assistance of cable damage.

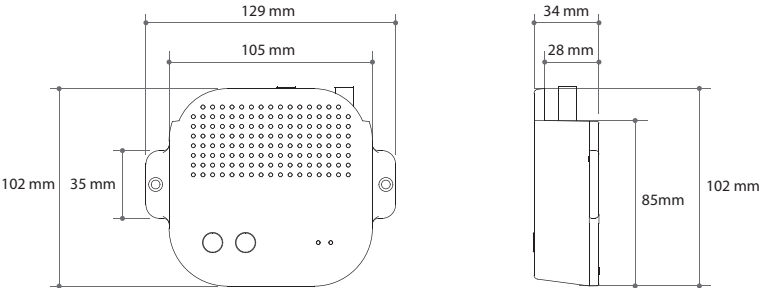
# 6. Specifications

## 6-1. Dimension

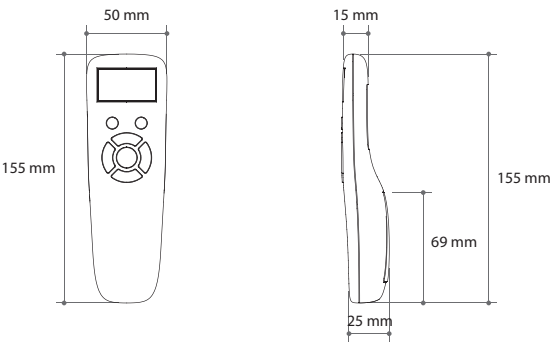
SNIFE4



PI box



Remote control



## 6-2. Specifications

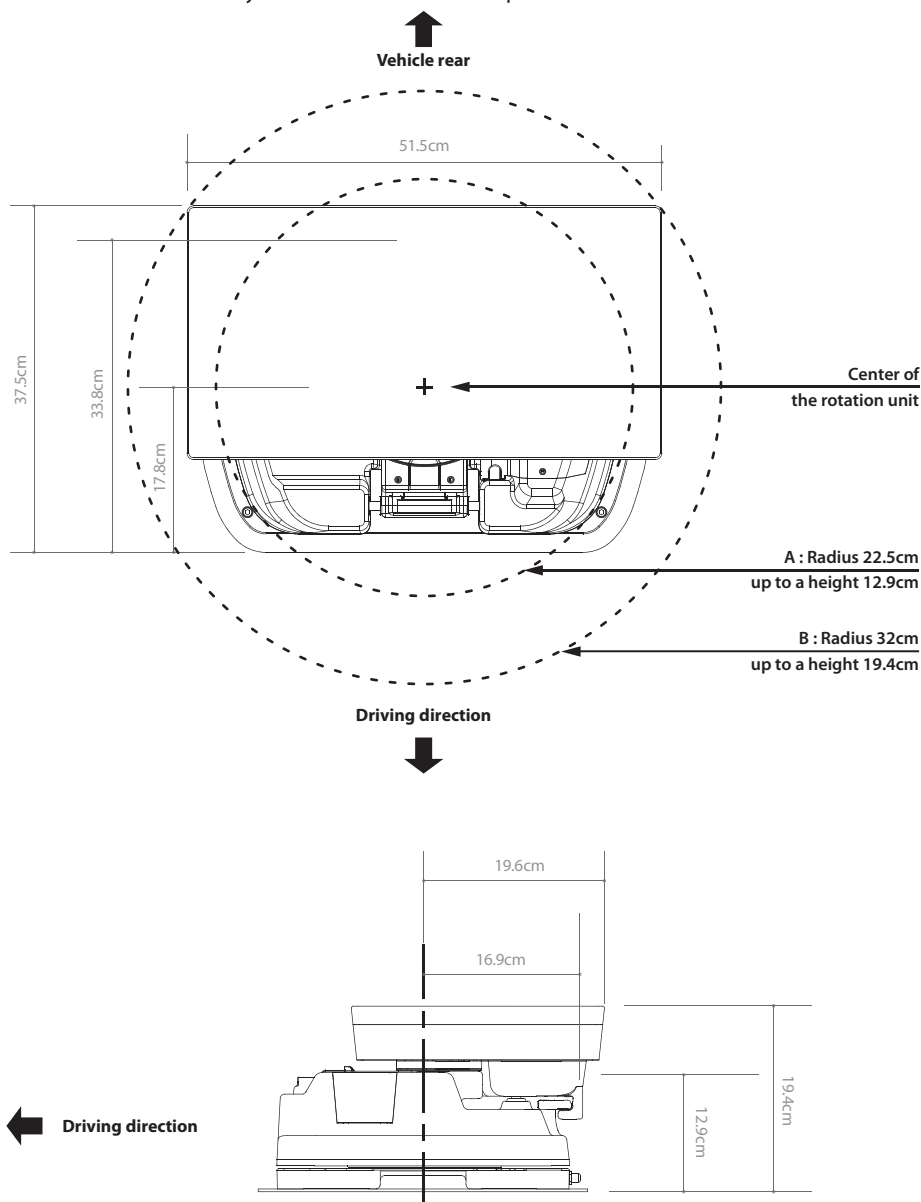
<b>Model</b>		<b>SNIPE4</b>
<b>Input Frequency</b>		10.7 ~ 12.75 GHz
<b>Polarization</b>		Vertical & Horizontal
<b>Antenna Gain</b>		33.7 dBi @ 12.7 GHz
<b>Size (W x D x H)</b>		(ANT) 515 X 355 X 201 mm
<b>Weight</b>		(ANT) 10.1 kg / (RCU) 23 g
<b>Min EIRP</b>		50 dBW
<b>Angle Range (EL / AZ / SK)</b>		15° ~ 90° / 360° / -45° ~ +45°
<b>Satellite Switching System</b>		DiSEqC
<b>Satellite Searching Time</b>		180 seconds (average)
<b>LNB</b>	<b>Output</b>	1 / 2 output (optional)
	<b>Output Frequency</b>	950 ~ 2,150 MHz
	<b>L.O. Frequency</b>	9.75 / 10.6 GHz
<b>Input Voltage</b>		DC 12 V
<b>Power Consumption</b>		30 W (in searching)

<b>Model</b>		<b>SNIPE4 Remote control</b>
<b>Frequency</b>		2.4 GHz
<b>Support Bluetooth version</b>		Ver 4.2 / 5.0 (the latest)
<b>BLE Gain</b>	<b>TX power</b>	up to +3 dBm
	<b>RX sensitivity</b>	down to -92 dBm
<b>Size (W x D x H)</b>		140 X 50 X 18 mm
<b>Screen size (L X H)</b>		128 X 64 Pixels
<b>Battery</b>		AAA X 2

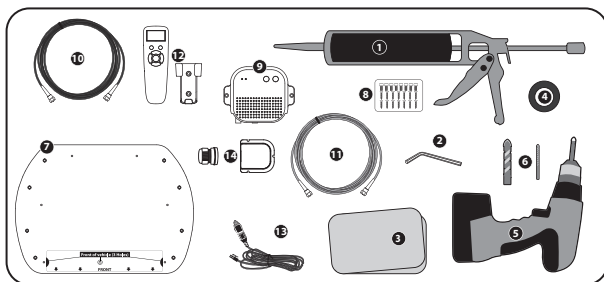
## 7. Caravan/Motorhome Installation

### 7-1 . Required space for SNIPE4

Please allow that there is enough space around SNIPE4 for flat antenna section to complete a full 360° scan of the sky and return to the HOME position.

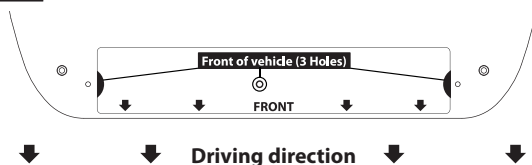


## 7-2. Equipment for installation



- ① Silicone
- ② Allen wrench
- ③ Cleaner
- ④ Masking tape
- ⑤ Power drill
- ⑥ 2mm drill bit, over 20mm drill bit
- ⑦ Mounting plate
- ⑧ M6 × 15(8) , M4 × 20(14)
- ⑨ PI box
- ⑩ PI cable (1.5m)
- ⑪ Signal cable (10m)
- ⑫ Remote controle, Remote controle bracket
- ⑬ Cigarette lighter adaptor (Power input cable)
- ⑭ Cable holder & gland

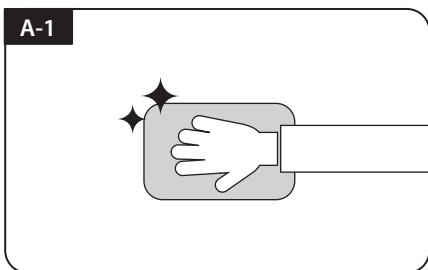
### ※ Mounting plate direction



## 7-3. Instruction for installation

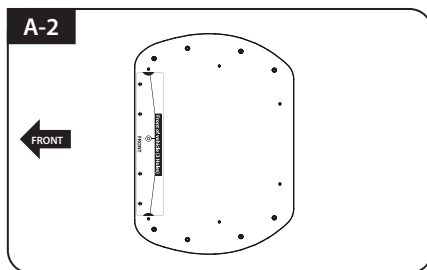
### A. Mounting plate installation on a vehicle roof

A-1



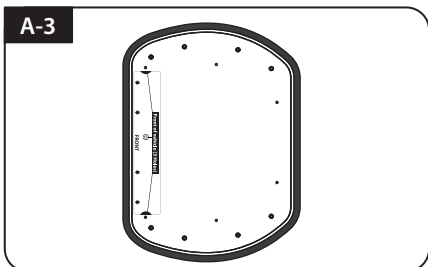
Clean the surface with cleaner

A-2



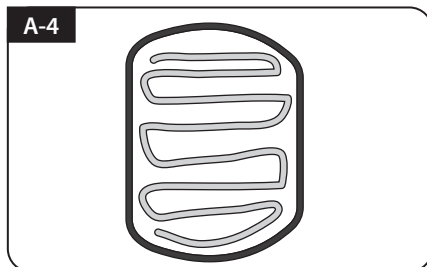
Locate mounting plate in the center of the vehicle roof

A-3



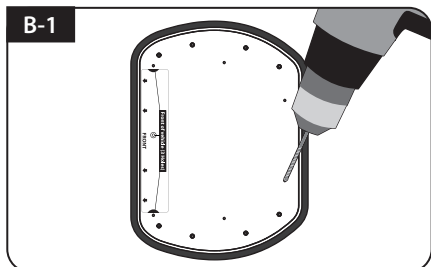
Attach masking tape outside of the mounting plate by 5mm away from the plate edges

A-4

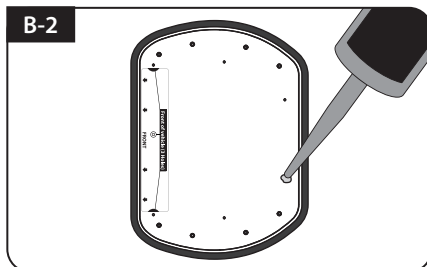


Put aside the mounting plate to apply silicone within the attached tape line but leave 2cm inward gap from the line

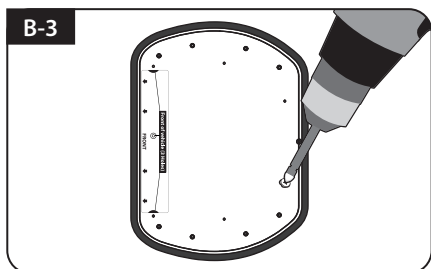
## B. Assemble 7pcs of M4x20 bolt to fix the mounting plate



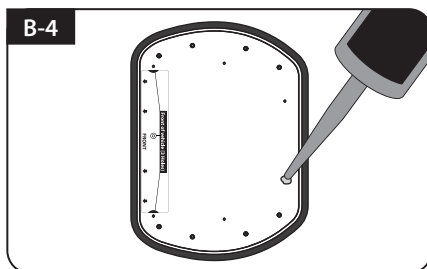
Place the mounting plate on the silicone and make 7 holes (2mm) with a power drill



Apply silicone on the holes

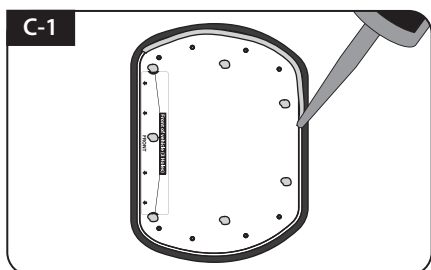


Assemble seven(7) of M4x20 screw

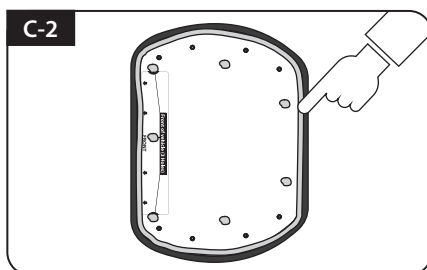


Re-apply silicone to cover bolts assembled

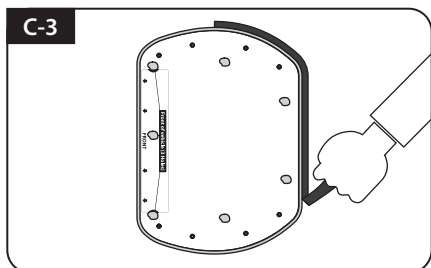
## C. Apply silicone between mounting plate and masking tape



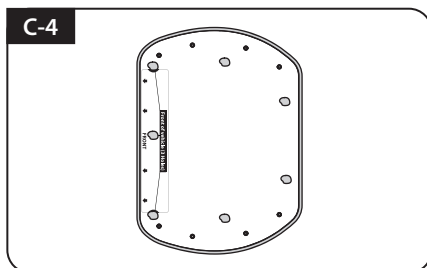
Apply silicone around mounting plate edges



Tidy silicone surface



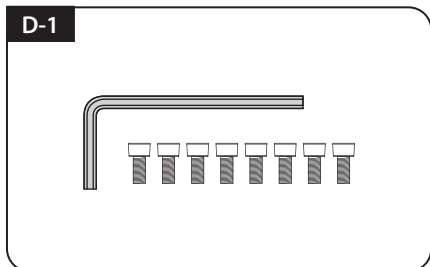
Remove masking tape and allow to dry



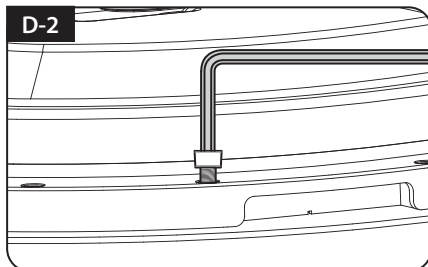
Prepare to place the antenna on to the upright bolts



## D. Fix mounting plate with 8 pcs of M6x15 bolt using allen wrench

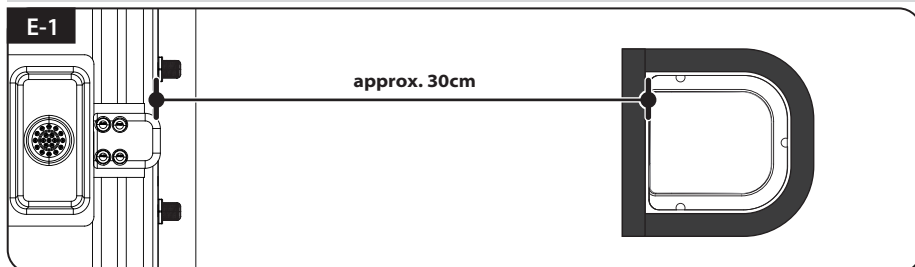


Parts required, allen wrench and eight(8) of M6x15 bolt

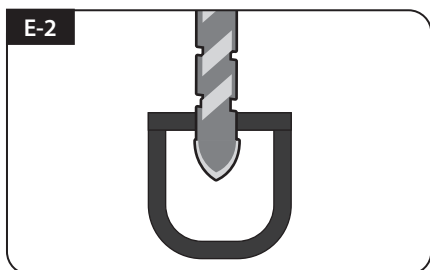


Place the antenna on mounting plate and tighten firmly each bolt by allen wrench

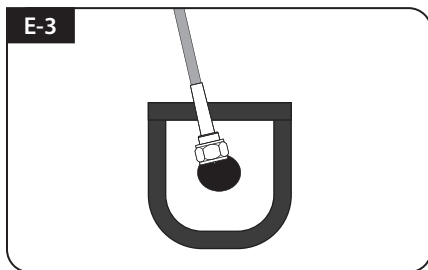
## E. Cable holder installation 1



Place cable holder 30cm away from the rear center of the antenna. Apply masking tape 5mm from away the outside of holder



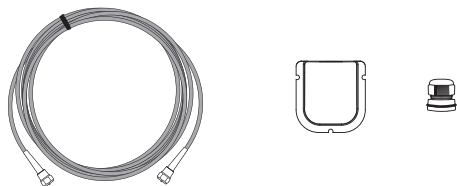
Drill a 20mm hole in the center of the tape marking



Make sure that hole size is minimum so that the cable can pass through

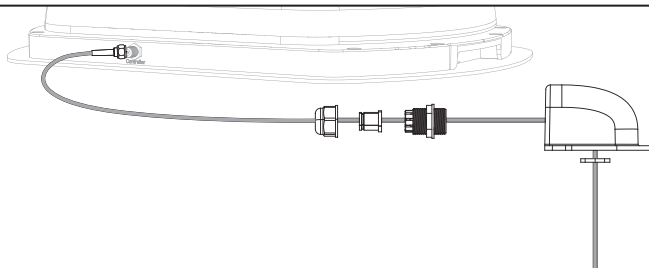
## F. Cable holder installation 2

F-1



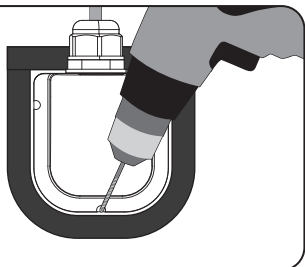
Signal cable, cable holder and gland are required

F-2



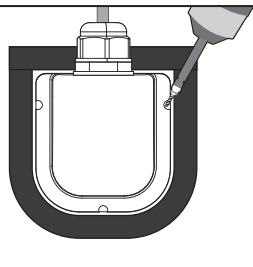
Set up required parts as above picture

F-3



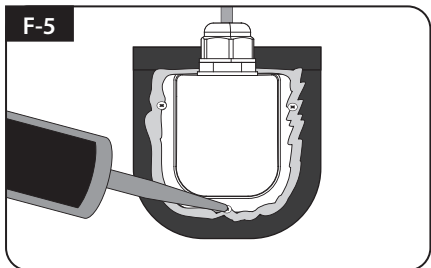
Place the assembled cable holder inside the tape marking and drill three(3) of 2mm holes

F-4



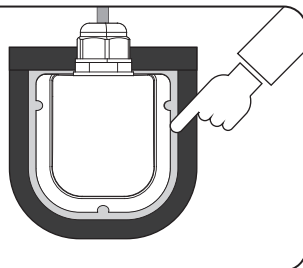
Fix cable holder on the vehicle roof with three(3) of M4 x 20 screws on drill holes made

F-5



Apply silicone around cable holder and on the top of screws for waterproof

F-6



Connect cables to the ports of the antenna , remove masking tape and tidy silicone before dry

## G. PI box and Remote control installation

G-1



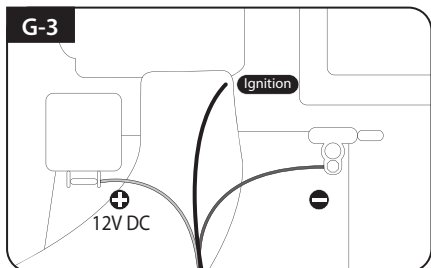
Get Power input cable and plug into cigar lighter socket (12V outlet)

G-2



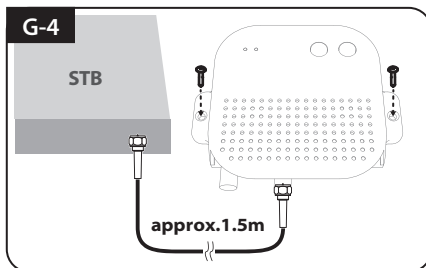
To source power from car battery, cut off cigar-jack connector to take inner three cables out and peel off each to take copper cable out

G-3



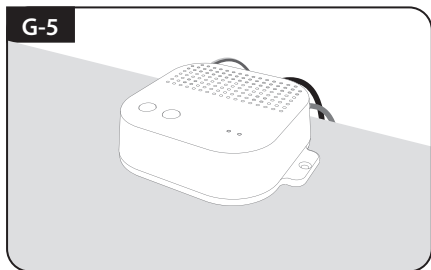
Match the power cables polarities to the battery polarities, red to red / back to black and white ignition cable to ignition port of the vehicle

G-4



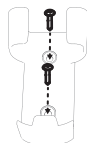
Fix PI Box where it should be fixed using two(2) of M4x20 screw

G-5



Connect power-PI box-receiver using cigarette lighter adaptor and PI cable

G-6



Fix Remote control bracket where it should be fixed using two(2) of M4x20 screw

