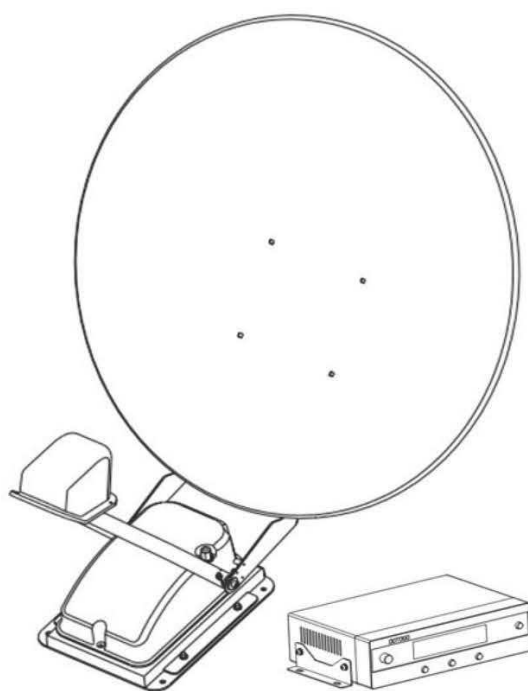




Caravan and Motor Home Antenna RV-85A



Operation Guide



A-85 Operation Guide

This guide explains how to operate the IDU. The IDU is the system's user interface, providing access to the system and its functions through an LCD display

Installation Steps

1. Introduction.....	4
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10. Monitor and Diagnostic.....	27

Technical Support

If you need technical assistance, please contact Dotogo technical support

✉ Support@outbacktv.com.au



Important Safety Information

Before you operate the IDU, please read each of the procedures in the operation guide carefully.



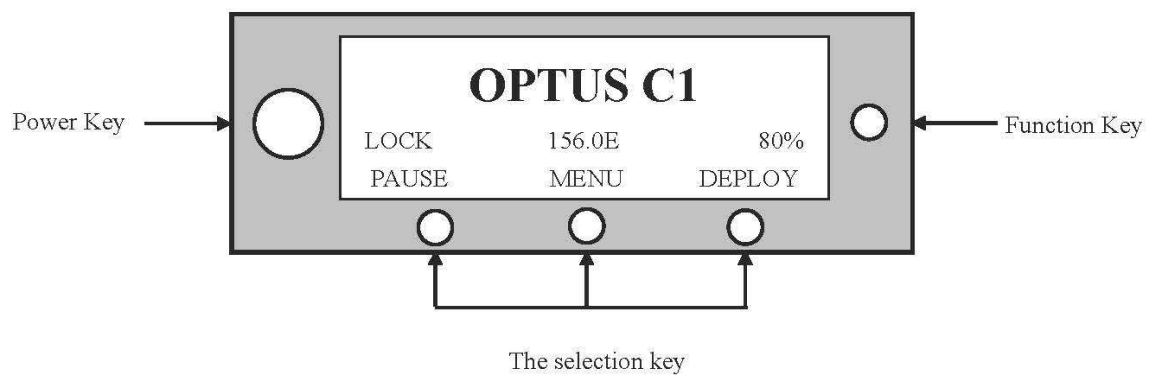
This icon indicates that you must pay your attention to it

1 Introduction

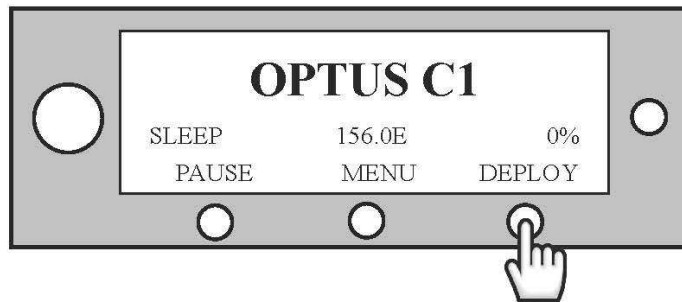
The antenna system is easy to use. Before you powering on IDU, Please double check follow step:

1. Dish has clearance above and around it
 2. The antenna has a clear view of the sky
 3. All the cables are connected correctly
 4. Turn on your satellite TV **STB**(set top box) and TV
 5. Ignition stow is installed correctly
-

Normal Mode

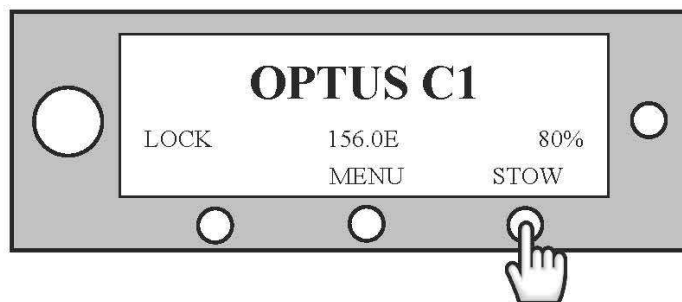


② System ON/OFF



System ON

Once Power on the IDU, The antenna system will retract to shut down position and enter into **Sleep Mode**. The power consumption is very low. Press **DEPLOY** will deploy the antenna systems.



System OFF

If you use ignition stow function when you install at vehicle. The antenna system will automatically shut down dish on vehicle startup.

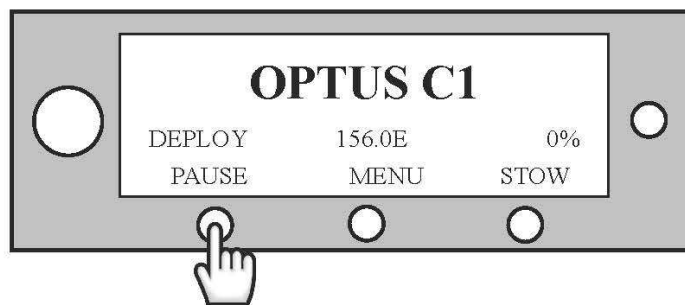
OR You can press **STOW**. Antenna system will retract to shut down position



Before you driving, please confirm the dish is completely retract to shut down position.

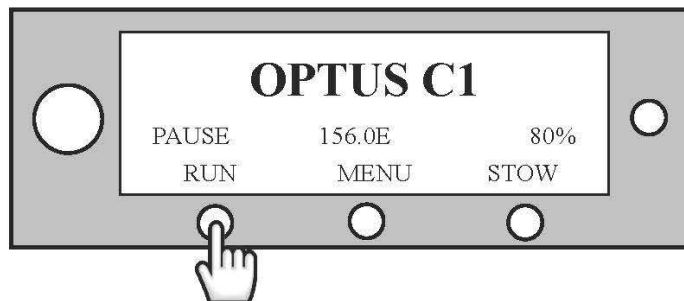
③ System PAUSE/RUN

This function will be useful for installing the dish to the roof top antenna assembly. You can press **PAUSE** to pause the dish bracket when it is raising and before the unit has started to rotate. You can pause/run the antenna at any time.



System PAUSE

Press **PAUSE** can pause the antenna when it is running.



System RUN

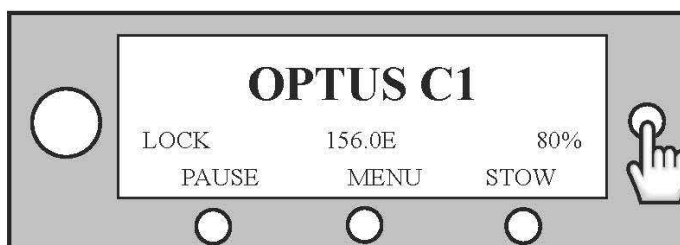
Press **RUN** will restore the previous action.

4 One-button To Change Target Satellite

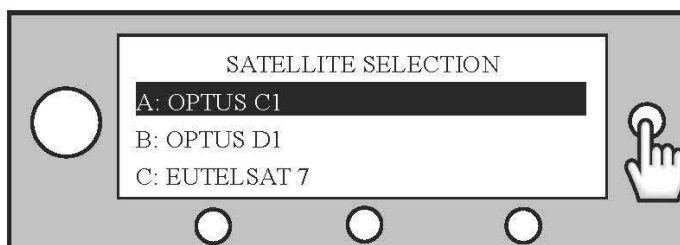
You can manually change target satellite which you want to lock on among the preset satellite group by **Function** key.



You must select a preset satellite group you want to lock on in “SET SAT PAIRS”.
See next page.



In the normal mode, press **FUNCTION** key will enter satellite selection mode.

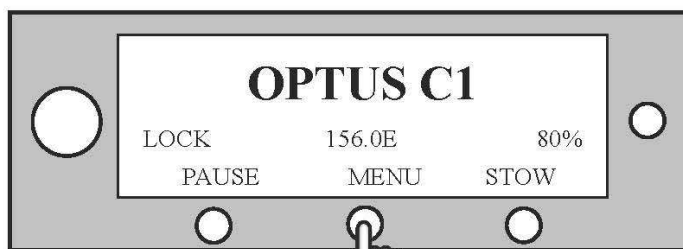


You can select the target satellite what you want in the list.

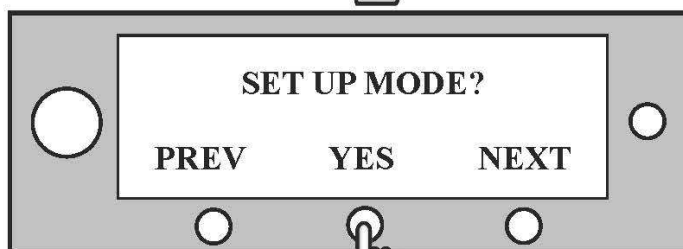
Wait for 3 second, the target satellite will be selected automatically and tracked by the antenna.
And it will return to **Normal Mode** automatically at the same time.

5 Set Triple Satellite Pairs

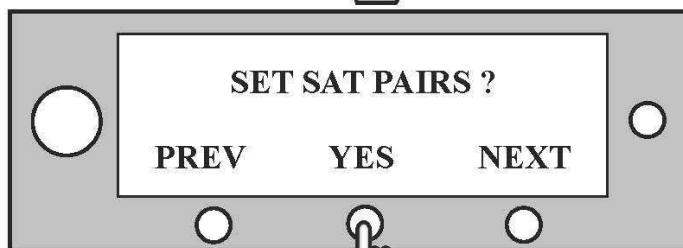
Select a preset satellite group you want to lock on in the global satellite library. So that you can easily switch back or forth among them



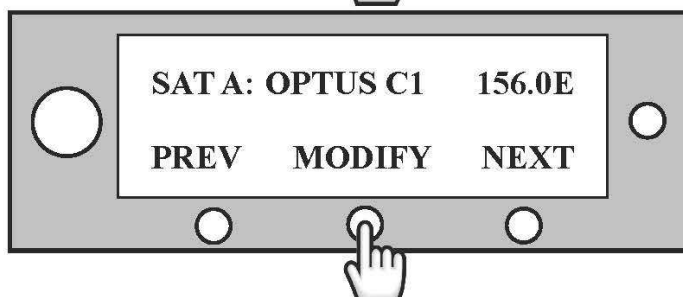
1. Press **MENU** will enter menu selection.



2. Press **YES** will enter **SET UP MODE**

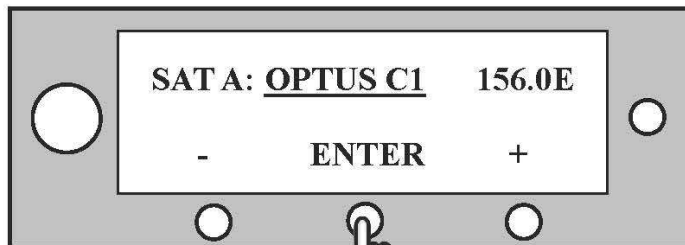


3. Press **YES** will enter **SET SAT PAIRS** mode

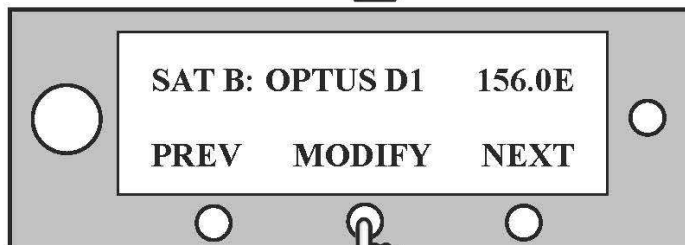


4. Press **MODIFY** will enter **SAT A** modify mode. Go to step5
OR press **NEXT** will enter **SAT B** . Go to step6

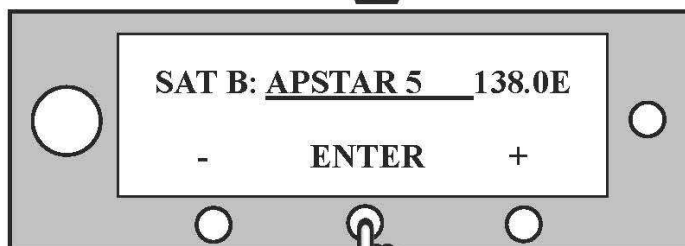
5 Set Triple Satellite Pairs



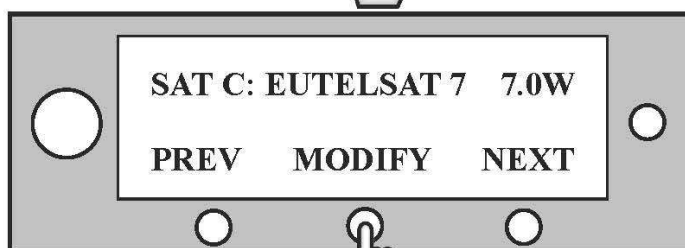
5. Press +/- to select the satellite.
OR press **ENTER** will input the accept data. Go to step4



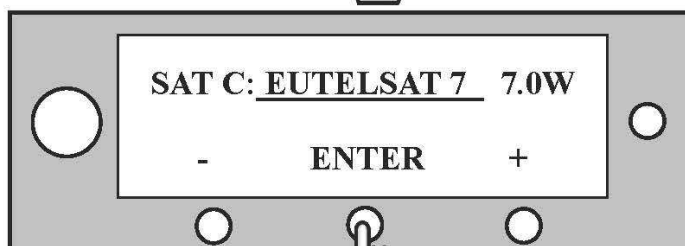
6. Press **MODIFY** will enter **SAT B** modify mode.
OR press **NEXT** will enter **SAT C** modify mode. Go to step8



7. Press +/- to select the satellite.
OR press **ENTER** will input the accept data. Go to step6

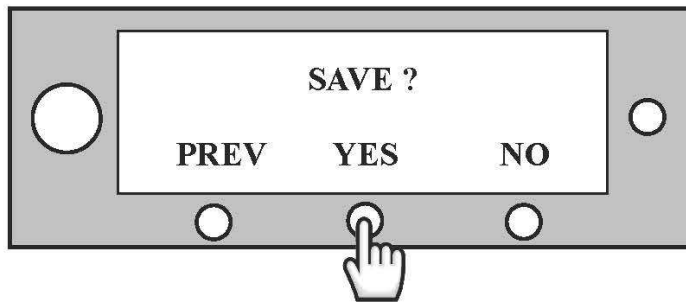


8. Press **MODIFY** to enter **SAT C** modify mode.
OR press **NEXT** to go to step10
 If there is nothing have been modified, it will go to step3



9. Press **ENTER** will input the accept data. Then go to step8
OR press +/- to change the satellite.

⑤ Set Triple Satellite Pairs

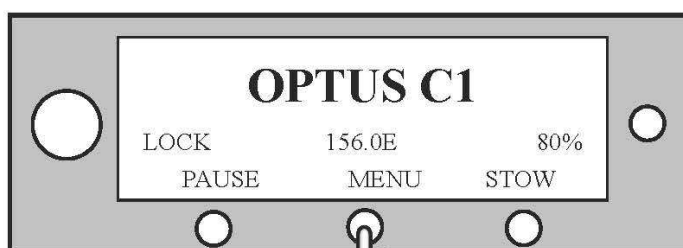


10. Press **PREV** will return to step 8
OR press **YES** will save the setting
OR press **NO** will cancel the setting

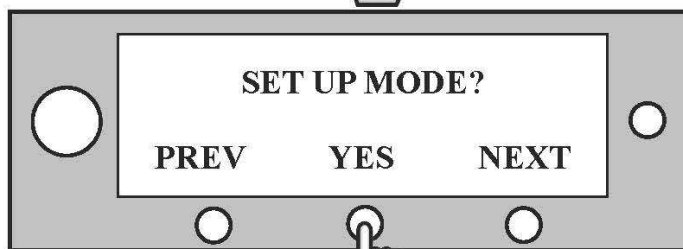
5 Set LNB Information



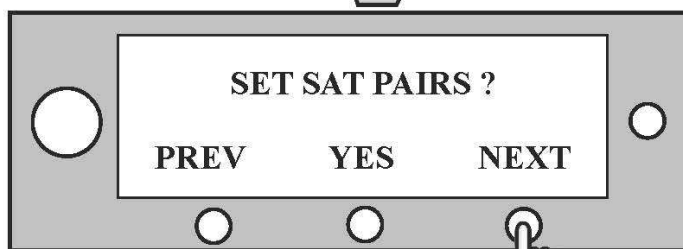
Set up the LNB information is very important. The information of LNB must match with the LNB inside of the ODU. If not, the antenna may not lock onto the target satellite.



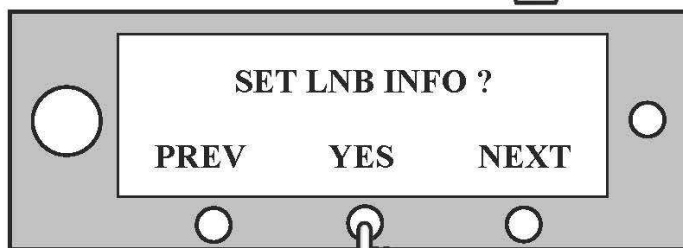
1. Press **MENU** will enter menu selection.



2. Press **YES** will enter **SET UP MODE**

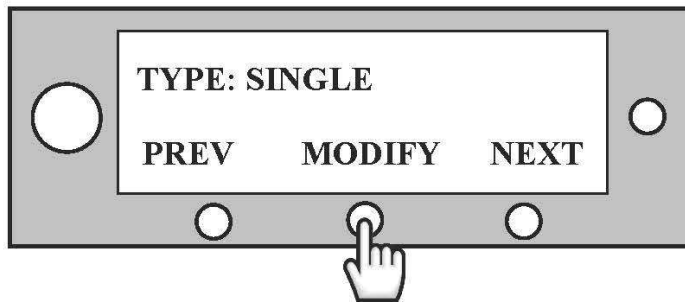


3. Press **NEXT** will go to next selection

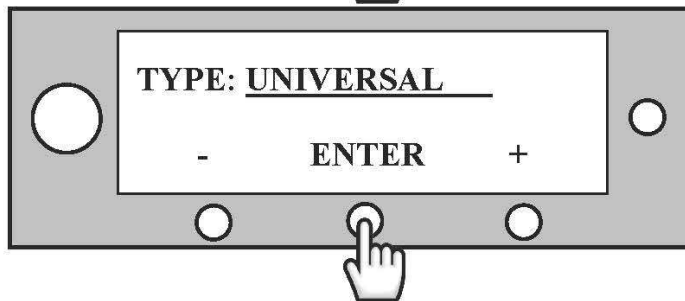


4. Press **YES** will enter "SET LNB INFO"

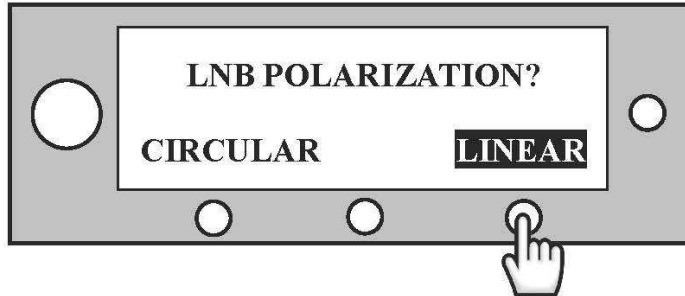
5 Set LNB Information



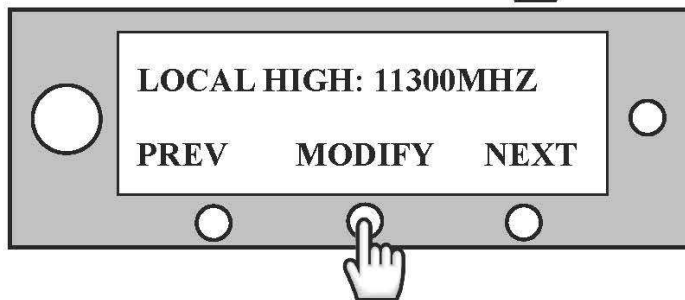
5. Press **MODIFY** will enter **LNB TYPE** modify mode. **OR** press **NEXT** will enter **HIGH LOCAL FREQUENCY** setting. Go to step7



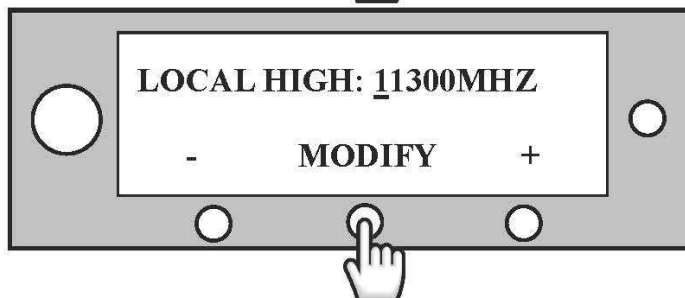
6. Press +/- to change LNB type Press **ENTER** will input the accept data. Go to step5



7. Press **CIRCULAR** or **LINEAR** will select the **LNB POLARIZATION**. Go to step8

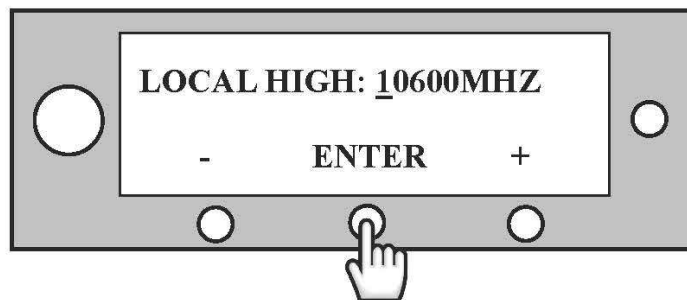


8. Press **MODIFY** will enter **HIGH LOCAL FREQUENCY** modify mode. The cursor will be flashing. **OR** press **NEXT** will go to next selection. Go to step13

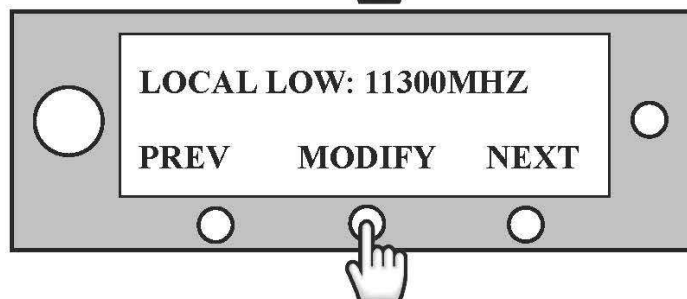


9. Press **MODIFY** the cursor will stop flashing. **OR** press +/- will move the cursor. **OR** press **Function** key will go to step8.

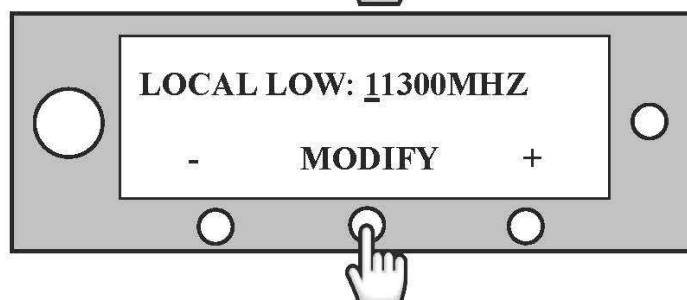
5 Set LNB Information



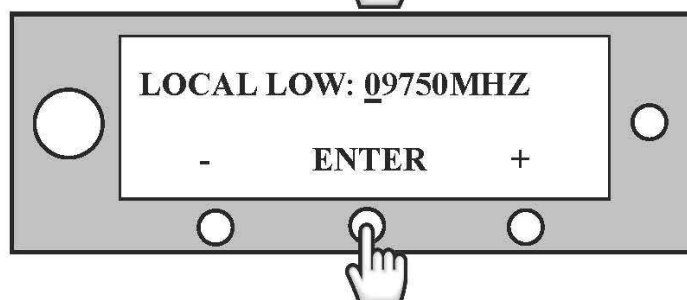
10. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing. Go to step 9



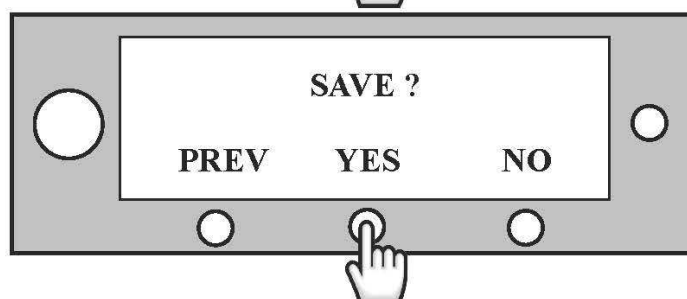
11. Press **MODIFY** will enter **LOW LOCAL FREQUENCY** modify mode. the cursor will be flashing.
OR press **NEXT** will go to next selection. Go to step 14



12. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step 11.



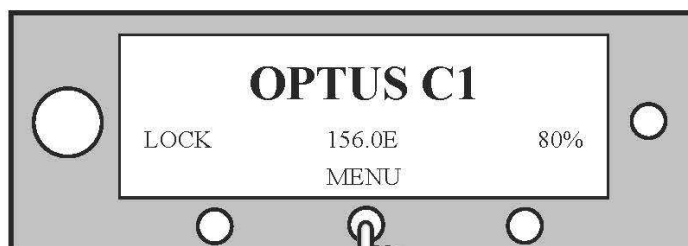
13. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will stop flash. Go to step 12



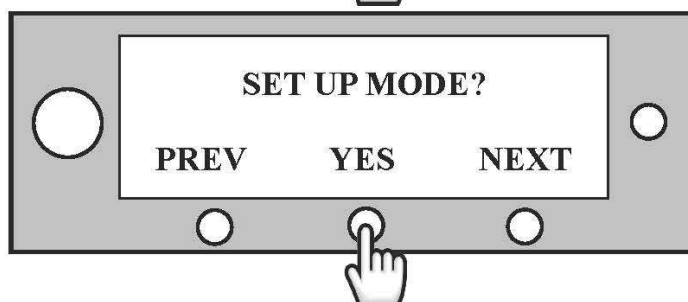
14. Press **PREV** will return to step 11
OR press **YES** will save the setting
OR press **NO** will cancel the setting

⑥ Set GPS Information

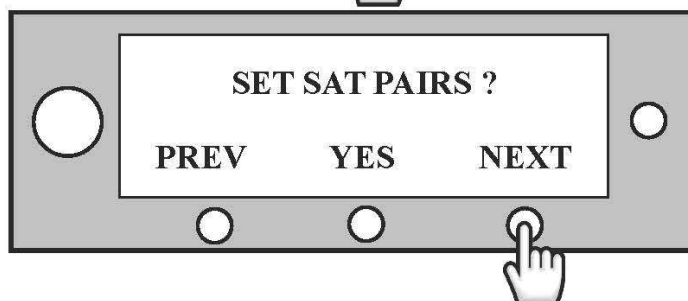
Set up the local GPS information will help the antenna to lock onto the target satellite more quickly.



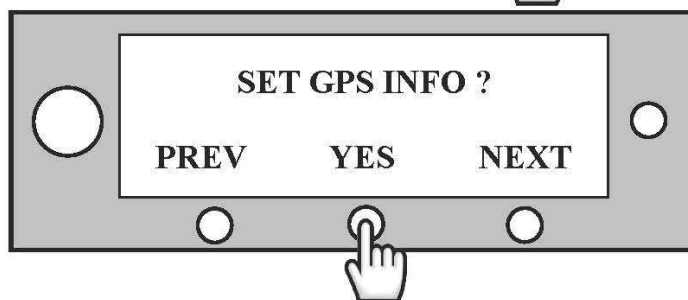
1. Press **MENU** will enter menu selection.



2. Press **MENU** will enter **SET UP MODE**.

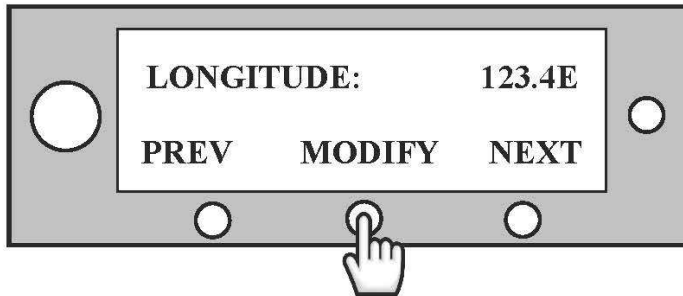


3. Press **NEXT** twice will go to **SET GPS INFO** selection.

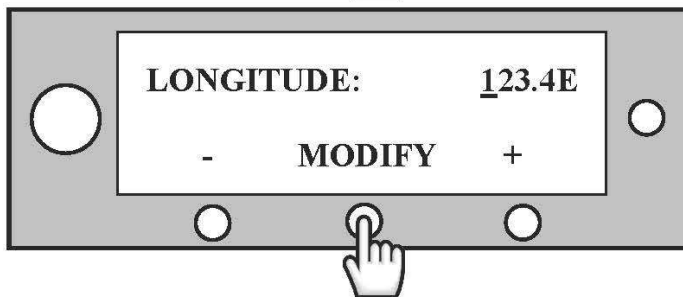


4. Press **YES** will enter **SET GPS INFO**.

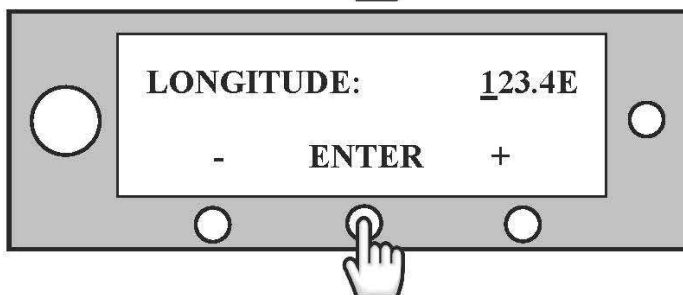
⑥ Set GPS Information



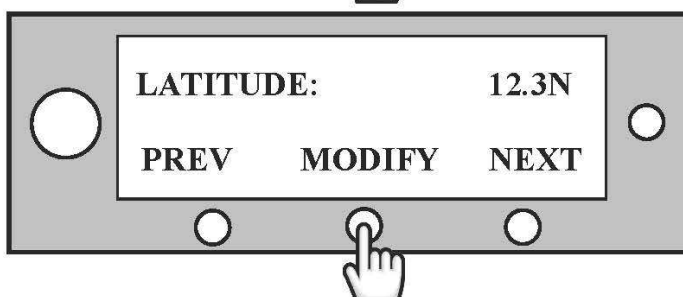
5. Press **MODIFY** will enter **LONGITUDE** modify mode. The cursor will be flashing. **OR** press **NEXT** will go to step 8.



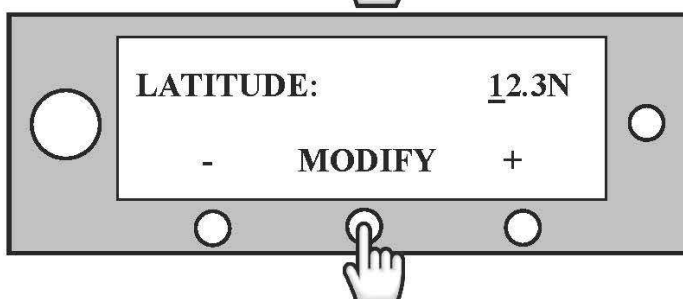
6. Press **MODIFY** the cursor will stop flashing. **OR** press +/- will move the cursor. **OR** press **Function** key will go to step 5.



7. Press +/- will modify the bit of data where the cursor be flashing. **OR** press **ENTER** will input the accept data. And the cursor will stop flash. Go to step 6.



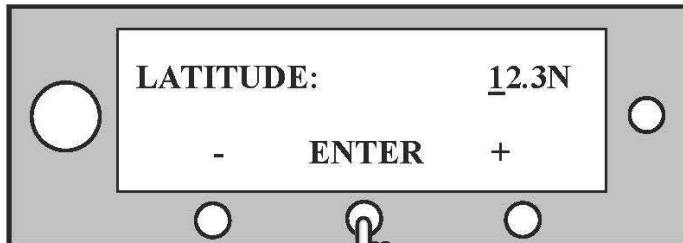
8. Press **MODIFY** will enter **LATITUDE** modify mode. **OR** press **NEXT** will go to step 11.



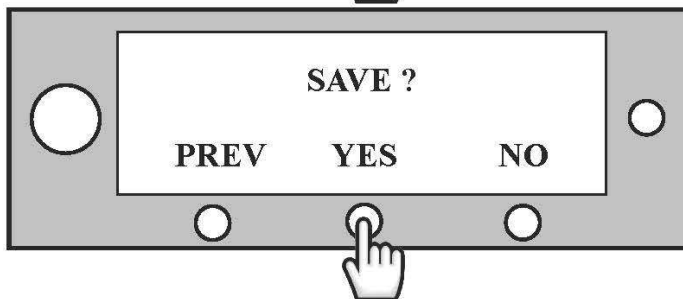
9. Press **MODIFY** the cursor will be flashing. **OR** press +/- will move the cursor. **OR** press **Function** key will go to step 8.



⑥ Set GPS Information



10. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will stop flashing. Go to step9



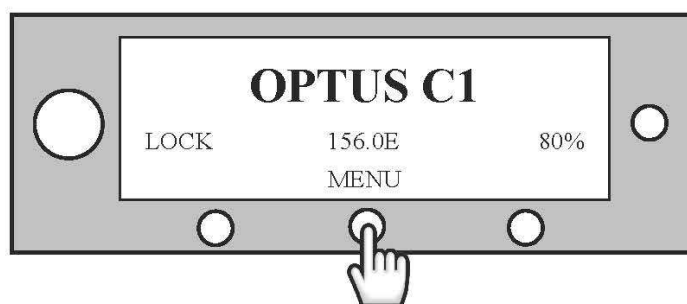
11. Press **PREV** will return to step8
OR press **YES** will save the setting
OR press **NO** will cancel the setting

7 Edit Satellite Information

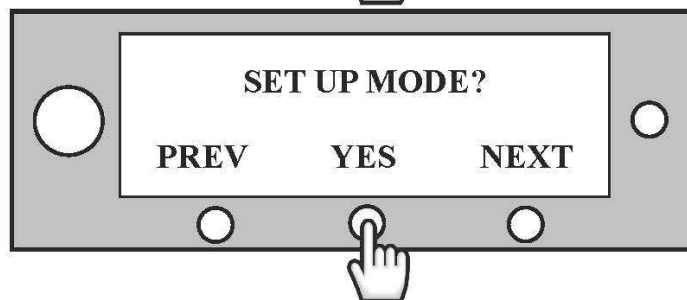
System is built-in global satellite library. It's allowed to edit the satellite information according to the actual situation



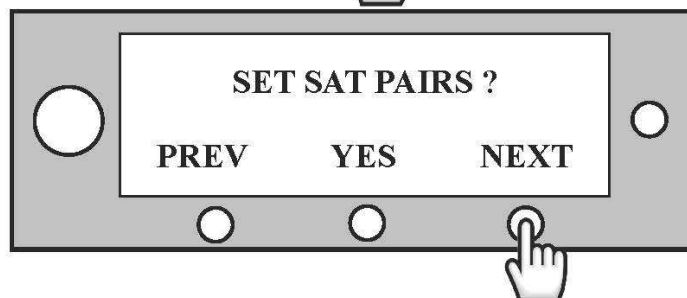
Require only technician to edit the satellite information, otherwise antenna will probably not lock onto the target satellite



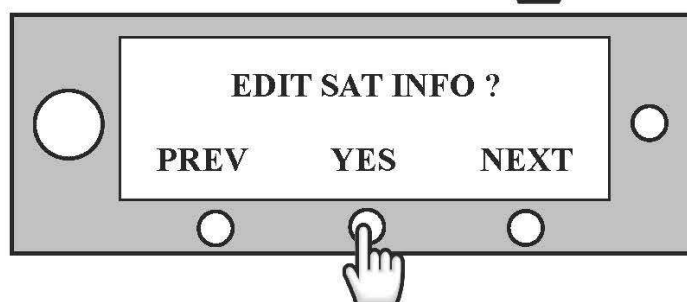
1. Press **MENU** will enter menu selection.



2. Press **YES** will enter **SET UP MODE**.

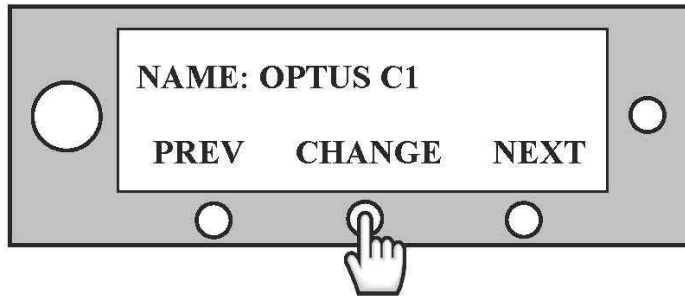


3. Press **NEXT** four times will go to **EDIT SAT INFO** selection

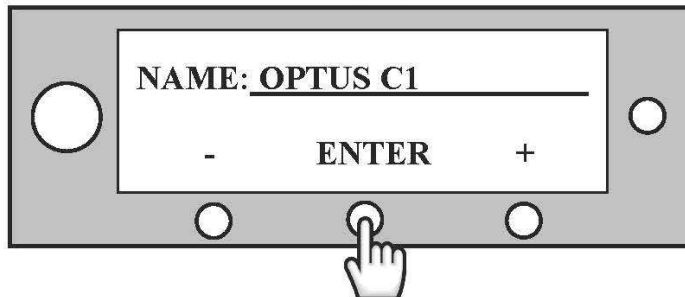


4. Press **YES** will enter **EDIT SAT INFO**

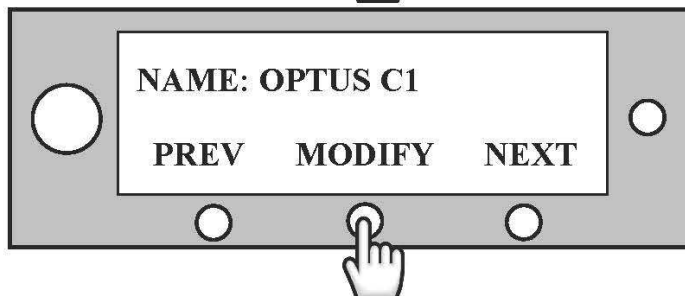
7 Edit Satellite Information



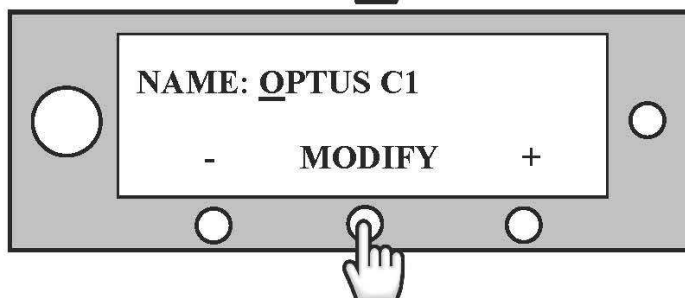
5. Press **CHANGE** can change another satellite. Go to step6
OR Press **NEXT** go to step7



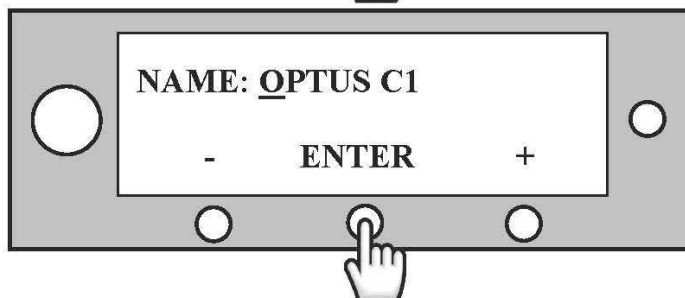
6. Press +/- can select a satellite you want to modify from the global satellite library
OR press **ENTER** will input the accept data. Go to step5



7. Press **MODIFY** can modify the satellite name. The cursor will be flashing. Go to step8
OR press **NEXT** will go to step10

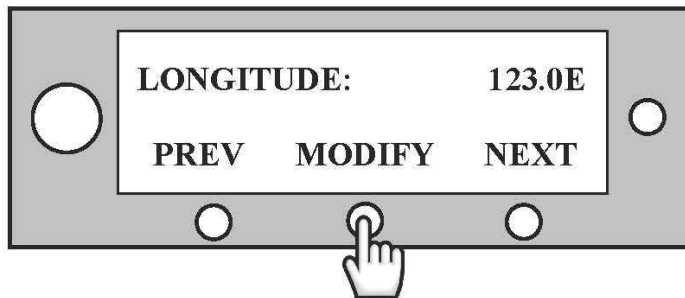


8. Press **MODIFY** the cursor will stop flashing. Go to step9
OR press +/- will move the cursor.
OR press **Function** key will go to step7.

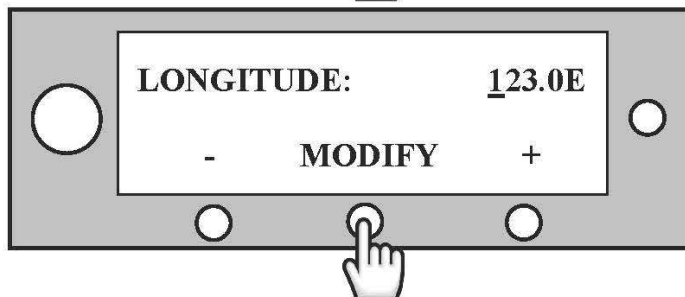


9. Press +/- will modify the bit of data where the cursor be
OR press **ENTER** will input the accept data. And the cursor will be flashing. Go to step8

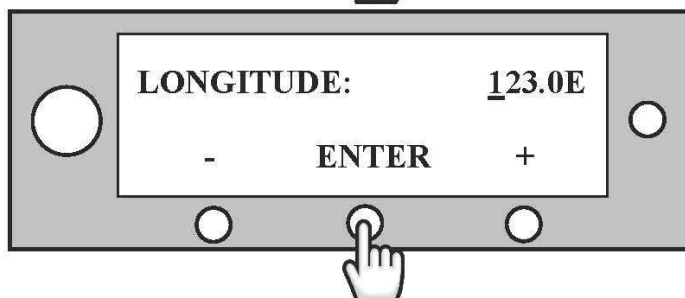
7 Edit Satellite Information



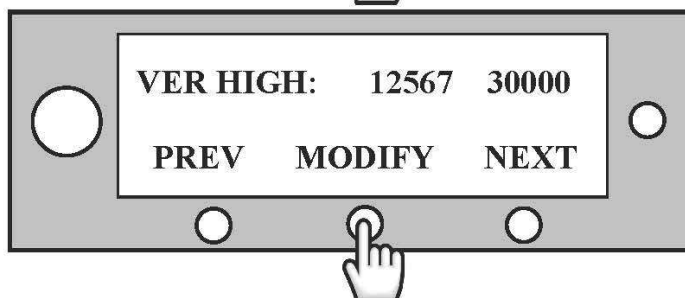
10. Press **MODIFY** can modify the satellite longitude. The cursor will be flashing. Press **NEXT** go to step13.



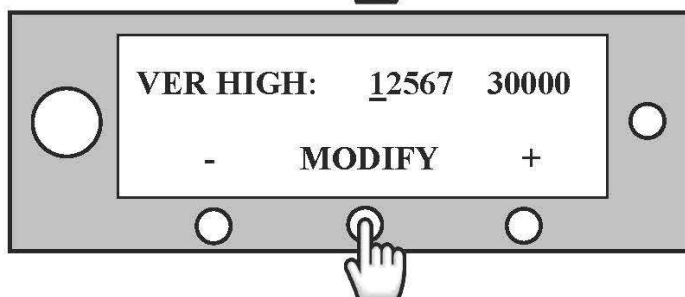
11. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step10.



12. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing. Go to step11

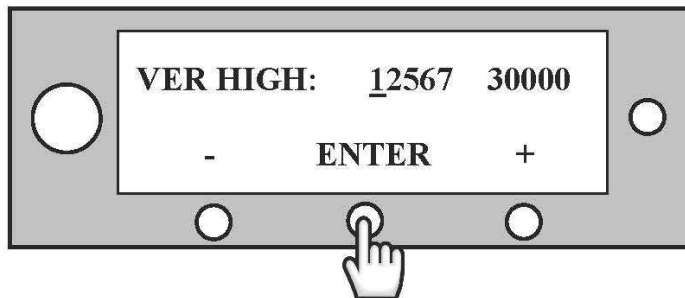


13. Press **MODIFY** can modify the **HIGH VERTICAL FREQUENCY** and **HIGH VERTICAL SYMBOLRATE**. Press **NEXT** go to step16. Press **PREV** go to step10.

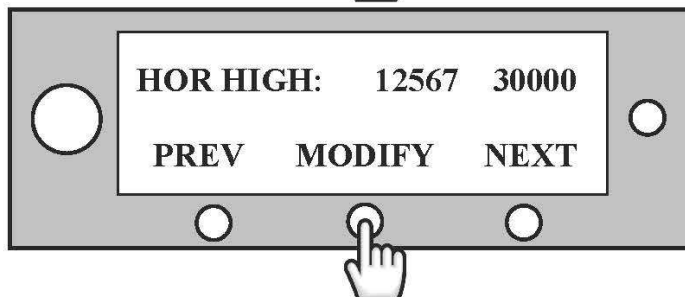


14. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step13.

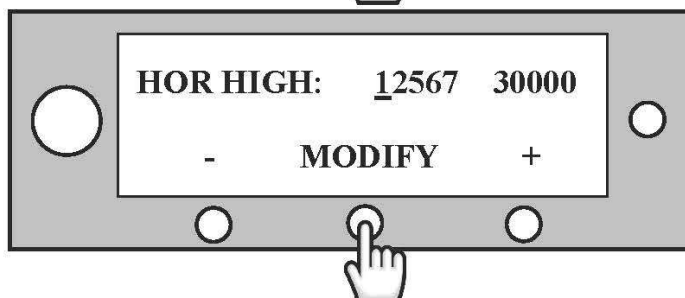
7 Edit Satellite Information



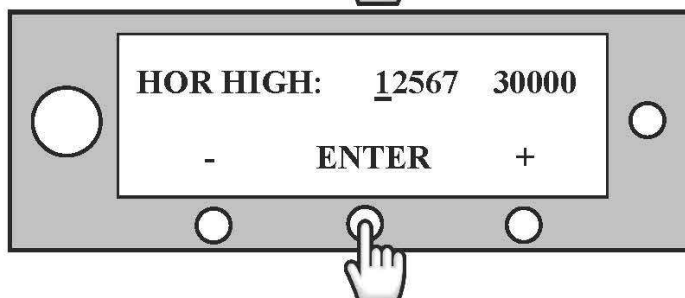
15. Press +/- will modify the bit of data where the cursor be.
OR press ENTER will input the accept data. And the cursor will be flashing. Go to step 14



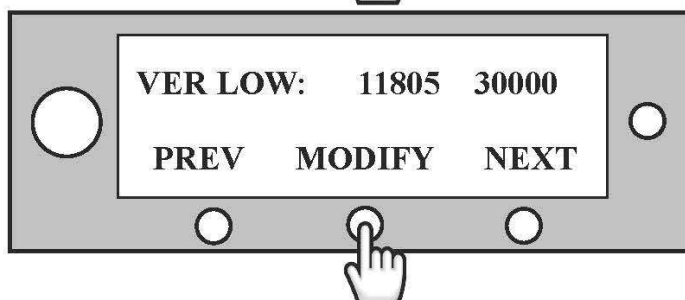
16. Press MODIFY can modify the HIGH HORIZONTAL FREQUENCY and HIGH HORIZONTAL SYMBOLRATE. The cursor will be flashing.
Press NEXT go to step 19.
Press PREV go to step 13.



17. Press MODIFY the cursor will stop flashing.
OR press +/- will move the cursor.
OR press Function key will go to step 16.

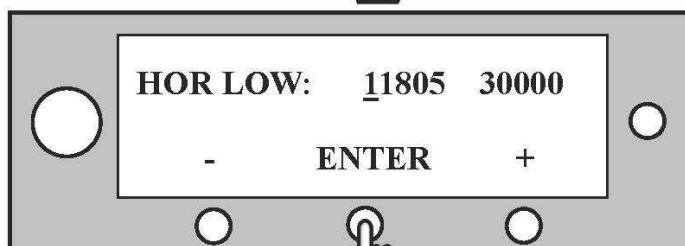
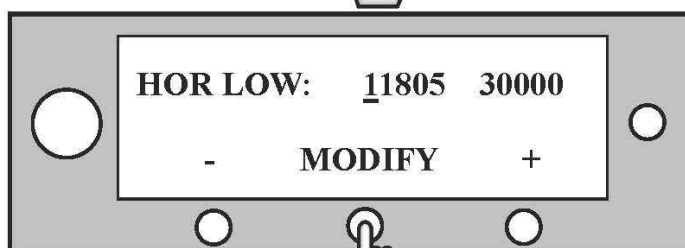
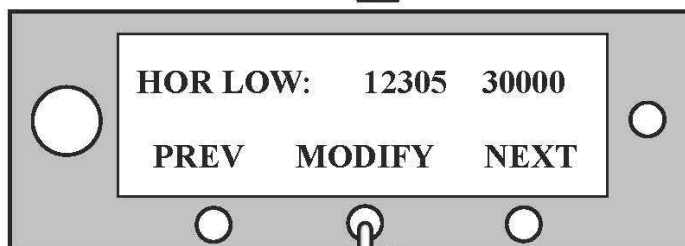
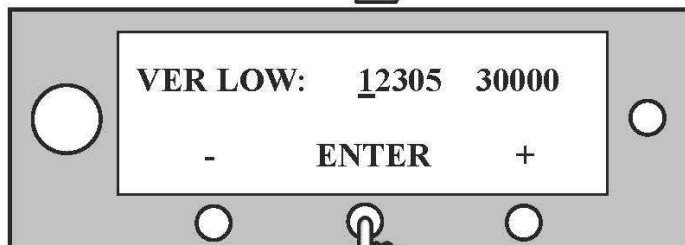
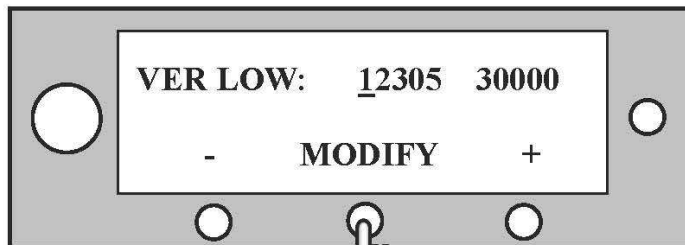


18. Press +/- will modify the bit of data where the cursor be.
OR press ENTER will input the accept data. And the cursor will be flashing. Go to step 17



19. Press MODIFY can modify the LOW VERTICAL FREQUENCY and LOW VERTICAL SYMBOLRATE. The cursor will be flashing.
Press NEXT go to step 22.
Press PREV go to step 16.

7 Edit Satellite Information



20. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step19.

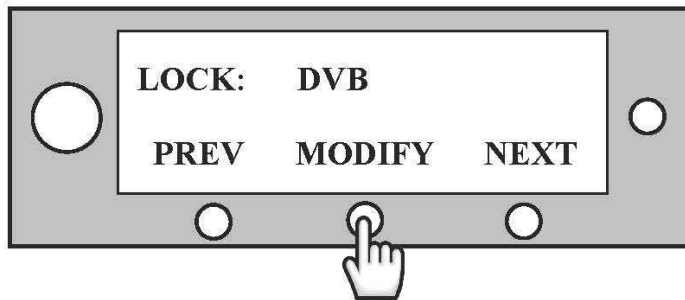
21. Press +/- will modify the bit of data where the cursor be.
OR press **ENTER** will input the accept data. And the cursor will be flashing. Go to step20

22. Press **MODIFY** can modify the **LOW HORIZONTAL FREQUENCY** and **LOW HORIZONTAL SYMBOLRATE**. The cursor will be flashing.
 Press **NEXT** go to step25.
 Press **PREV** go to step19.

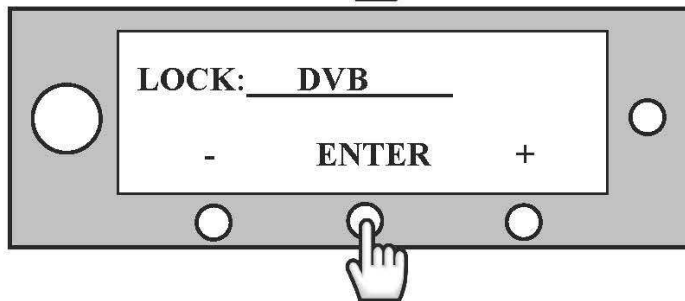
23. Press **MODIFY** the cursor will be flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step22.

24. Press +/- will modify the bit of data where the cursor stop flash.
OR press **ENTER** will input the accept data. And the cursor will be flashing. Go to step23

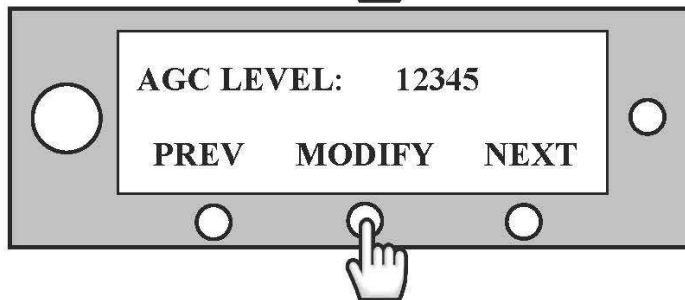
7 Edit Satellite Information



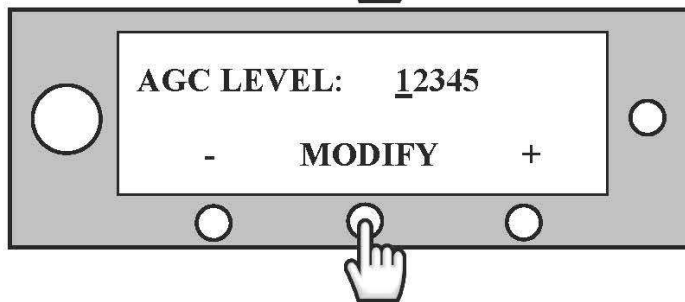
25. Press **MODIFY** can modify the demodulate lock mode
Press **PREV** go to step22.
Press **NEXT** go to step27.(AGC)
Go to step30(DVB)



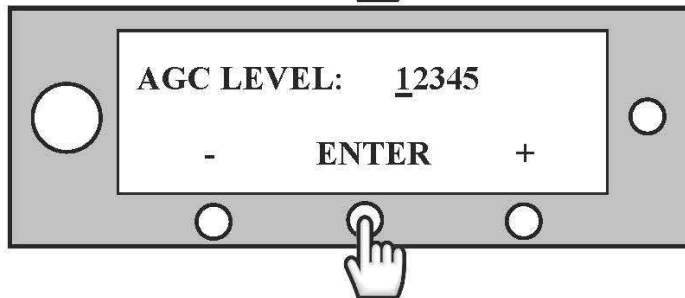
26. Press +/- will modify the data(DVB AGC ABS)
OR press **ENTER** will input the accept data. Go to step25



27. Press **MODIFY** can modify the **AGC SIGNAL LEVEL**.The cursor will be flashing.
Press **NEXT** go to step30.
Press **PREV** go to step25.

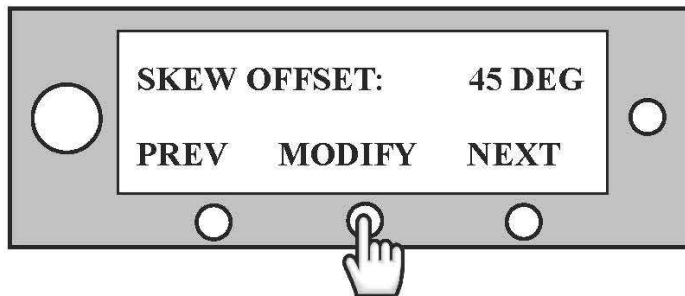


28. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step27.

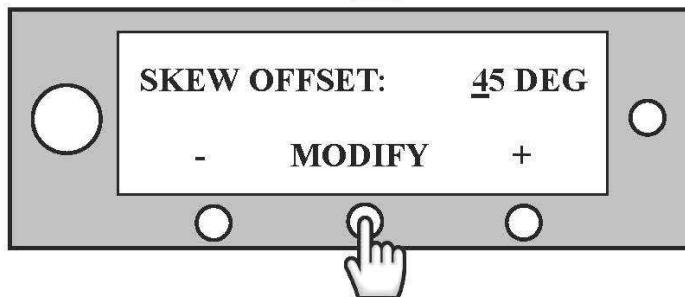


29. Press +/- will modify the bit of data where the cursor stop flash.
OR press **ENTER** will input the accept data. And the cursor will be flashing.Go to step28

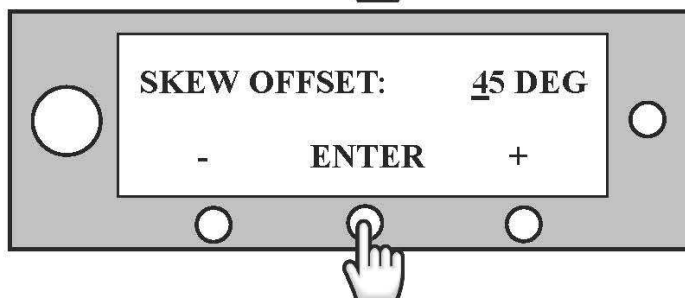
7 Edit Satellite Information



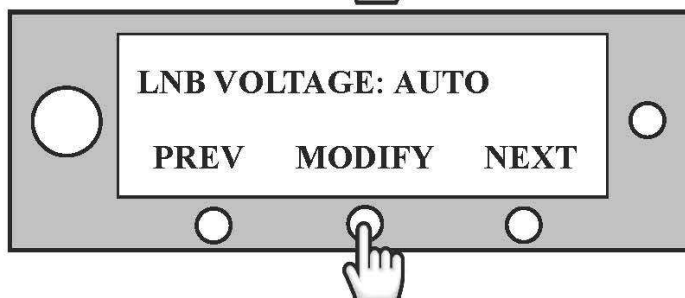
30. Press **MODIFY** can modify the **SKEW OFFSET**
Press **NEXT** go to step33.
Press **PREV** go to step27.



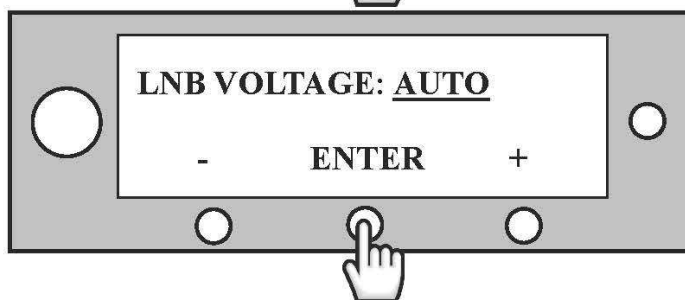
31. Press **MODIFY** the cursor will stop flashing.
OR press +/- will move the cursor.
OR press **Function** key will go to step30.



32. Press +/- will modify the bit of data where the cursor stop flash.
OR press **ENTER** will input the accept data. And the cursor will be flashing. Go to step31

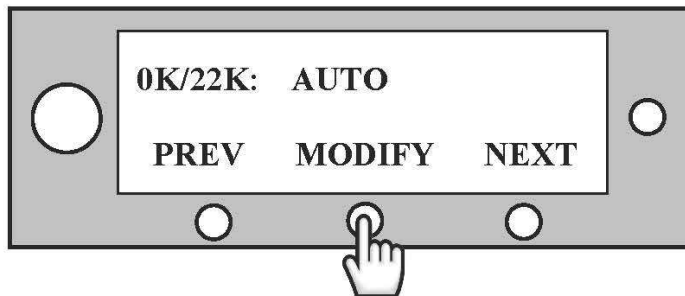


33. Press **MODIFY** can modify the **LNB'S VOLTAGE CONTROL MODE**
Press **NEXT** go to step35.
Press **PREV** go to step30.



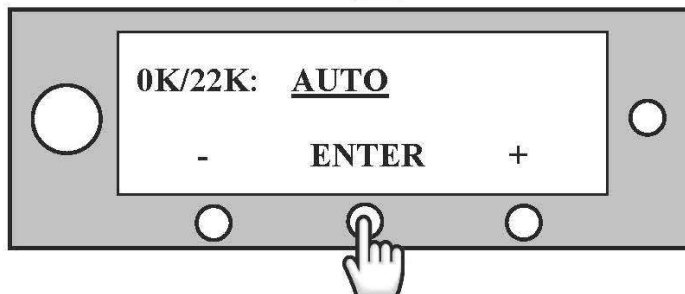
34. Press +/- will modify the data (AUTO,13V,18V)
OR press **ENTER** will input the accept data.
Go to step33

7 Edit Satellite Information

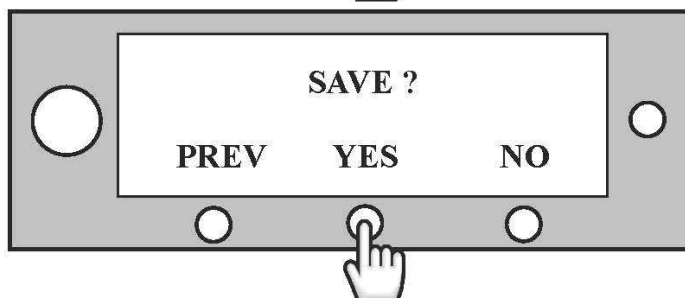


35. Press **MODIFY** can modify the **0K/22K CONTROL MODE**.

Press **NEXT** go to step37.
Press **PREV** go to step33.



36. Press +/- will modify the data (AUTO,0K,22K)
OR press **ENTER** will input the accept data. Go to step35

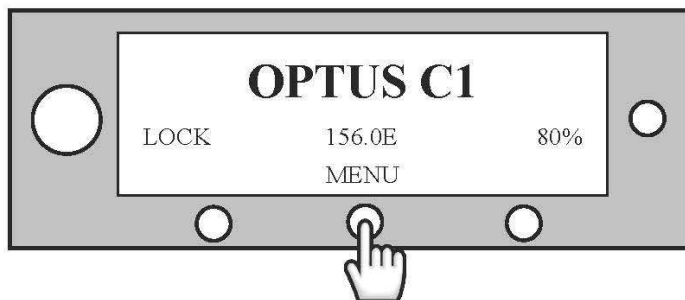


37. Press **YES** save all the modified data
Press **NO** cancel the modified data.
Press **PREV** go to step35

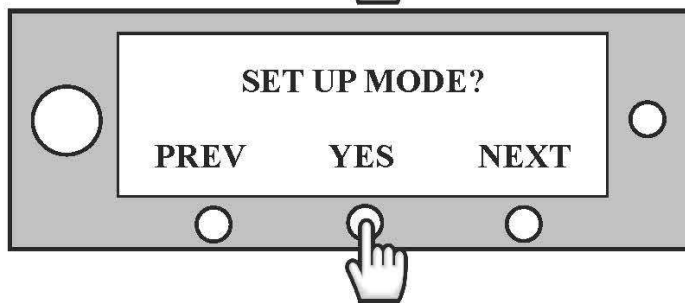
8 Set To Default Settings



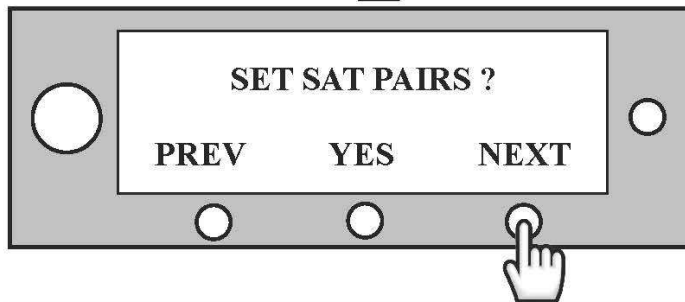
This action will set to factory default settings. So you must confirm before you do



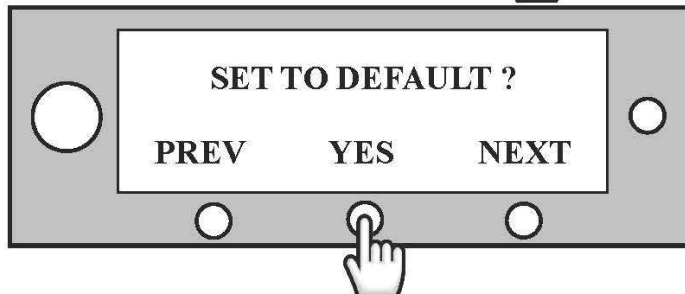
1. Press **MENU** will enter menu selection.



2. Press **YES** will enter **SET UP MODE**.



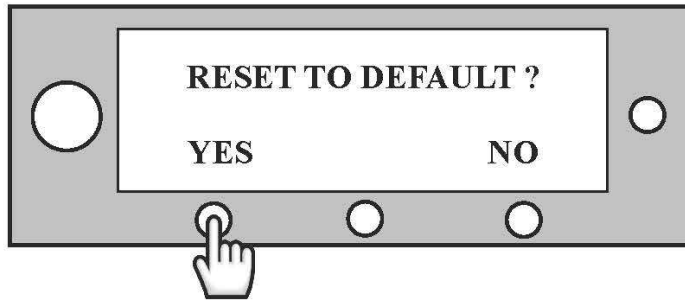
3. Press **NEXT** five times will go to **SET TO DEFAULT** selection



4. Press **YES** will enter **SET TO DEFAULT**



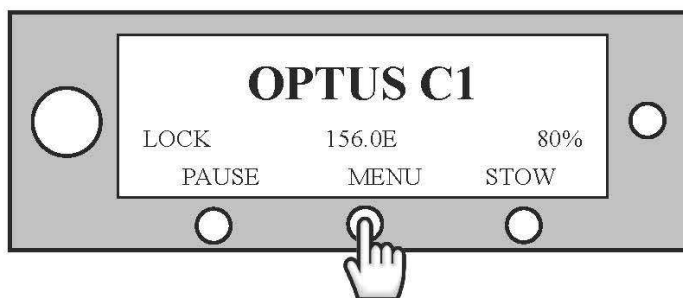
⑧ Set To Default Settings



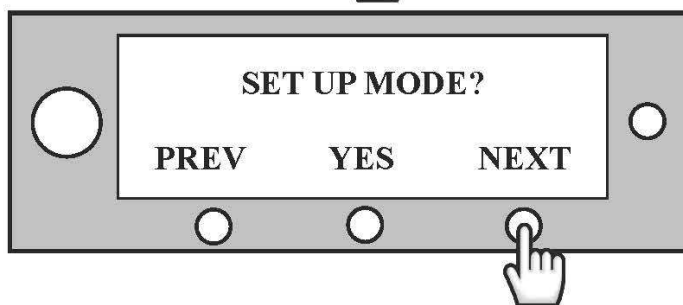
5. Press **YES** will set all the data to default setting
Press **NO** cancel the operate.

⑨ Monitor and Diagnostic

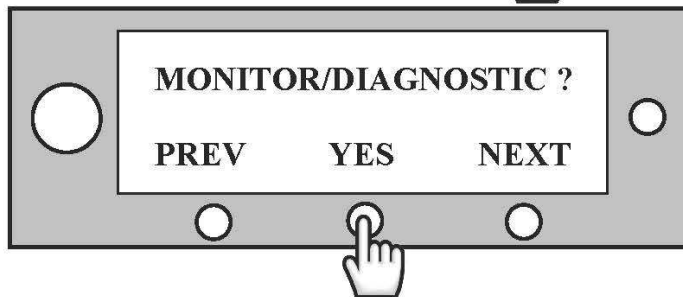
You can monitor the real-time data of the system. IDU will tell you whether the relevant data working properly or not. At the same time, It will give you some suggestions to fix it if it is faulty.



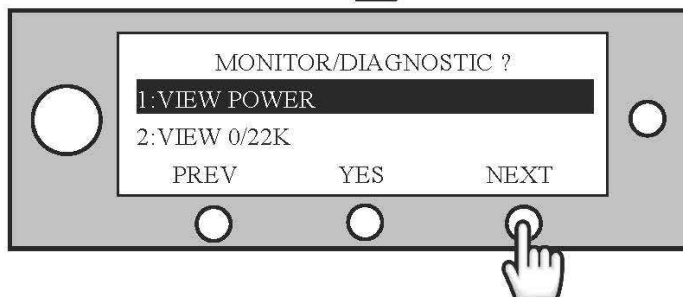
1. Press **MENU** will enter menu selection.



2. Press **NEXT** go to **MONITOR/DIAGNOSTIC** selection

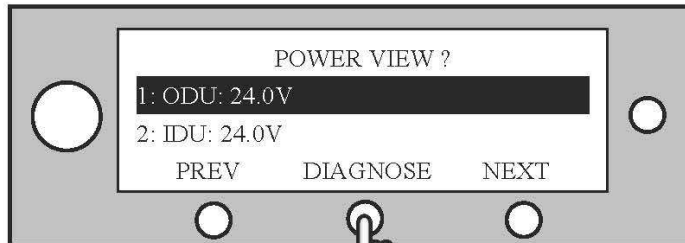


3. Press **YES** will enter **MONITOR/DIAGNOSTIC** mode

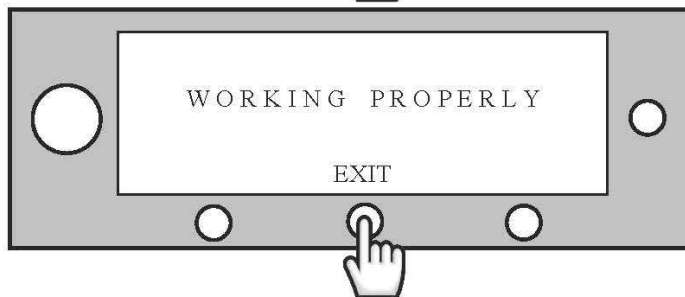


4. Monitor/Diagnostic selection
 - 1:VIEW POWER
 - 2:VIEW 0/22K
 - 3:VIEW LIMIT
 - 4:VIEW GPS
 - 5:VIEW SAT SIGNAL
 - 6:EL MOVE STEP
 - 7:AZ MOVE STEP
 - 8:SKEW MOVE STEP
 - 9:COMMUNICATION
 - 10:SOFTWARE VERSION

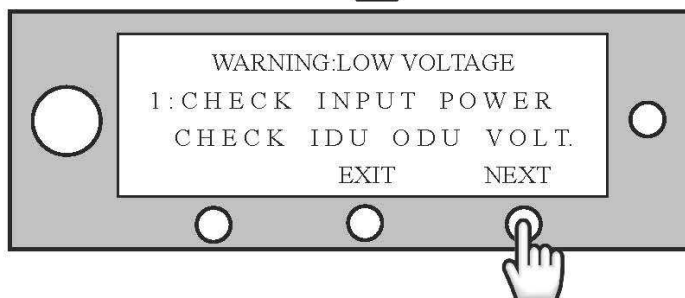
⑨ Monitor and Diagnostic



5. Power View Selection
ODU:ODU's voltage
IDU:IDU's voltage
STB:set top box voltage
LNB:LNB voltage



6. Prompt working properly



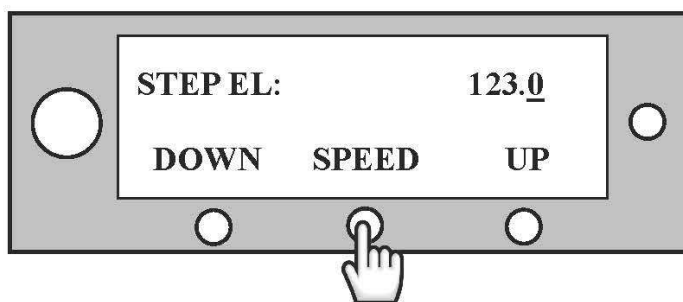
7. Prompt working abnormal
Press **NEXT** view more information

⑨ Monitor and Diagnostic

Manual control mode

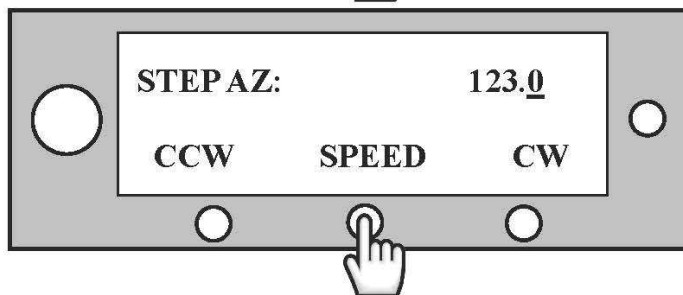


This feature is very useful for you to control the angle of the antenna manually, include EL, AZ, SKEW.



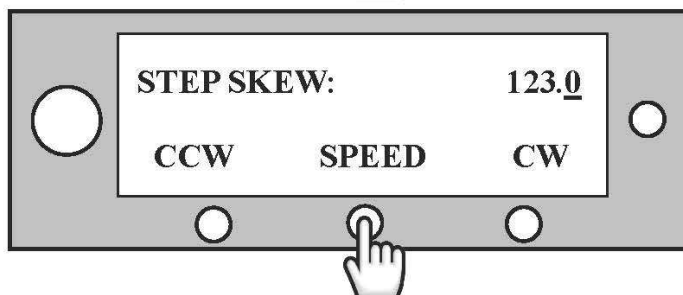
UP/DOWN: The direction of rotation

SPEED: The speed of rotation



CW/CCW: The direction of rotation

SPEED: The speed of rotation



CW/CCW: The direction of rotation

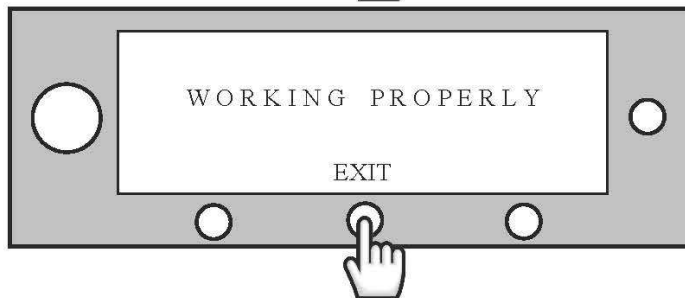
SPEED: The speed of rotation

⑨ Monitor and Diagnostic

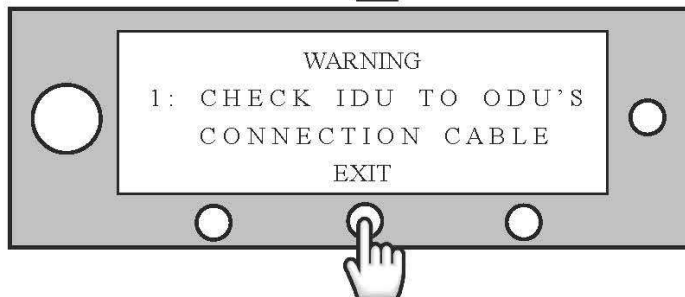
Communication



1. DIAGNOSE:View diagnostic hints

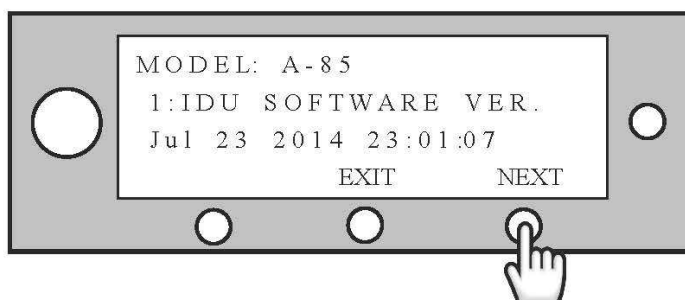


2. Prompt working properly



3. Prompt working abnormal

Software version



4. Check software version
Press NEXT view more information



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