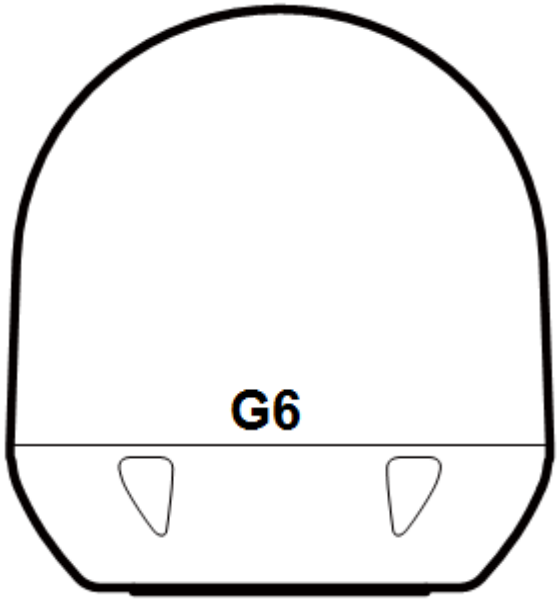
TRAVELVISION
SATELLITE ANTENNAS

Travel Vision G6

Marine Satellite TV Antenna

Installation & Operation Manual

Ver 1.4 April 2020



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Safety Notice

Do not operate the product in an explosive atmosphere.

Do not operate the equipment in the presence of flammable gases or fumes. Operation of any electrical equipment in such an environment constitutes a definite safety hazard. Keep away from live circuits

Operating personnel must not remove equipment covers. Component replacement and internal adjustment must be made by qualified maintenance personnel. Do not replace components with the power cable connected. Under certain conditions, dangerous voltages may exist even with the power cable removed. To avoid injuries, always disconnect power and discharge circuits before touching them.

Do not service or adjust alone

Do not attempt internal service or adjustments unless another person, capable of rendering first aid resuscitation, is present

Observe marked areas

Avoid placing the product close to cigarettes, open flames or any source of heat.

Observe marked areas

Under extreme heat conditions do not touch areas of the terminal or antenna that are marked with this symbol, as it may result in injury

Distance to other equipment

Do not move the antenna closer to radars than the minimum safe distance specified in the installation manual - it may cause damage to the antenna. Minimum safe distance 1.2m.

Note:

Failure to comply with the rules above will void the warranty!!!

Table of Contents

Inhoudsopgave

Introduction to satellite TV antenna

Travelvision marine satellite TV antenna allows you to access “TV-Anywhere” with high quality system where you are. The Travelvision antenna is designed to automatically track and identify satellite signals using Digital Video Broadcasting.

The stylish Travelvision satellite TV antenna use automatic ABSS (Active Beam Scanning System) technology to find the satellite signal quickly in harsh weather conditions and the new Antenna Control Unit makes easy to access satellite information.

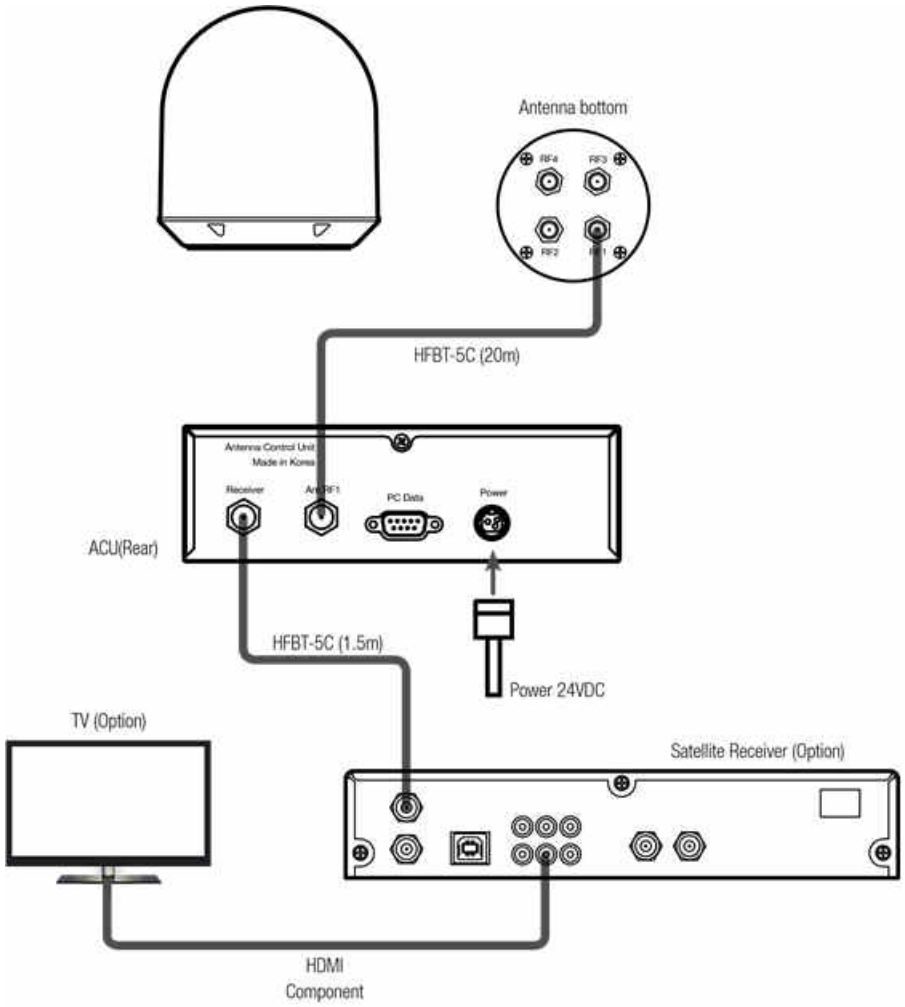
GPS equipped supports an automatic satellite acquisition

Travelvision G6 Marine Satellite TV Antenna:

- High-gain antenna with stylish radome
- Powerful tracking system using a GYRO sensor built-in
- DVB Technologies
- Easy change target satellite
- Change the target satellite by DiSEqC signal
- Skew angle varies by location of antenna
- Built-in GPS
- Built-in world satellite library

Basic System of Travelvision

To start the operation of satellite TV antenna, connections should be completed with Antenna Control Unit (ACU), satellite receiver and a television like below.



Note:

TV and IRD is not supplied by TRAVELVISION and to be provided by a Local Service Provider.

G6 Components

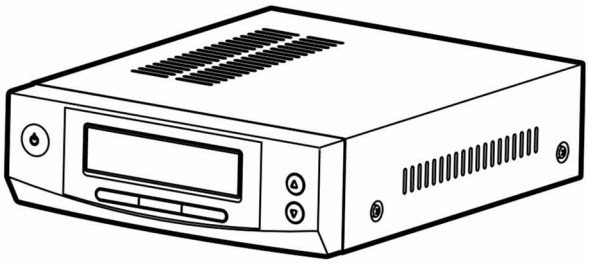
Travelvision G6 satellite TV antenna includes the following components.

Antenna

The antenna unit is comprised of the antenna mechanism, a main reflector, sub reflector, horn and LNB for the supreme signal

ACU (Antenna Control Unit)

- Monitors & controls the status of antenna
- Provides power to antenna unit
- Changes target satellite by DiSEqC signal
- Perform self-diagnosis of antenna system
- Set up antenna system using PC program

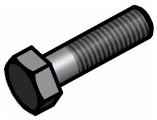


Note:

ACU mounting bracket (Ceiling or Desk fixed) are supplied together.

Accessories

- Antenna installation Bolt Kit

	Antenna			ACU	
item					
	Hex Bolt M8x40L	Spring Washer M8	Flat Washer M8	Self-Tapping Screw M4x16L	Self-Tapping Screw M3x08L
Qty	5	5	5	5	5

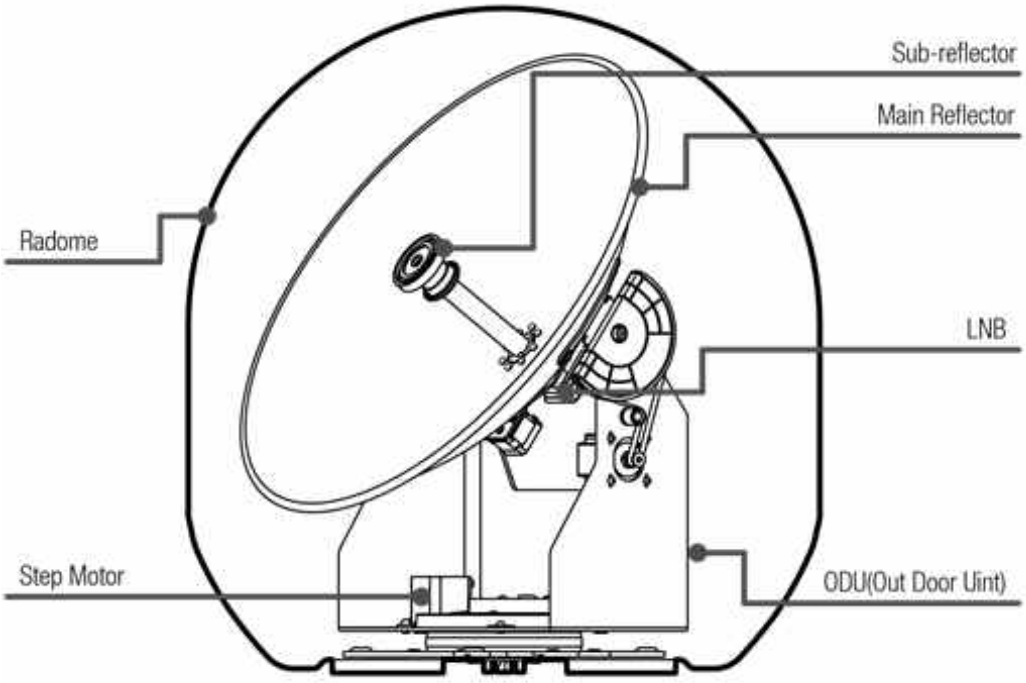
- Other Component

No.	Component	Specifications	Qty
1.	Power Supply Unit Only SMPS Type	AC100~220 VAC 50~60Hz	1
2.	AC Power Cable Only SMPS Type	1.5M (E type)	1
3.	RF Cable (Antenna to ACU)	20M (HFBT-5C)	1
4.	RF Cable (ACU to Receiver)	1.5M (HFBT-5C)	1
5.	DC Power Cable Only DCDC Type	10M	1
6.	DC Power Connector Only DCDC Type	5ESDV-3P	1
7.	ACU Table Mounting Bracket	-	2
8.	PC Program CD	-	1
9.	User Manual	-	1
10.	Quick Installation Guide	-	1
11.	Hex Bolt for antenna installation	M8x40L	5
12.	Spring Washer for antenna installation	M8	5
13.	Flat Washer for antenna installation	M8	5
14.	Self-Tapping Screw for ACU	M4x16L	5
15.	Self-Tapping Screw for ACU	M3x08L	5

List of the Supplied Parts

Structure of G6

- Reflector : Capture radio waves.
- Sub-reflector : Transmit radio waves to Horn and scanning automatically wave value to track target satellite.
- LNB (Low Noise Block) : Convert the signals from radio waves to electrical signals.
- Step Motor : Control the angle of Elevation and Azimuth.
- ODU (Out Door Unit) : Built-in the control board of antenna.
- GPS (Global Positioning System) : Support to track quickly target satellite information.
- Auto Skew System : Automatically adjusts the antenna's skew to calculate of target satellite and GPS location.

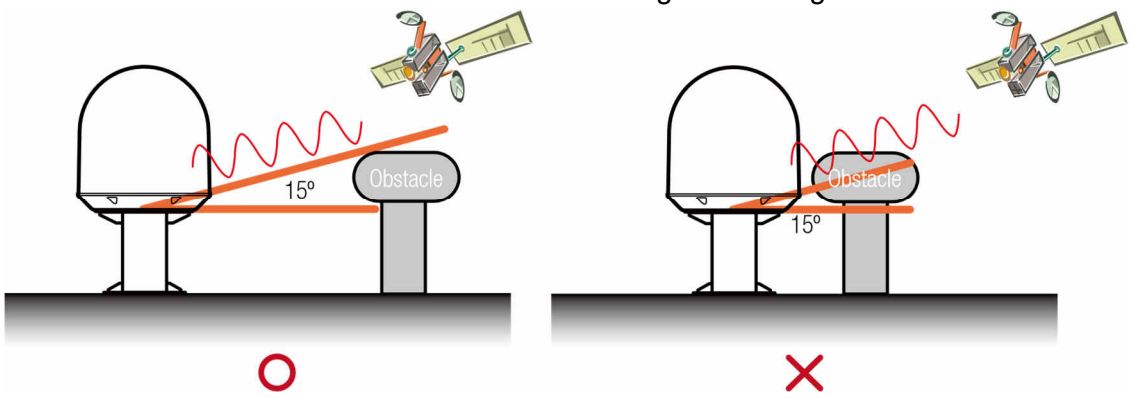


Before Installation the Antenna

Selecting location

- *Minimize blockage*

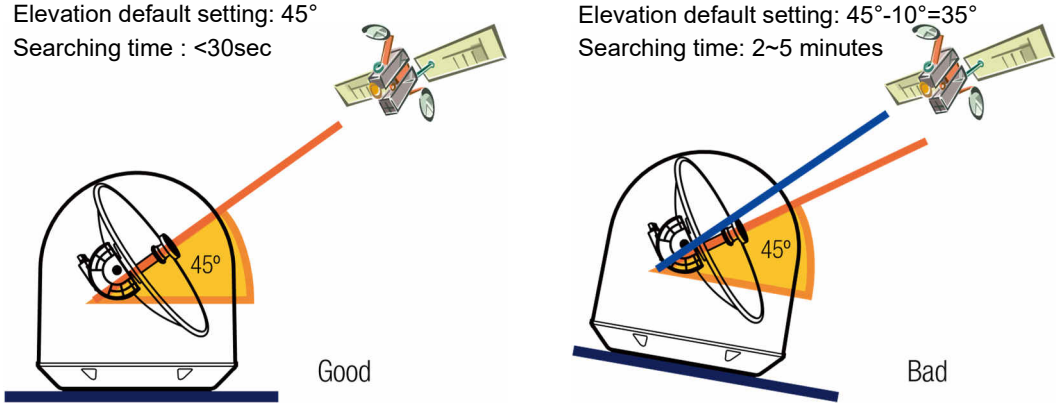
Any obstacles located above 15 degree elevation can prevent the antenna from tracking satellite signal



- *Flat platform and strong enough to support the weight of the antenna.*

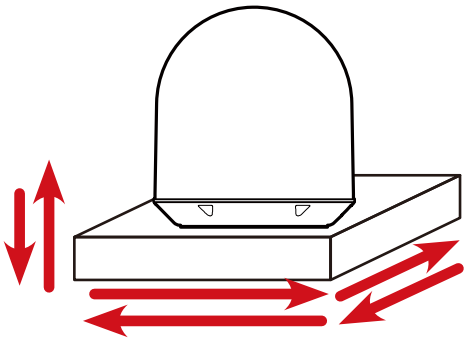
Elevation default setting: 45°
Searching time : <30sec

Elevation default setting: 45°-10°=35°
Searching time: 2~5 minutes



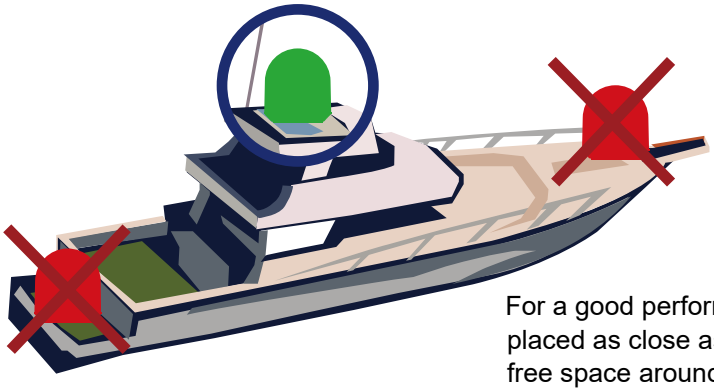
If the platform is not flat, it will increase the antenna searching time.

• *Flat platform and strong enough to support the weight of the antenna.*



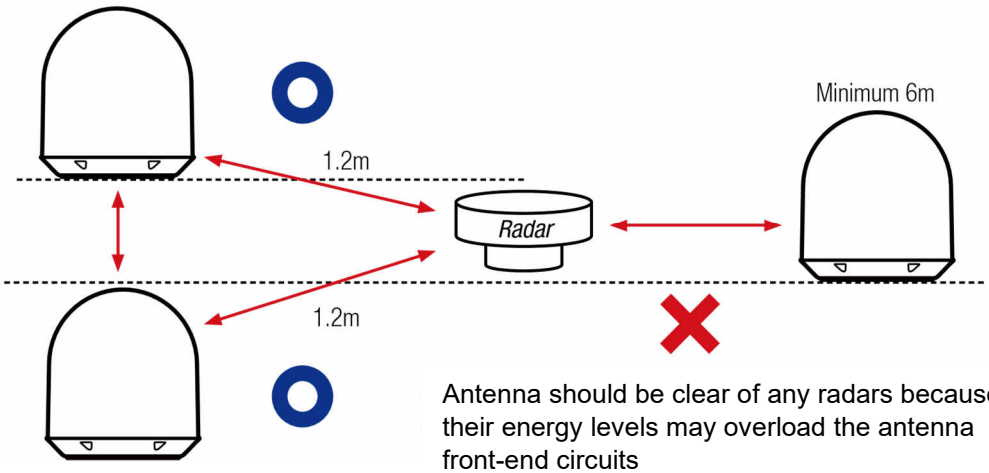
- It should be placed away from excessive vibration to avoid unnecessary motion which can affect reception

• *Near to the center of boat as possible*



For a good performance, the antenna unit must be placed as close as possible in the centerline with free space around. It should be away from the edge of the boat to avoid unnecessary motion

• *Radar interference*

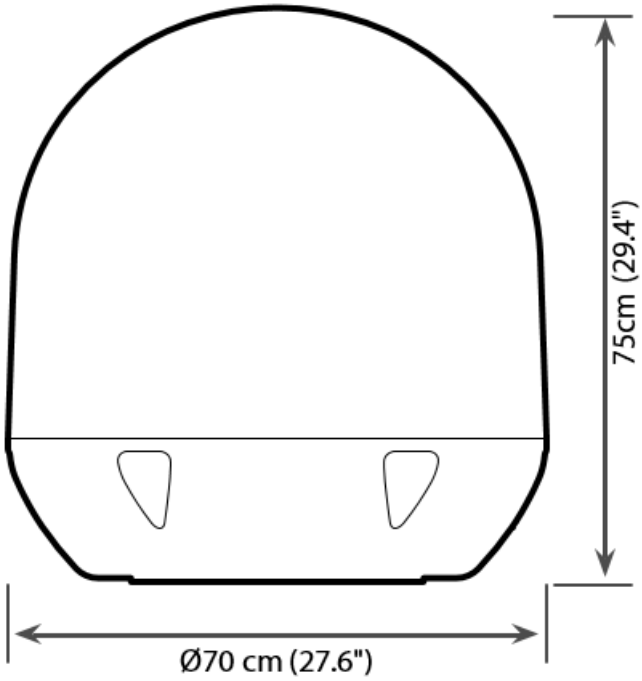


Antenna should be clear of any radars because their energy levels may overload the antenna front-end circuits

- *Confirmation of Size Prior to Installation*

  The space must be sufficient for installing the antenna unit considering the height and diameter of the antenna. The height and the diameter of the bottom surface of the antenna are as shown in the following drawing. If possible, install the antenna on strong enough steel mast.

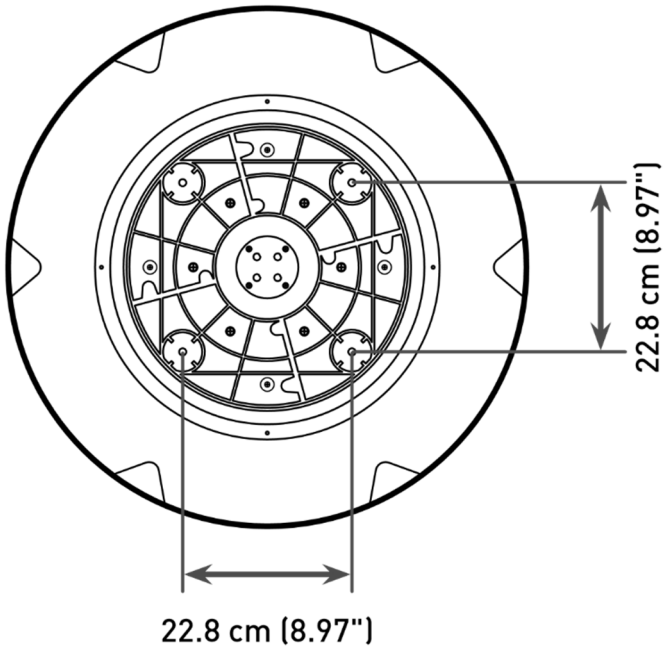
Note: Before installing the antenna, open the radome and remove the shipping constraints from the antenna interior.



- *Mark of the Antenna Mounting Position*

  Referring to the mounting template, mark where antenna will be mounted on board (it must be a flat surface) or on a separate power

Note: Mounting Bolts enclosed with the antenna should be used for the antenna installation. Use of different length of mounting bolts is prohibited.



- *Power and cable required for installation.*

Check power supply available Travelvision G6 has been designed to work with 2 type of power supply AC or DC

1. AC Type
   - Use AC/DC adopter and connect to AC power supply 110~240VAC
   - Antenna has been designed to work on power supply 24VDC

2. DC Type
   - Connect to DC supply 9 ~ 30VDC
   - Antenna has been designed to work on power supply 24VDC

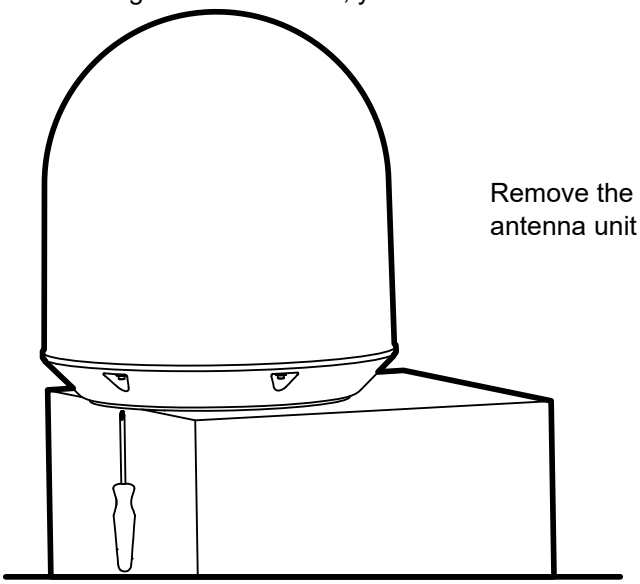
RF Cable

Before installing the system, consider the following points.

- All cables need to be well clamped and protected from physical damage and exposure to heat and humidity - Cables with severe bends are not allowed.
- Where a cable passes through an exposed bulk head or deck head, a watertight grommet or swan neck tube should be used.
- Connect RF cable between RF1 on antenna and ANT.RF1 on ACU
- RF cable is supplied at length of 20m
- Can be extended up to 50m

- *Remove the fixing bolts before installation*

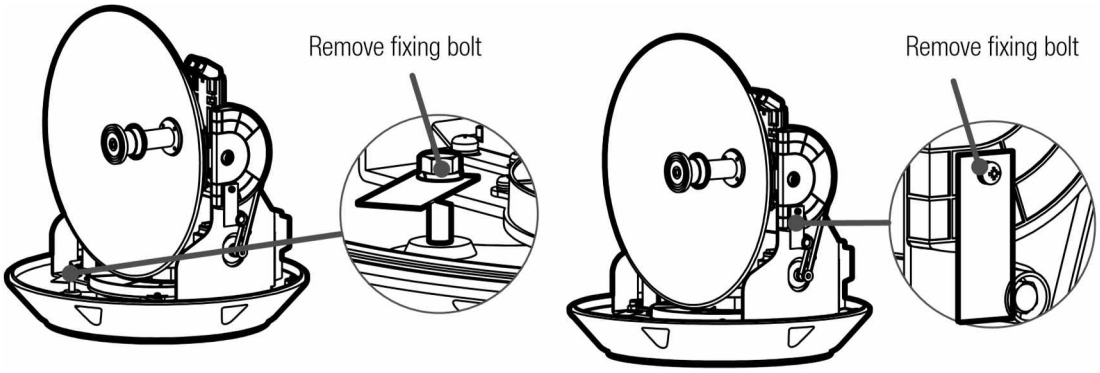
  Before installing the antenna unit, you must remove the fix bolts of the antenna inside.



Remove the 6 bolts securing the radome from antenna unit base and open the radome

- *Remove 2 bolts tagged to secure the antenna frame during the shipment.*

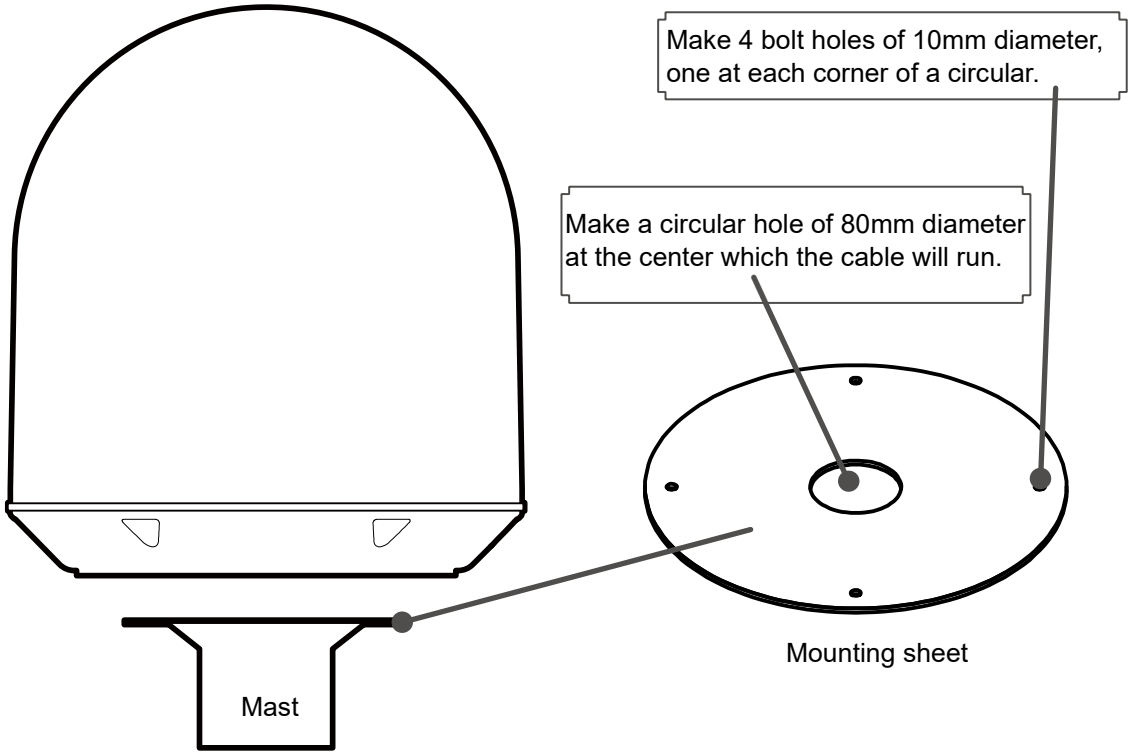
  Inspect the antenna unit for shipping damage.



Please try to operate the dish of azimuth and elevation at the end of the end of the limit switch, after removing bolts. Cover the radome with bolts tightly after checking all system

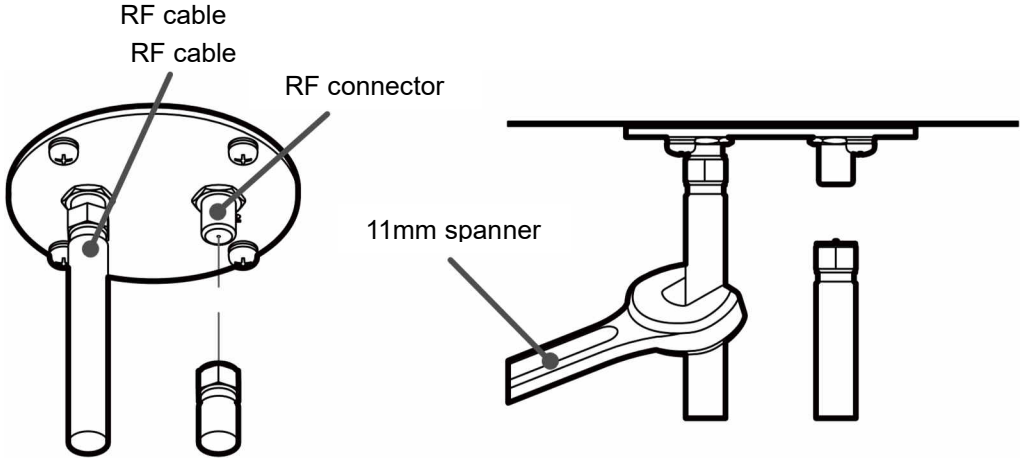
Installation antenna

- *Antenna fixing sheet*



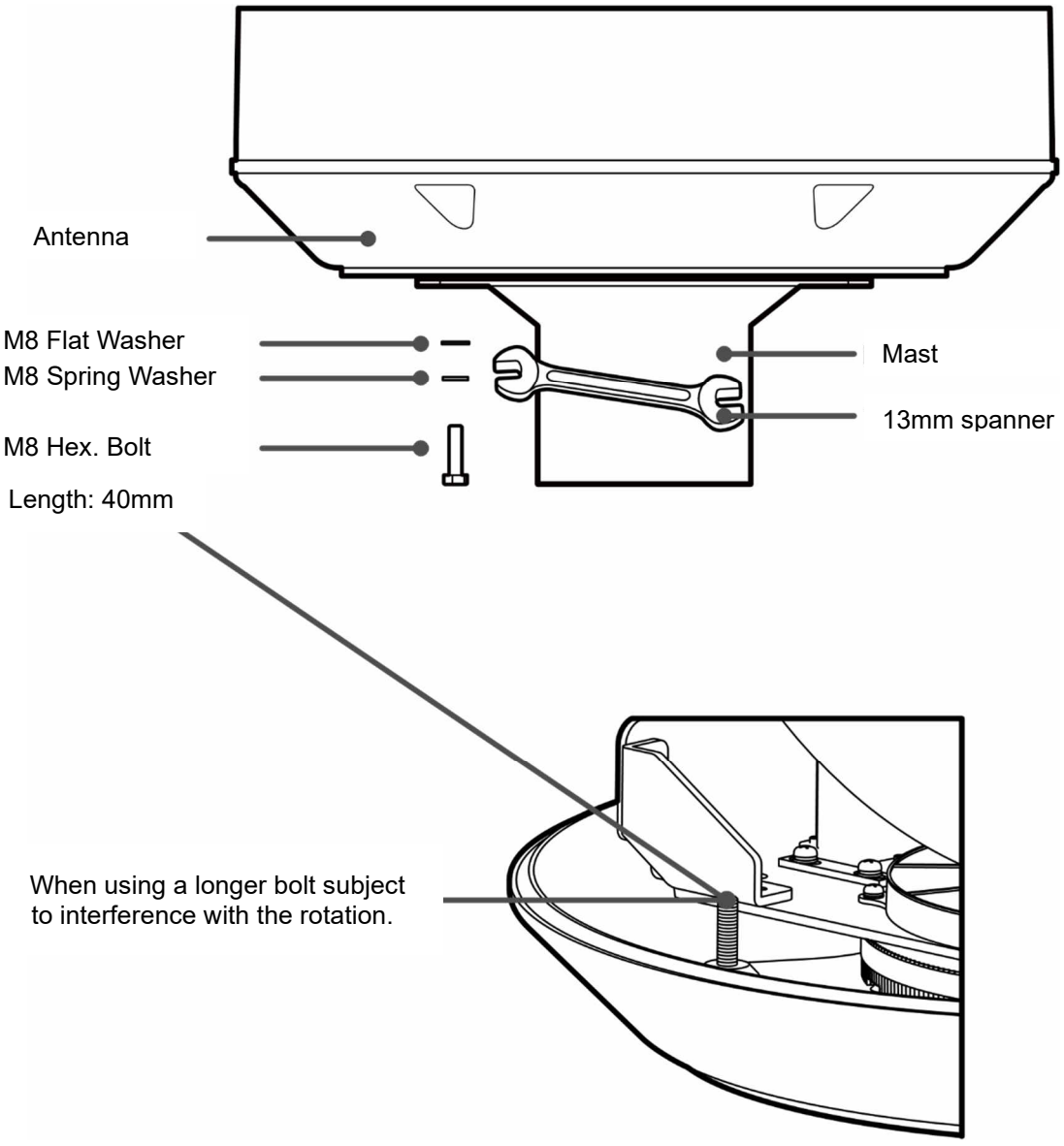
- *Connection of the Cable*

Connect the RF cable to the RF connector under the base plate through the access hole using an 11mm spanner. Be careful not to over tighten, as you may damage the connector.



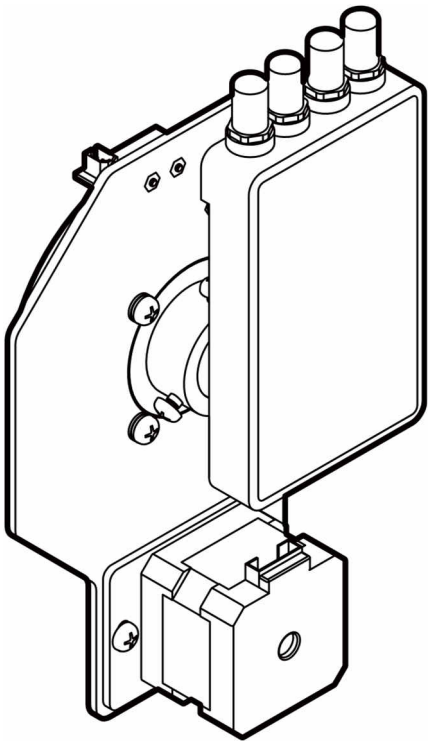
- *Mounting the Antenna*

  Attach the antenna by using the hex head bolts (M8X35L), M8 spring washers, and M8 flat washers supplied.

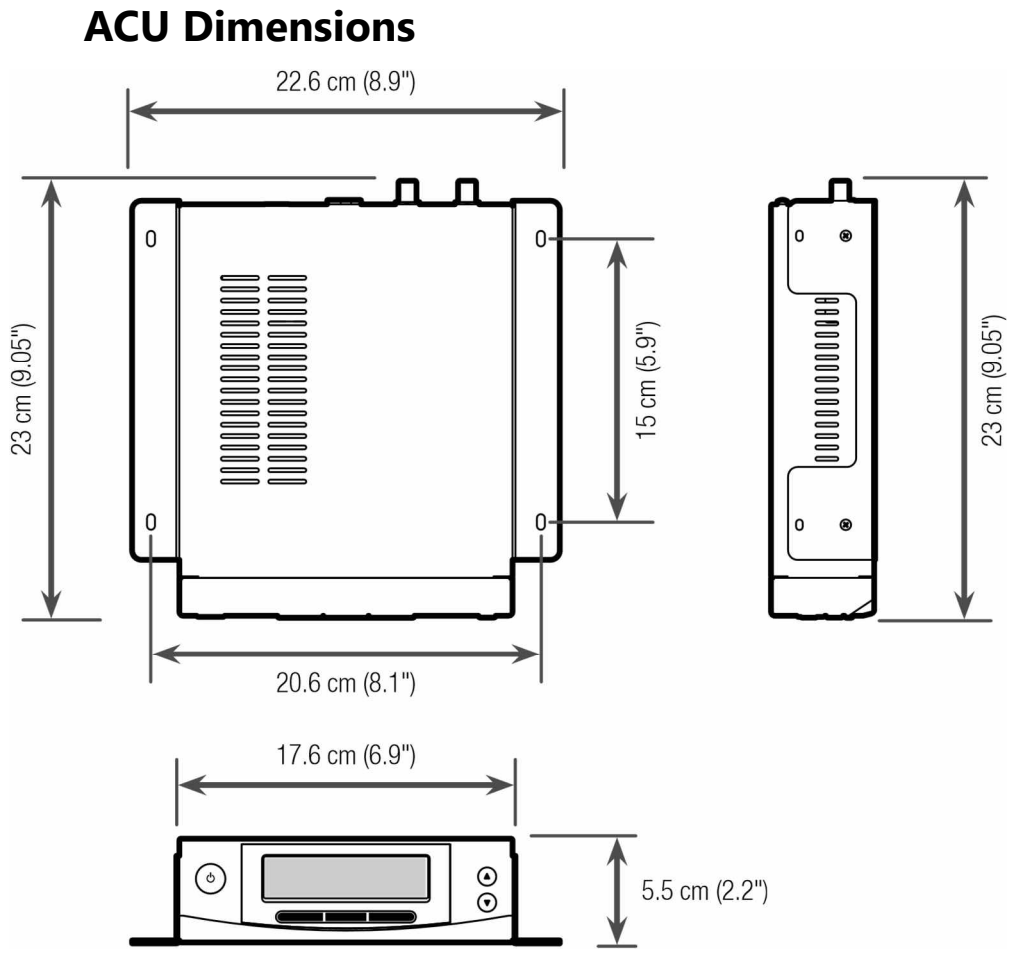


Auto skew angle control system

- G6 has an embedded auto skew angle control system.
  Therefore, manual adjustment of LNB skew angle is not required. The LNB skew angle is continuously adjusted automatically thought of the calculation of current GPS location and target satellite. The Skew angle of LNB is shown from the ACU and PC Program.



Installing of ACU

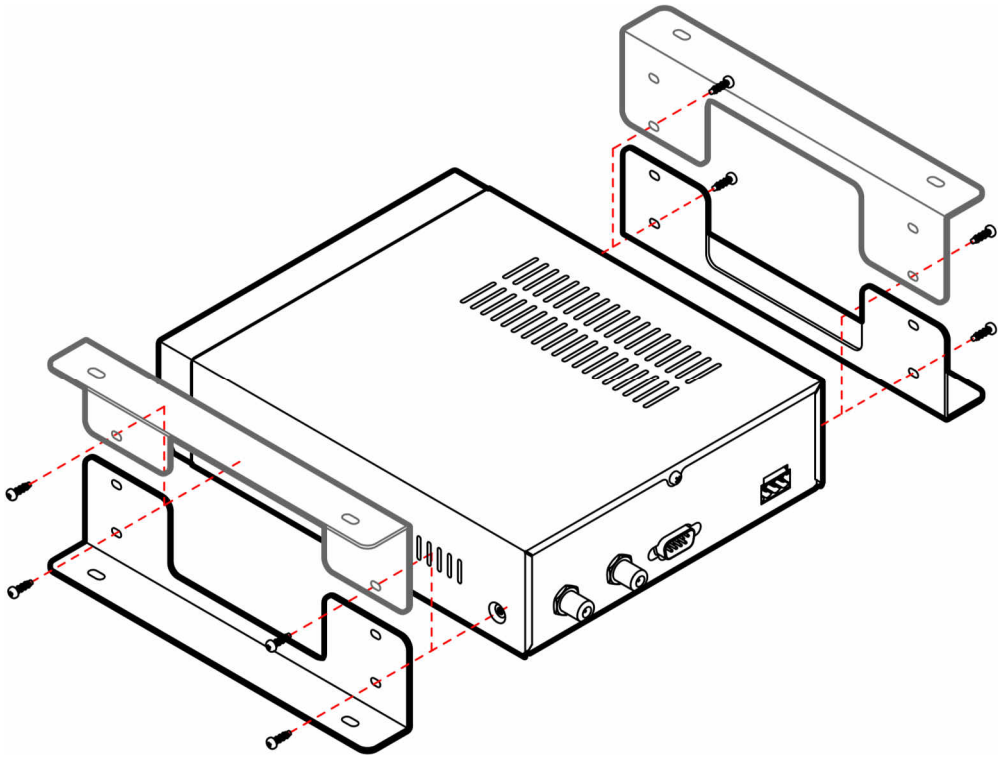


- *Selecting ACU Installation Site*

  The ACU should be installed below deck, in a location that is:
  - Dry, cool, and ventilated.
  - Easy access from your main TV viewing area.

- *To Install the ACU*

1. The ACU should be installed using the two supplied mounting brackets which allow for a top or bottom mounting configuration.
2. Using the self-tapping screws supplied, attach the mounting brackets to the sides of the ACU.
3. Place the ACU in the location where it is going to be installed.
4. Connect the cables to the rear of the ACU.
5. Use a pencil to mark the 4 hole positions (two on each side)

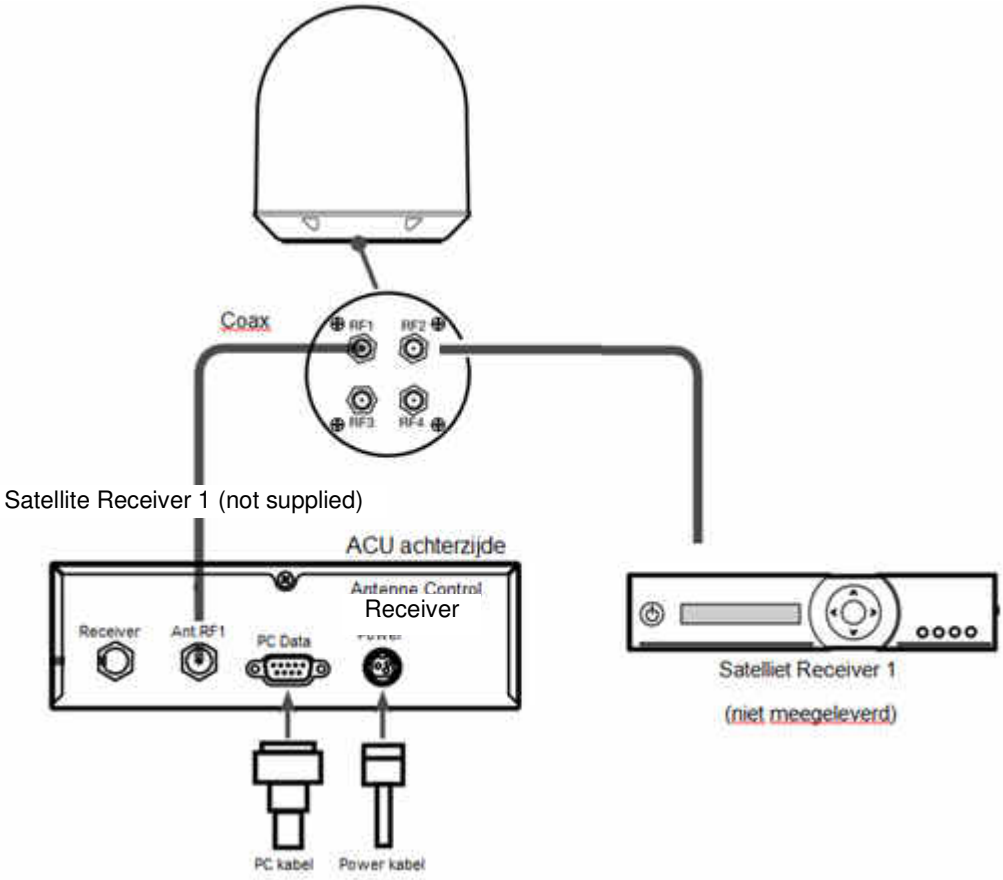


Connecting the system cable

After installation and fixation of the antenna, connect the ACU to the antenna. Refer the drawing below to connect cables.

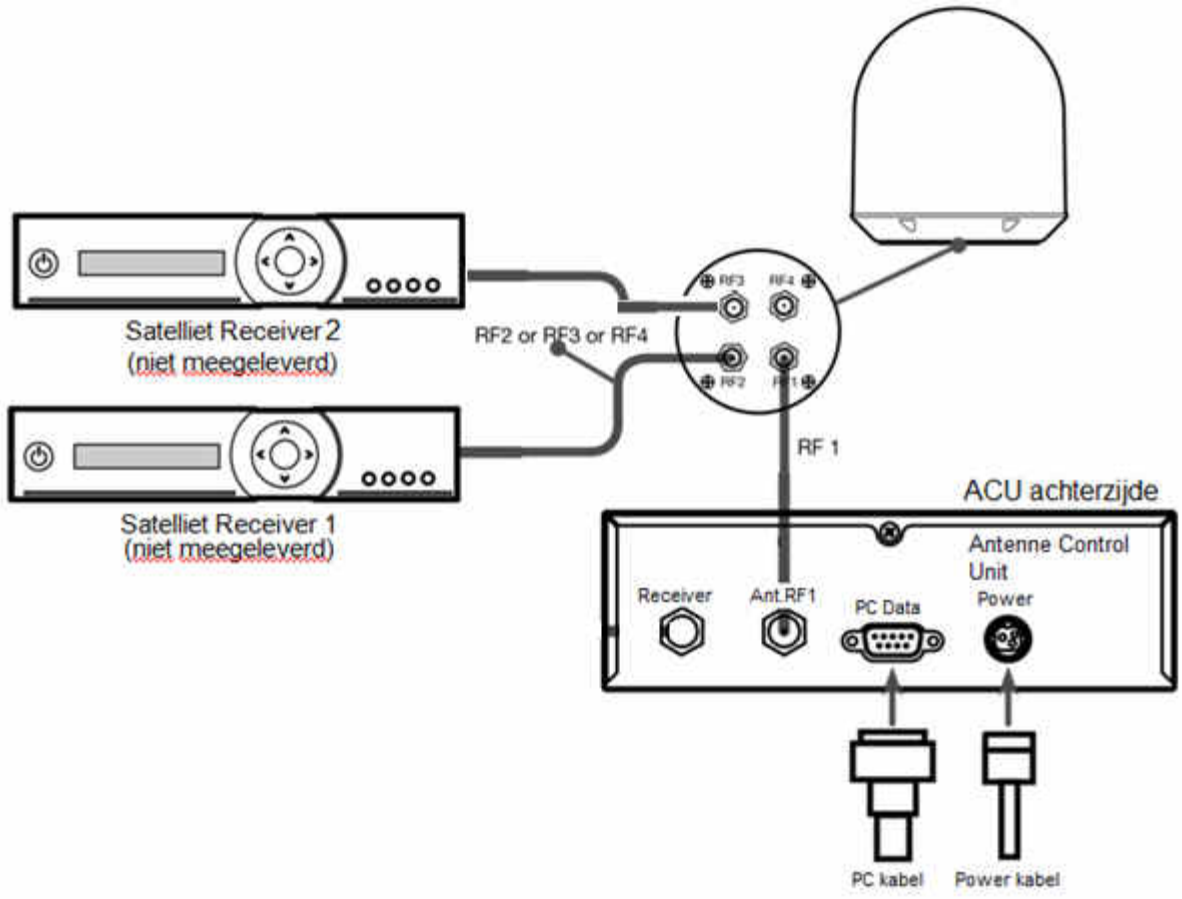
Single Receiver Connection

- Connect the RF Cable (20m) from the RF 1 connector on the antenna to the ANT. RF1 connector on the rear of ACU.
- Connect the ACU-Receiver Cable (3m) from the RECEIVER connector on the antenna to RF2 on the receiver.
- Connect the power
- Press the POWER ON switch in front of the ACU to start the operation of the antenna system.



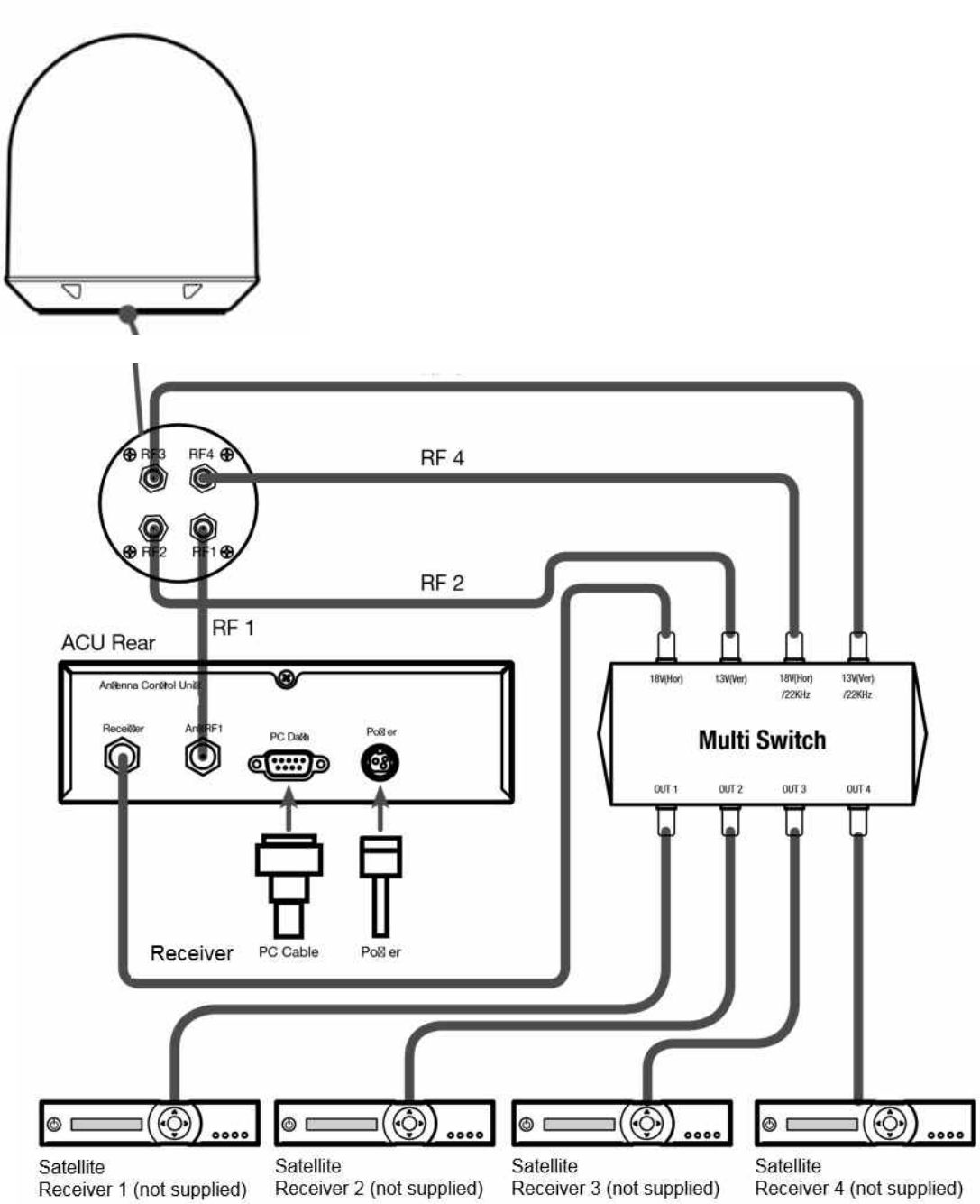
Dual Receiver Connection

You can connect two Receivers for your antenna as shown in the following diagram.
However, only one Receiver connected to ACU determines which satellite is tracked. The other Receiver needs to be configured as a single satellite receiver.
The other Receiver can watch any channel which is available from the tracked satellite.



Multiple Receiver Connection

In order to connect multiple Receivers to the antenna, you will need to purchase a suitable active multiswitch. The multiswitch has to be installed between the antenna unit and the Receivers as shown in the following diagram.



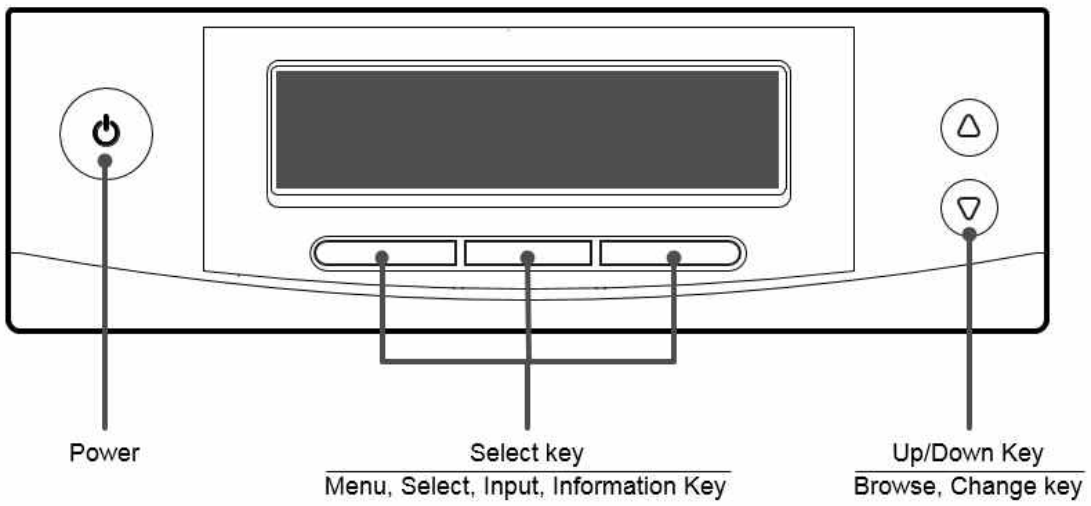
Operation Instruction. This section of the handbook describes how to setup your Satellite TV System after installing the ACU. It includes the following functions:

- System startup
- Changing the default satellite
- Monitoring the antenna status
- Setting sleep mode
- Entering setup mode
- Setting the target satellite
- Editing satellite information
- Setting the antenna parameter
- Setting GPS
- Setting the DiSEqC method
- Display versions
- Display power status
- Setting antenna go position
- Setting antenna move step
- Setting remote control
- Setting the factory default parameters
- Performing diagnostic tests

Operation Instruction

The antenna system can be setting through either ACU or PC program.

- Monitoring the status of the Antenna
- Edit satellite information
- Setting the skew control
- Setting the DiSEqC method
- Setting GPS
- Setting antenna go position
- Load satellite information for region
- Changing target satellite
- Setting the LNB local frequency
- Setting the satellite for DiSEqC signal
- Setting the antenna parameters
- Executing antenna diagnosis
- Display Power, Version status
- Setting the factory default parameters

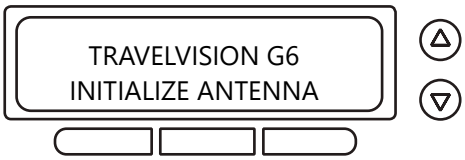

Power
Select key
Menu, Select, Input, Information Key
Up/Down Key
Browse, Change key

Basic Mode

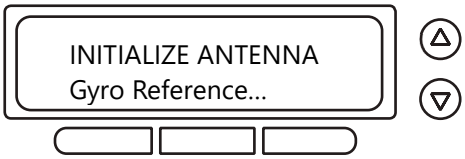
System startup

If the Antenna System installed and power applied, the ACU screen will show the following sequence:

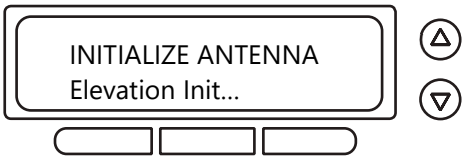
1. The ACU is initialized.
   Start data communication of between the antenna and the ACU.



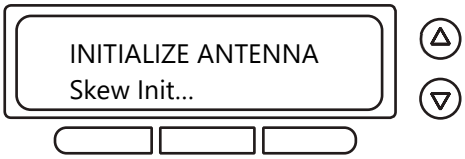
2. The antenna is initialized.



3. Gyro Sensor Reference initialize.

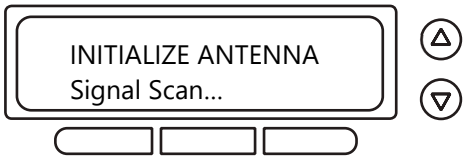


4. Elevation angle initialize.

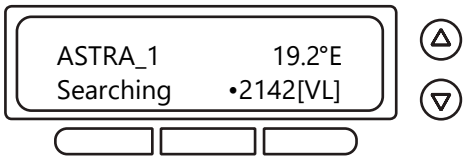


5. Skew angle initialize.

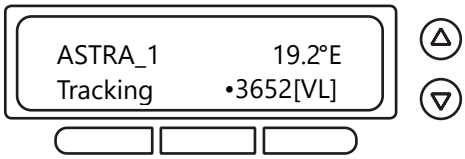
6. Tuner initialize



7. Satellite signal scan.



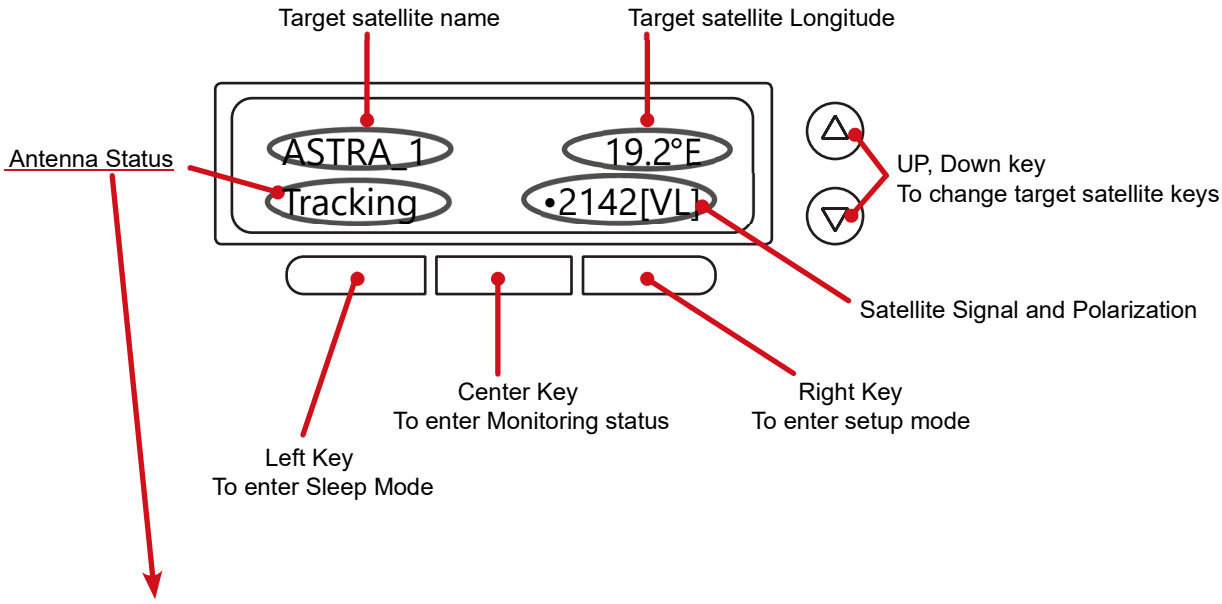
8. The antenna is searching for Target Satellite.



9. The antenna has located the satellite and is now tracking

ACU Main Display and Key function

- The ACU main screen displays the target satellite and the antenna status• Key with the function



- *Antenna Status*

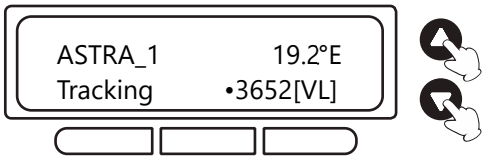
Searching	The antenna is searching for target satellite.
Tracking	The antenna has located the target satellite and is now tracking.
NID FAIL	Network ID inconsistency.
Antenna Sleep	The antenna is Sleep Mode.
Antenna Stop	The antenna is Setup Mode.

Data Communication Error

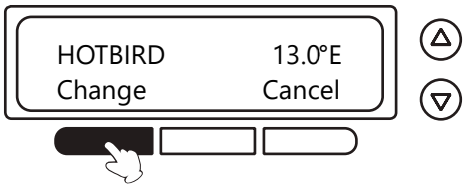
1. Check the RF cable between the antenna and the ACU

Change Target Satellite – Easy way

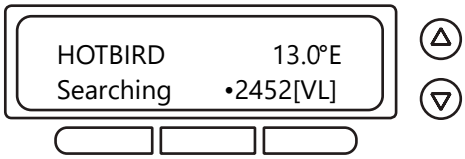
You can choose all of the satellite of the selected region to the target satellite.



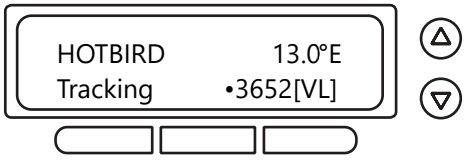
1. Press UP and DOWN buttons to change the target satellite.



2. Press Change button to select the target satellite.



3. The antenna is searching for target satellite.

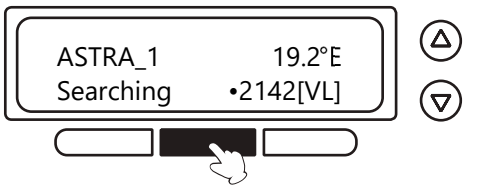


4. The antenna has located the satellite and is now tracking.

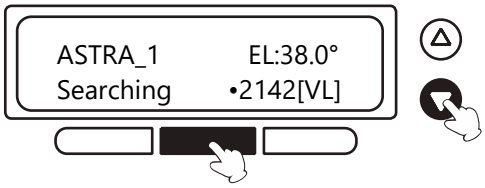
Monitoring Current Status – Searching status

The ACU displayed current status of the antenna

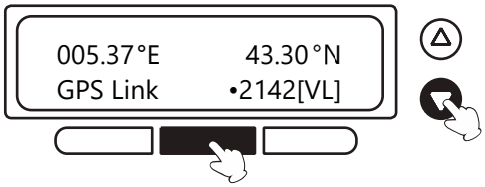
1. Press UP and DOWN buttons to change the target satellite.



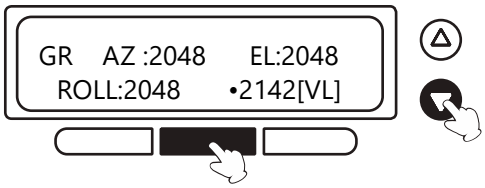
DOWN Key : return to main display.



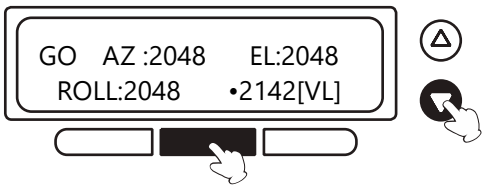
2. Target Satellite, Elevation Angle, Antenna status and AGC Level are displayed.



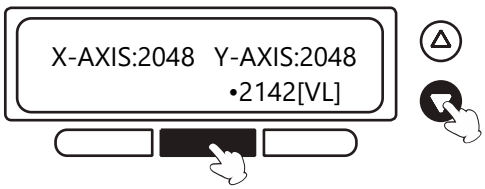
3. GPS link status and information are displayed.



4. The reference output of the gyro sensor is displayed.



5. The output of the gyro sensor is displayed.

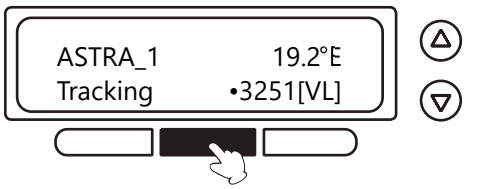


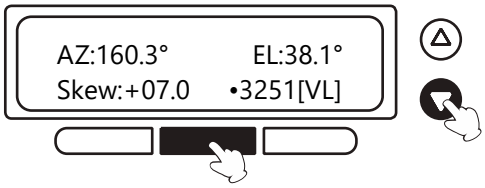
6. The output of the gradient sensor is displayed.

Monitoring Current Status – Tracking status

The ACU displayed current status of the antenna

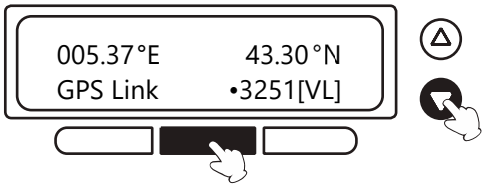
1. Press UP and DOWN buttons to change the target satellite.



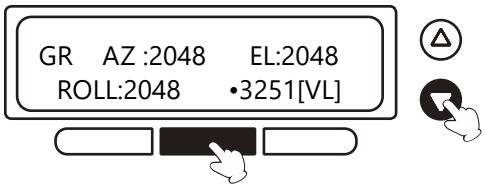


2. Azimuth position, Elevation Angle, Skew Angle, Antenna Status and AGC Level are displayed.

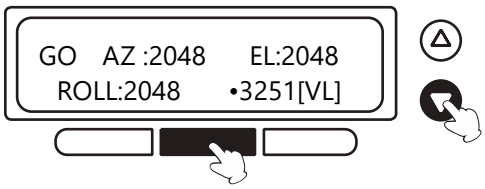
   DOWN Key: return to main display



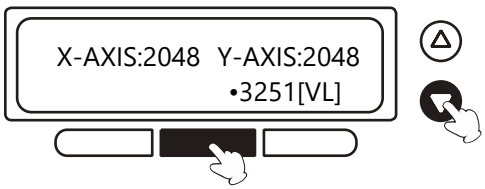
3. GPS link status and information are displayed.



4. The reference output of the gyro sensor is displayed.



5. The output of the gyro sensor is displayed.

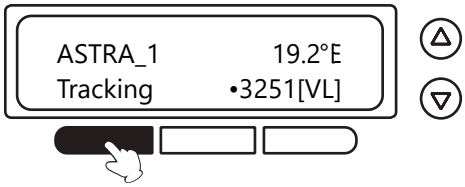


6. The output of the gradient sensor is displayed.

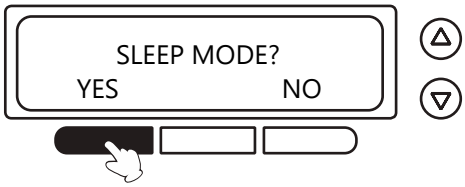
Sleep Mode

- *Why Sleep Mode?*
  - No Power to motor (except LNB & Control Board & Skew Motor)
  - Extends motor's life and saves power & quiet
- *When to use Sleep mode?*
  - Boat at dock / antenna is on tracking mode.
- *How to wake the Sleep mode?*
  - Automatically cancel or User cancel.
  - If the antenna loses the tracking satellite signal.
  - If the antenna is tilted 10 degree (User Setting – Parameter)

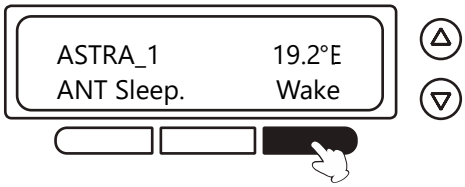
The ACU screen will show the following sequence



1. Press LEFT button.



2. Press YES button to enter the sleep mode.

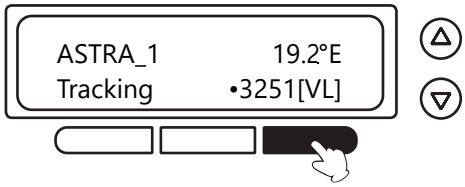


3. The antenna will be sleep mode.
   Press Wake button to start the operation of the antenna.

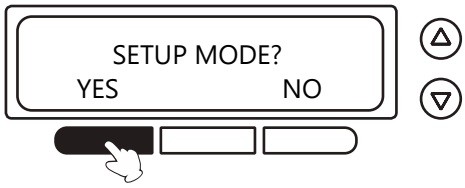
Setup Mode

Begin Setup Mode

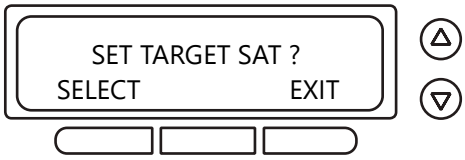
To enter the Setup Mode



1. Press SETUP button.



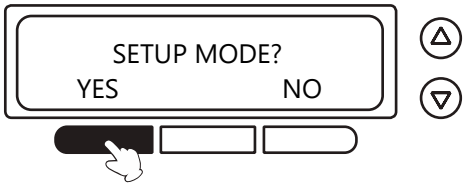
2. Press YES button to enter the Setup mode.



3. Press Select button to set the target satellite.

Set Target Satellite

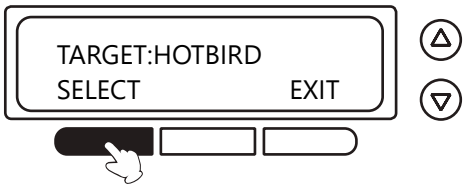
To Set target satellite in the setup mode.



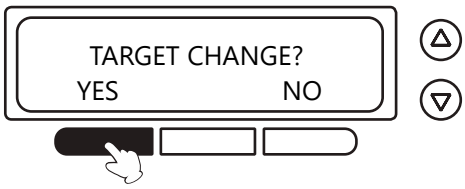
1. Press YES button to enter the Setup mode.

2. Press the Select button to set the target satellite.
   EXIT : setup mode out

3. Press the UP and DOWN buttons to change the satellite.
   EXIT : setup mode out



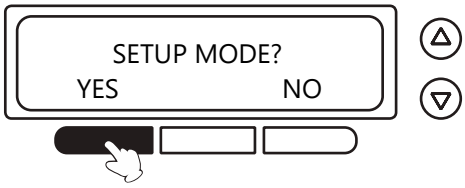
4. Press the SELECT button to select the satellite



5. Press the YES button to change the satellite. Press the NO button to cancel and return to main setup mode.

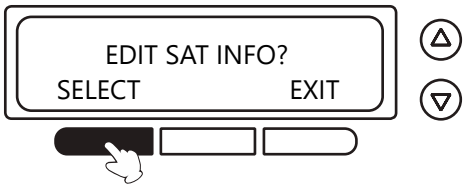
Edit Satellite Information

To modify the satellite information (transponder, verification method, LNB power supply method etc.) You can modify the existing satellite information and input new satellite information into the ACU. It is not recommended if you are novice satellite service user.

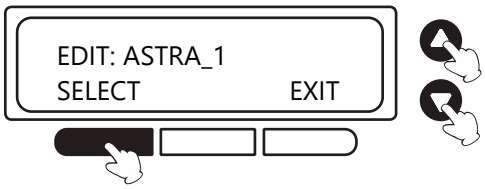


1. Press YES button to enter the Setup mode.

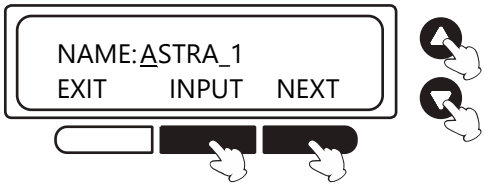
2. Press the UP button to enter edit satellite information.



3. Press the Select button to edit satellite info mode.

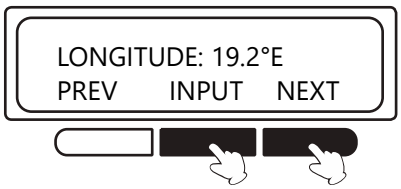


4. Press the UP and DOWN buttons to change the satellite, and press the SELECT button to select the satellite.

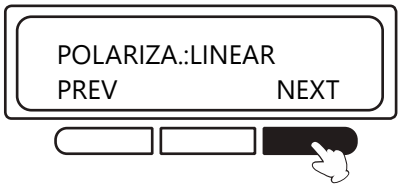


5. Input the satellite name.
   Change the underscored digit using the UP and DOWN buttons.

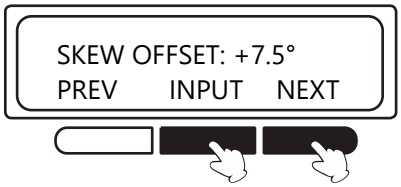
Up: increases the value.
Down: decreases the value.
INPUT: accept value and move to next digit.
NEXT: move to next screen.
EXIT: return to main setup mode.



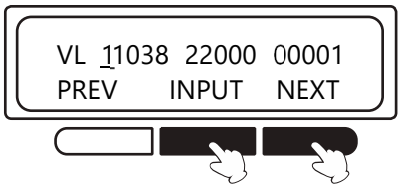
6. Input the satellite position.
   NEXT: move to next screen.
   PREV: move to previous screen.



7. Select the satellite polarization.
   UP: Linear
   DOWN: Circular

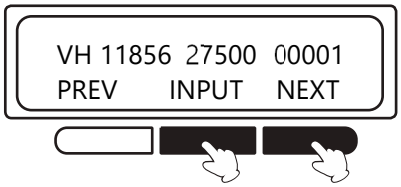


8. Input the satellite skew offset.

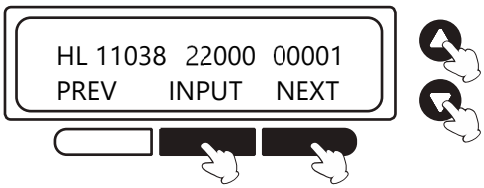


9. Input the tracking frequency, symbol rate, network ID for vertical low band. Change the underscored digit using the UP and DOWN buttons.

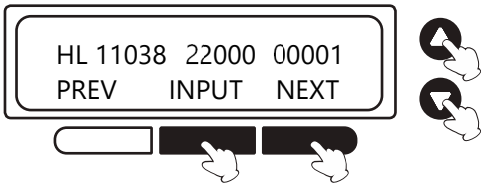
Up: increases the value. / Down: decreases the value.
INPUT: accept value and move to next digit.
NEXT: move to next screen.
PREV: move to previous screen.



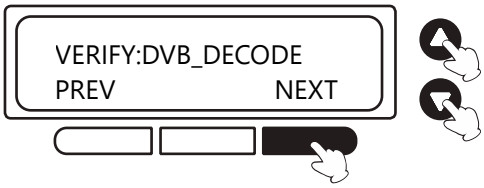
10. Input the tracking frequency, symbol rate, network ID for vertical high band..



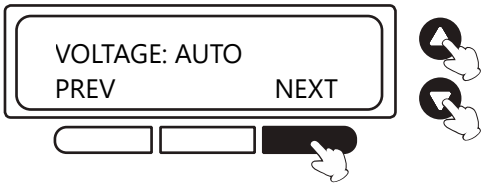
11. Input the tracking frequency, symbol rate, network ID for horizontal low band.



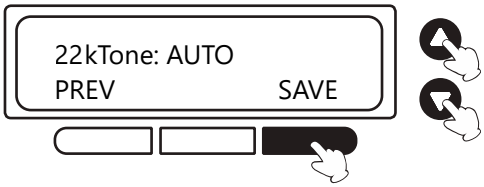
12. Input the tracking frequency, symbol rate, network ID for horizontal high band.



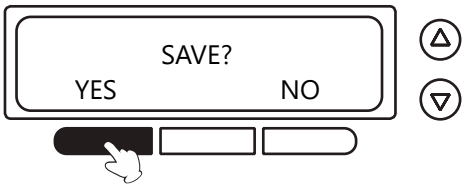
13. Select the Verification method* of target satellite.
NEXT: move to next screen.
PREV: move to previous screen



14. Select the **Voltage Supply method*** to LNB.
NEXT: move to next screen.
PREV: move to previous screen



15. Select the **22kTone Supply method*** to LNB.
PREV: move to previous screen.
SAVE: move to save screen



16. Press YES to save the input information. Press the NO button to cancel and return to main setup mode.

Verification, Voltage, 22kTone Method

Verification method*

	Frequency	Symbol Rate	Network ID	
AGC LEVEL	○	X	X	Use only signal level for tracking
DVB LOCK	○	○	X	Use only DVB Lock signal for tracking
DVB DECODE	○	○	○	Verify satellite using DVB decoding method for tracking
DSS DECODE	○	○	X	Decode only DSS Lock signal for tracking

Voltage Supply method*

- AUTO : Supply 13V or 18V to LNB
  (According to the receiver output state)
- Only 13V : always supply 13V to LNB
- Only 18V : always supply 18V to LNB

22kTone Supply method*

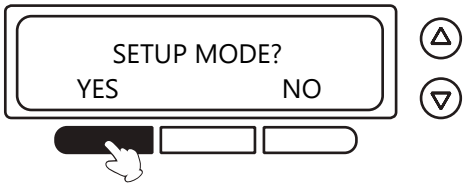
- AUTO : Supply 0kHz tone or 22kHz tone to LNB
  (According to the receiver output state)
- Only 0kHz : always supply 0kHz tone to LNB
- Only 22kHz : always supply 22kHz tone to LNB

KU Band (10.7 ~ 12.75GHz)	Vertical (RHCP)	Horizontal (LHCP)
LOW Band (10.7 ~ 11.7GHz) (22k Tone : OFF)	13V	18V

High Band (11.7 ~ 12.75GHz) (22k Tone : ON)	13V + 22kHz	18V + 22kHz

Set LNB Local Frequency – Universal

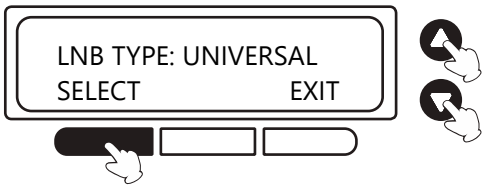
To Select a local frequency (Universal LNB is used)
You can set LNB type and input a local frequency into the ACU. It is not recommended if you are novice satellite service user.



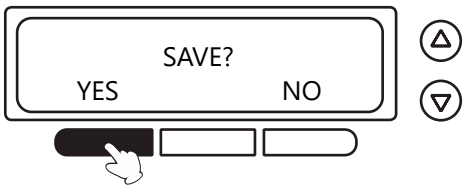
1. Press YES button to enter the Setup mode.

2. Press the UP button twice to enter set local frequency.

3. Press the Select button to set local frequency.



4. Select the **LNB type***.
   UP: Universal LNB
   DOWN: Single band LNB
   EXIT: return to main setup mode.



5. Press YES to save the input information.
   Press the NO button to cancel and return to main setup mode.

LNB Type*

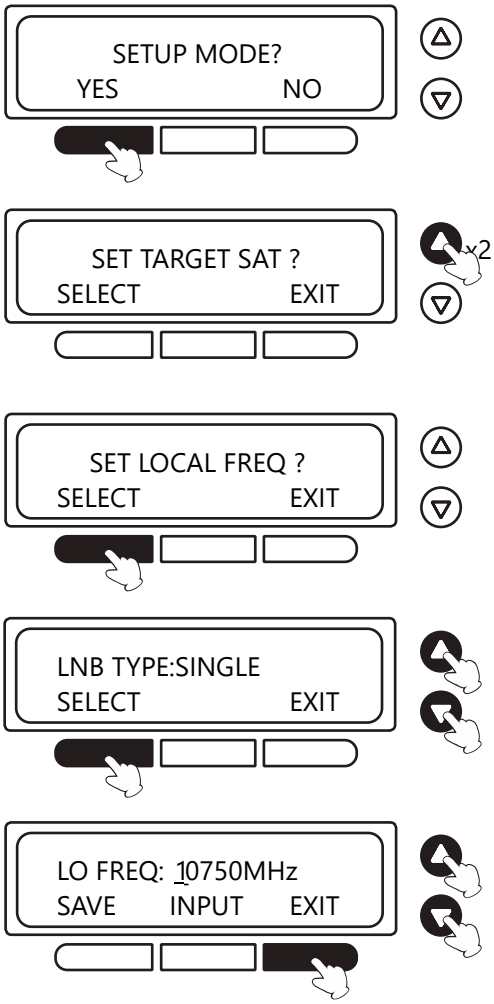
- UNIVERSAL : Universal LNB

Low band local frequency: 9750MHz / High band local frequency: 10600MHz

- SINGLE : Single Band LNB
  10500MHz, 10678MHz, 10700MHz, 10750MHz, 11250MHz, 11300MHz

Set LNB Local Frequency – Single band

To Select a local frequency (Single band LNB is used)



1. Press YES button to enter the Setup mode.

2. Press the UP button twice to enter set local frequency.

3. Press the Select button to set local frequency.

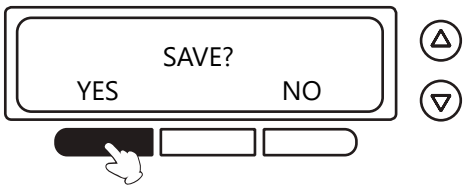
4. Select the **LNB type*.**

   UP : Universal LNB
   DOWN : Single band LNB
   EXIT : return to main setup mode.

5. Input the single band local frequency. Change the underscored digit using the UP and DOWN buttons.
   Up: increases the value.
   Down: decreases the value.

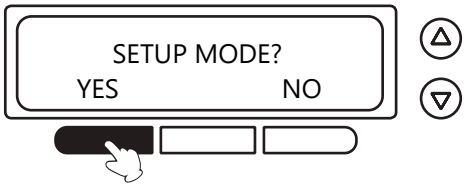
   INPUT: accept value and move to next digit.
   SAVE: move to save screen.
   EXIT: return to main setup mode.

6. Press YES to save the input information. Press the NO button to cancel and return to main setup mode.


SAVE?
YES
NO

Set Use DiSEqC

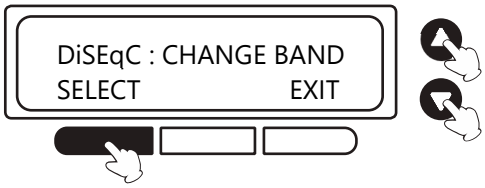
To set DiSEqC for change band satellite



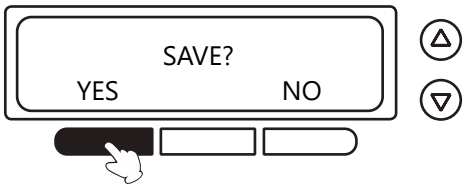
1. Press YES button to enter the Setup mode.

2. Press the UP button three times to enter set use DiSEqC.

3. Press the Select button to set use DiSEqC.



4. Select DiSEqC **Method***.



5. Press the YES button to change the satellite.
   Press the NO button to cancel and return to main setup mode.

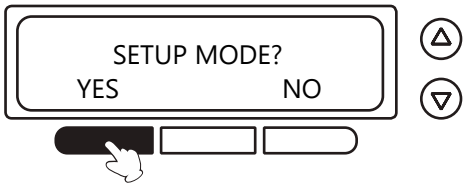
DiSEqC Method

How to use the DiSEqC signal of receiver

DiSEqC Method	Explanation	LNB Type / DiSEqC Use
NOT USE	Do not use DiSEqC	•Single Band LNB •Not use DiSEqC signal
CHANGE BAND	Use for changing LOW and HIGH Band	•Universal LNB •Only detected 22k Tone •Not use DiSEqC signal
CHANGE SAT	Not possible	•Not possible

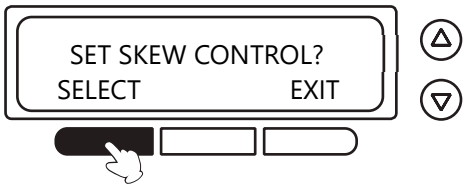
Set Skew Control

To set the skew control method

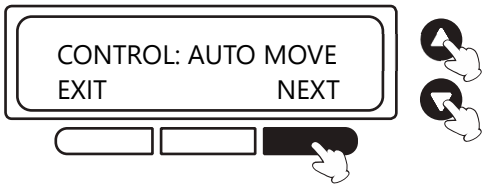


1. Press YES button to enter the Setup mode.

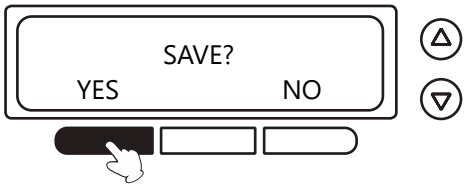
2. Press the UP button five times to enter set skew control.



3. Press the Select button to set use Skew control.



4. Select **Skew Control Method***.
   UP: Auto Move.
   DOWN: Move Fixed.



5. Press the YES button to change the satellite.
   Press the NO button to cancel and return to main setup mode.

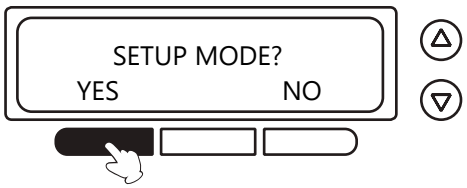
Skew Control Method

Skew Control Method	Explanation
Auto Move	The skew angle is varied by moving of the antenna. If the antenna is tilted, the skew angle move to maintain the skew angle of the calculated angle.
Skew Fixed	Just only move calculated skew angle for the selected satellites. The skew angle is not varied by moving of the antenna. If the antenna is tilted, the skew angle is not move to maintain the skew angle of the calculated angle.

.

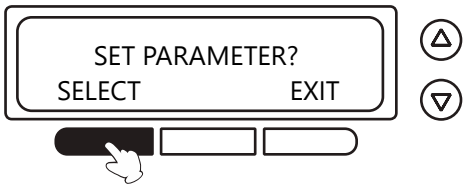
Set Parameter – Antenna Operation Parameters

To modify the antenna operation parameters
It is not recommended if you are novice satellite service user.



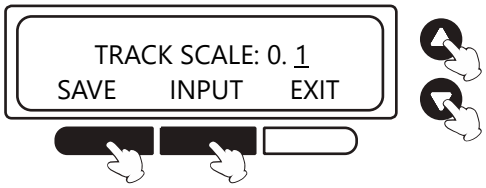
1. Press YES button to enter the Setup mode.

2. Press the UP button six times to enter set parameters.

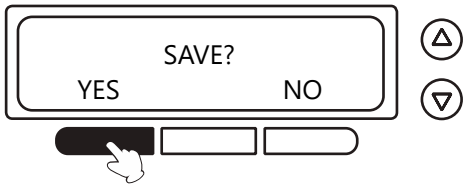


3. Press the Select button to set parameters.

4. Select the **PARAMETER*.**



5. Input the track scale.
   Change the underscored digit using the UP and DOWN buttons.
   Up: increases the value.
   Down: decreases the value.
   INPUT: accept value and move to next digit.
   SAVE: move to save screen.
   EXIT: return to main setup mode.



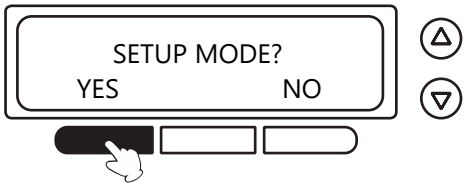
6. Press the YES button to change the satellite.
   Press the NO button to cancel and return to main setup mode.

Antenna Operation Parameters

Parameters	Explanation
TRACKING SCALE	To control the tracking speed while antenna is tracking satellite. 0.22
DETECT LEVEL	To set the satellite signal detection level. 0600
TRACKING LEVEL	To set the satellite signal tracking level. 0800
EL ADJUST	To offset the angle difference between the mechanical Elevation angle and actual elevation angle -0.00
SKEW ADJUST	To offset the angle difference between the mechanical Skew angle and actual elevation angle.-0.00
RE-SEARCHING TIME	To set time to search satellite signal when lost to the satellite signal. 010 sec
WAKE SLEEP MODE	To set the angular velocity of the gyro sensor to switch to the tracking mode from the sleep mode. 010 min
GYRO INIT	To initialize reference of gyro sensor.
Tracking Method	C/N

Set GPS

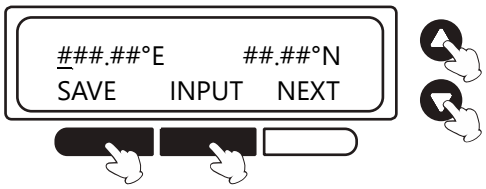
To set GPS information which enhance the antenna performance
If the GPS information is the updated, GPS information of the ACU is also updated



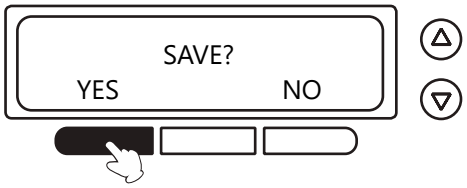
1. Press YES button to enter the Setup mode.

2. Press the UP button seven times to enter set GPS.

3. Press the Select button to set GPS.



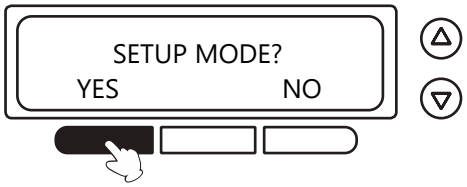
4. Input the GPS information.
   Change the underscored digit using the UP and DOWN buttons.
   Up: increases the value.
   Down: decreases the value.
   INPUT: accept value and move to next digit.
   SAVE: move to save screen.
   EXIT: return to main setup mode.



5. Press the YES button to change the satellite.
   Press the NO button to cancel and return to main setup mode.

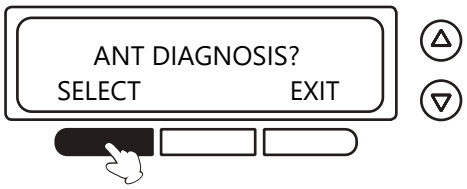
Execute Antenna Diagnosis

The antenna status can be checked by the results of the diagnostic self-test of the antenna. Refer to the following codes to understand the test results.



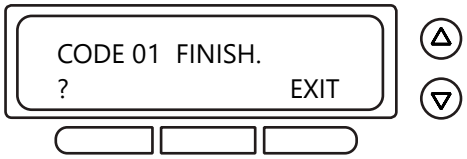
1. Press YES button to enter the Setup mode.

2. Press the UP button eight times to enter antenna diagnosis.

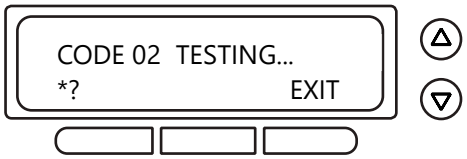


3. Press the Select button to diagnose antenna.

4. CODE 01 is being tested.
   EXIT : return to main setup mode

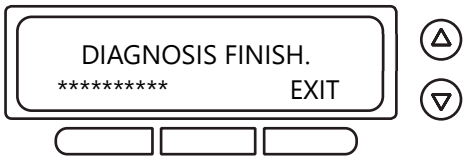


5. CODE 01 has finished.



6. CODE 02 is being tested.

7. CODE 10 has finished.



8. Diagnostic results are displayed.
   EXIT : return to main setup mode

* Test is passed.

\- Test is skipped.

? Test is under process.

Number — Error code (**3*5*****)

Number 3, 5 means error CODE 03 and05

Example

CODE 03, CODE 05 test is failed..
CODE 07 test is skipped.

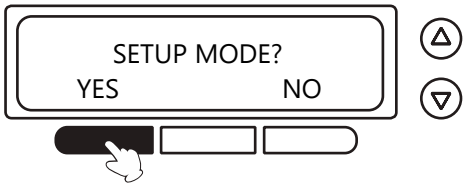
Antenna Operation Parameters

Explanation of diagnostic code

CODE	Explanation
CODE 01	Data communication between antenna and ACU is tested. If failed, check the RF cable be-tween antenna and ACU.
CODE 02	Output of Gyro sensor is tested. If failed, check the gyro sensor, sensor cable and control board
CODE 03	LNB is tested. If failed, check the LNB and LNB part (Tuner, Amp circuit) of control board.
CODE 04	Azimuth CW limit is tested. If failed, check the limit switch and cable, motor and belt for Azimuth axis, and check the Azimuth motor part of control board.
CODE 05	Azimuth CCW limit is tested. If failed, check the limit switch and cable, motor and belt for Azimuth axis, and check the Azimuth motor part of control board.
CODE 06	Elevation UP limit is tested. If failed, check the limit switch and cable, motor and belt for Elevation axis, and check the Elevation motor part of control board.
CODE 07	Skew limit is tested. If failed, check the limit switch and cable, motor and belt for Skew axis, and check the Skew motor part of control board.
CODE 08	Antenna Input Power is tested. If failed, check the RF cable, and check the Power Input part of control board.
CODE 09	ACU Input Power is tested. If failed, check the ACU power cable and AC Input Power or DC Input Power, and check the Power Input of control board.
CODE 10	Receiver connect is tested. If failed, check the Receiver Connect and Receiver Power, and check the receiver Input part of control board.

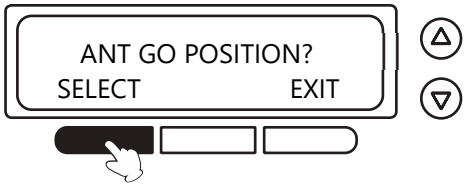
Set Antenna Go Position

To set antenna go target position

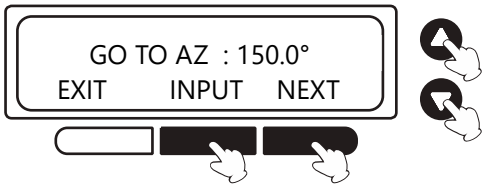


1. Press YES button to enter the Setup mode.

2. Press the UP button nine times to enter antenna go position.

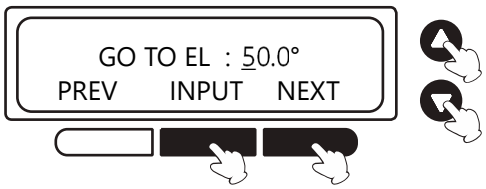


3. Press the Select button to antenna go position.

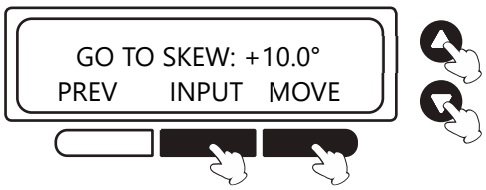


4. Input position value for azimuth axis. Change the underscored digit using the UP and DOWN buttons.

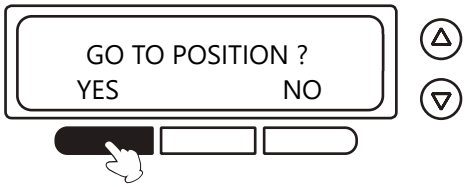
   Up: increases the value.
   Down: decreases the value.
   INPUT: accept value and move to next digit.
   NEXT: move to next screen.
   EXIT: return to main setup mode.



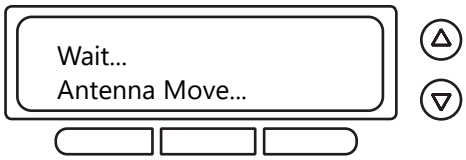
5. Input position value for elevation axis.
   NEXT : move to next screen.
   PREV : move to precious screen.



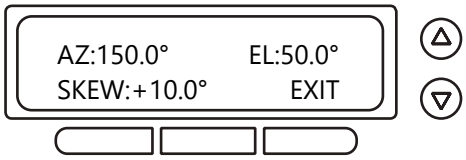
6. Input position value for skew axis.
   MOVE : move to the antenna position.
   EXIT : return to main setup mode.



7. Press the YES button to antenna go position.
   Press the NO button to cancel and return to main setup mode.



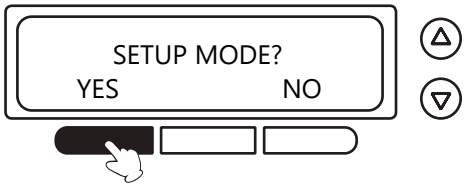
8. Please waiting while the antenna moving.



9. The antenna move finished.

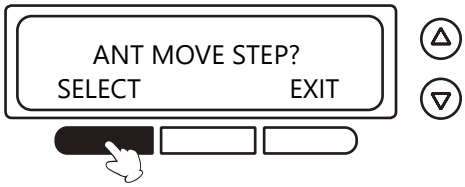
Set Antenna Move Step

To move the antenna in 1° steps



1. Press YES button to enter the Setup mode.

2. Press the UP button ten times to enter antenna move step.



3. Press the Select button to antenna go position.

4. Input position value for azimuth axis.

   UP: 1° step move to by CCW direction.
   DOWN: 1° step move to by CW direction.
   EL: Select the Elevation axis.
   SKEW: Select the Skew axis.
   EXIT: return to main setup mode.

5. Input position value for elevation axis.

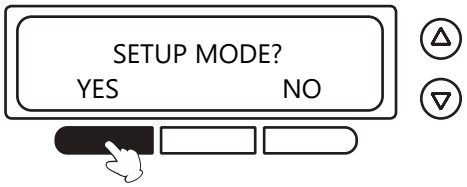
UP: 1° step move to by CCW direction.
DOWN: 1° step move to by CW direction.
AZ: Select the Azimuth axis.
SKEW: Select the Skew axis.
EXIT: return to main setup mode.

6. Input position value for skew axis.

UP: 1° step move to by CCW direction.
DOWN: 1° step move to by CW direction.
AZ: Select the Azimuth axis.
EL: Select the Elevation axis.
EXIT: return to main setup mode.

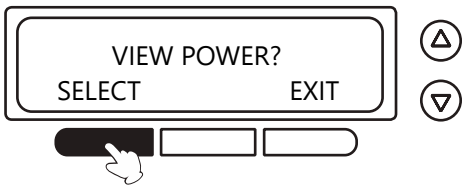
Display Power

To display antenna and ACU Power levels and Receiver Output

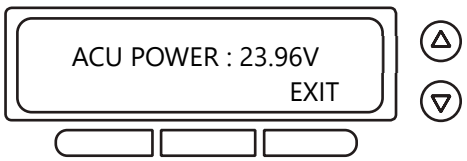


1. Press YES button to enter the Setup mode.

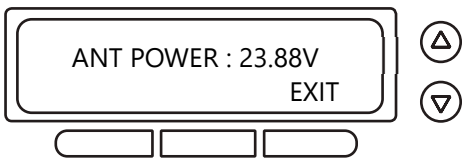
2. Press the UP button eleven times to enter view power.



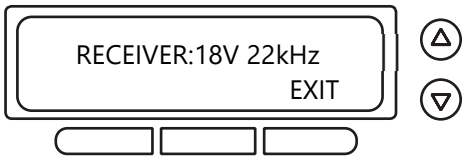
3. Press the Select button to view power.



4. ACU power is displayed.
   EXIT: return to main setup mode.



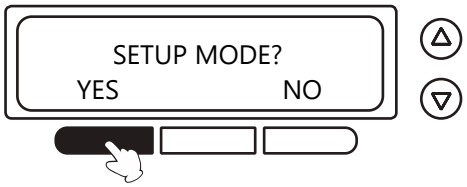
5. Antenna power is displayed.
   EXIT: return to main setup mode.



6. Receiver Output power is displayed.
   EXIT: return to main setup mode.

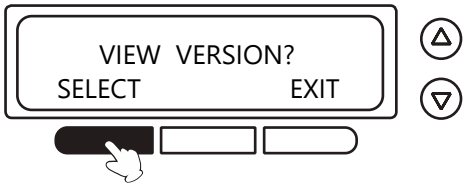
Display Versions

To display antenna and ACU Software version and Library version

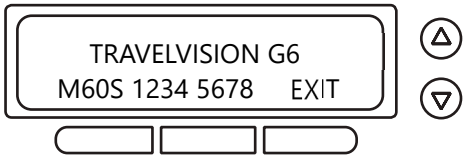


1. Press YES button to enter the Setup mode.

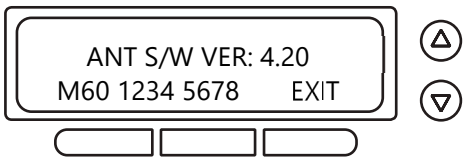
2. Press the UP button twelve times to enter view version.



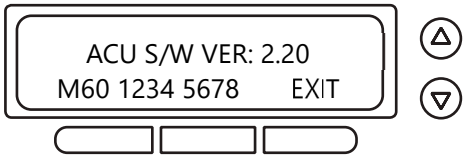
3. Press the Select button to view version.



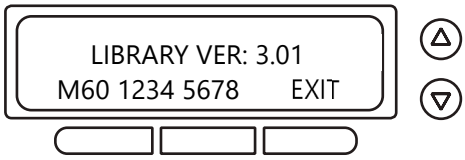
4. Antenna model and serial number is displayed.
   EXIT: return to main setup mode.



5. Antenna software version is displayed.
EXIT : return to main setup mode.



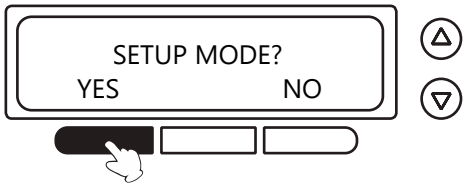
6. ACU software version is displayed.
EXIT : return to main setup mode.



7. Library version is displayed.
EXIT : return to main setup mode.

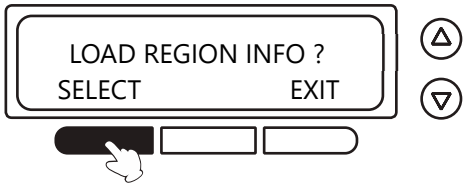
Load Regional Satellite Information

Select your region from the satellite information library



1. Press YES button to enter the Setup mode.

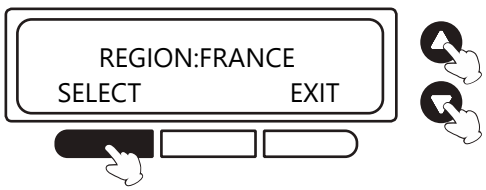
2. Press the UP button thirteen times to enter load region satellite information.



3. Press the Select button to view power.

4. Press the UP and DOWN buttons to change the continent, and press the SELECT button to select the continent.

   EXIT: return to main setup mode.



5. Press the UP and DOWN buttons to change the region, and press the SELECT button to select the region.

   EXIT: return to main setup mode.

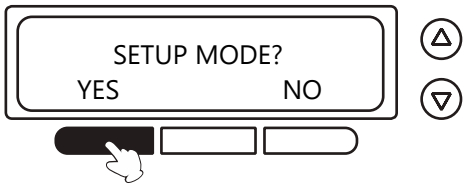
6. Antenna system is initialized.

Continent	Region	Main Satellite
EUROPE	BULGALIA	13.0E Hotbird_W
	DENMARK	0.8W THOR_5
	FRANCE	19.2E ASTRA_1
	GERMANY	19.2E ASTRA_1
	GREECE	13.0E Hotbird_W
	ICELAND	0.8W THOR_5
	IRELAND	28.2E ASTRA_2
	ITALIA	13.0E Hotbird_W
	NETHERLANDS	19.2E ASTRA_1
	NORWAY	0.8W THOR_5
	PORTUGAL	30.0W HISPASAT
	RUSSIA	36.0E EUTEL_36A
	RUSSIA_B	56.0E EXPRESS_AT
	SCOTLAND	28.2E ASTRA_2
	SPAIN	30.0W HISPASAT
	SWEDEN	0.8W THOR_5
	TURKEY	42.0E TURKSAT
	UK	28.2E ASTRA_2
	UKRAINE	13.0E Hotbird_W
ASIA	CHINA_1	134.0E APSTAR_6
	CHINA_2	92.2E CHINA_9
	CHINA_3	122.0E ASIASAT_4
	HONG_KONG	134.0E APSTAR_6
	INDIA	83.0E INSAT_4A
	INDONESIA	91.5E MEASAT_3
	IRAN	68.5E INTELSAT20
	JAPAN_BS	110.0E BSAT_110
	JAPAN_JSAT	124.0E JCSAT_4B
	KOREA	116.0E KOREASAT3B
	MALAYSIA	91.5E MEASAT_3
	PHILPPINES	113.0E KOREASAT_5
	RUSSIA_E	90.0E YAMAL201
	SINGAPORE	91.5E MEASAT_3
	TAIWAN	138.0E TELST_18
	THAILAND	78.5E THAICOM_5
	UAE	26.0E BADR

Continent	Region	Main Satellite
OCEANIA	AUSTRALIA	156.0E OPTUS_C1
	NEW_ZEALAND	160.0E OPTUS_D1
S.AMERICA	ARGENTINA	101.0W DIRECTV_8
	BRAZIL	43.1W INTELSAT11
	BRAZIL2	70.0W STARONE_C2
	COLOMBIA	95.0W GALAXY_3C
	MAXICO	58.0W INTELSAT21
	PANAMA	95.0W GALAXY_3C
	VENEZUELA	95.0W GALAXY_3C
AFRICA	EGYPT	7.0W NILESAT
	S_AFRICA	68.5E INTELSAT20
N.AMERICA	CHICAGO	101.0W DIRECTV_8
	DETROIT	101.0W DIRECTV_8
	HOUSTON	101.0W DIRECTV_8
	LOS_ANGELES	101.0W DIRECTV_8
	MIAMI	101.0W DIRECTV_8
	NEW_ORLEANS	101.0W DIRECTV_8
	NEW_YORK	101.0W DIRECTV_8
	PUERTO_RICO	95.0W GALAXY_3C
	SALT_LAKE	101.0W DIRECTV_8
	SAN_DIEGO	101.0W DIRECTV_8
	SANFRANCISCO	101.0W DIRECTV_8
	SEATTLE	101.0W DIRECTV_8
	TAMPA	101.0W DIRECTV_8
	TORONTO	82.0W NIMIQ_4
	VENCOUVER	129.0W CIEL_2

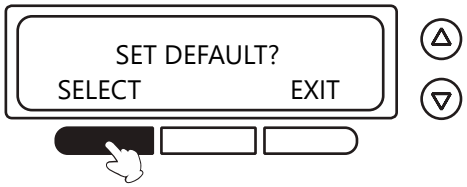
Set Factory Default

Set the factory default parameters

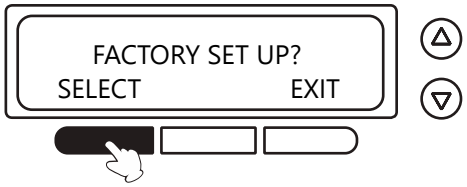


1. Press YES button to enter the Setup mode.

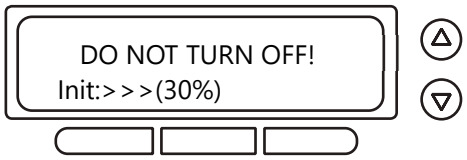
2. Press the UP button fourteen times to enter set default.



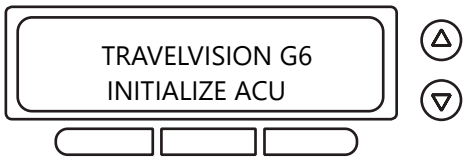
3. Press the Select button to set default.



4. Press the YES button to factory default setting.
   Press the NO button to cancel and return to main setup mode.



5. Please waiting, being set to the factory default setting.
   Don't turn off.



6. Antenna system is initialized.

Technical Specification

Antenna	:	Parabolic 60 cm.
Dimension dôme	:	B 70 cm H 74 cm
Weight	:	16 kg.
Power	:	9.5V ~ 36V DC
Power consumption	:	Typ, 30W, Max 50 W.
Minimum EIRP	:	47 dBW.
Frequency	:	KU (10.7 GHz ~ 12.75 GHz)
AZ Control Range	:	680°
EL control range	:	0°~90°
Roll	:	50°/Sec
Pitch	:	50°/Sec
Auto skew	:	-90°~ +90°
GPS	:	NMEA 0183
Operating temperature	:	-15°C ~ +60°C

ACU dimensions	:	230 x 226 x 55 mm (l x b x h), 1,1 Kg

Warranty

1. Warranty is only applicable when the Travel Vision system is set up properly and when it is used in accordance with the procedures as described in this user manual.
2. Through strict quality control and high requirements set in regard to the utilized materials, Travel Vision BV guarantees delivery of a sound and functional Travel Vision system.
3. Within **24 months** after purchase and within 36 months after production, defects due to an error in manufacturing and/or wrong materials which occurred during normal use will be resolved under the hereafter defined warranty conditions.
4. Warranty applies only on presentation of (a copy of) the purchase receipt and after providing the serial number, by the owner of the Travel Vision system.
5. Warranty is not transferable.
6. The holder of the Travel Vision system should at first observation of a defect immediately inform the dealer and should enable the dealer to detect the defect.
7. Where in the judgments of the dealer a defect can be rectified on site, then the dealer is authorized to carry out the rectification on site. In the event that this is impossible the dealer will, without creating any obligation to temporarily install a replacement system, dismantle the Travel Vision system and take it to his premises for repair, or following consultation with the help desk, send the system to Travelvision b.v. so that they can carry out the repair.
8. Travelvision b.v. reserves the right to refer to third parties or to make use of their services in dealing with the warranty or offering advice.
9. The warranty may only be called upon where all the warranty conditions have been met. Liability on the part of Travelvision b.v. is therefore limited to the reimbursement of the costs of repair or the bearing of such costs by Travelvision b.v., or replacement of the Travel Vision in whole or in part, or of the component in which the defect has occurred, all entirely according to the opinion and judgment of Travelvision b.v..
10. Travelvision b.v. reserve the right to judge, entirely in accordance with their own opinion, that a defect is attributable to improper use and/or improper installation of the Travel Vision system, in which event all claims against the warranty shall lapse and will therefore be rejected.
11. Travelvision b.v. shall not be responsible for the suitability of the Travel Vision system for any purpose other than that for which Travelvision b.v. has given undertakings in the Installation and User Manual. Travelvision b.v. will therefore accept no liability whatsoever for any damage resulting from such use.
12. Travelvision b.v. shall not be liable for any defect in the Travel Vision system and/or its functionality where this is the consequence of damaging external factors, or of the improper or incomplete functioning of third party products and/or services, or the unavailability thereof. Travelvision b.v. will therefore accept no liability whatsoever for any damage resulting from such use.

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