Satellite Communication Setting Guide

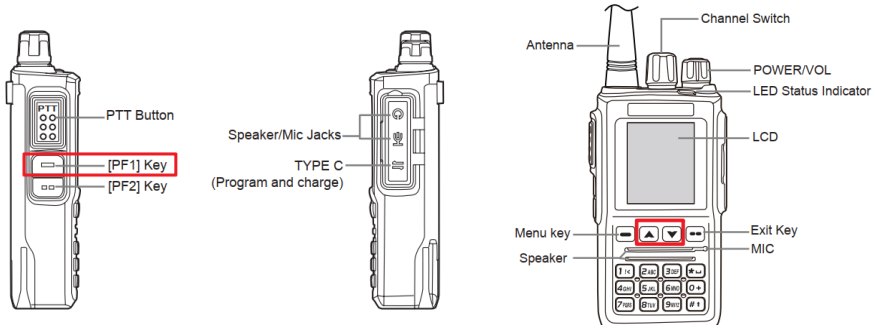
Note:

1. The antennas that come with the Radioddity GD-168 are not suitable for satellite calls. You may need to purchase a longer, higher-gain antenna for testing.
2. We recommend using two GD-168s for satellite calls, as other brands and models have not been tested yet.

1. Time Setting

Enter MAIN MENU --> SETTING --> RADIO SET --> OTHER FUNC

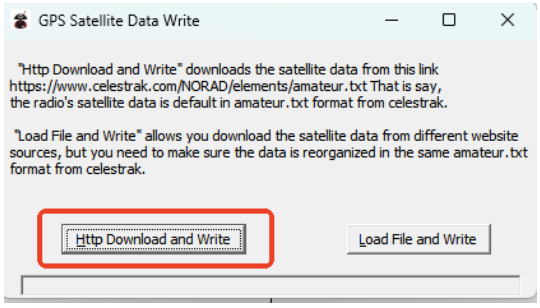
- Select No.23 TIME ZONE to set your time zone, for example UTC-8:00
- Select No.25 DATE TIME – TIME SET to set the current time data. Use the PF1 Button to switch Year/Month/Data/Hour/Minute, and the Up and Down button to set the number.



2. Update The Satellite Date Base

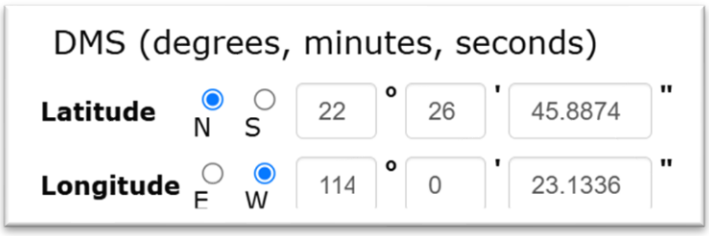
In the programming software, enter TOOL-->Satellite data writing

Click the button “Download and Write” to write the latest satellite data to your radio



3. Radio Latitude and Longitude Settings

First, search the latitude and longitude query website on the Internet to find the latitude and longitude of your position. For example



Enter MAIN MENU --> SATELLITE --> LOCATION
Select a Fixed Beacon to save your latitude and longitude information, for example Fixed Beacon1

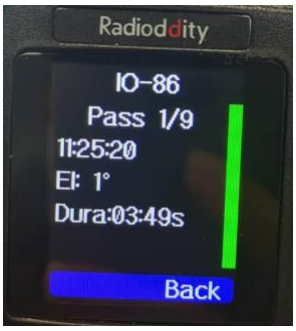
Use the keypad to enter first 6 digits of Latitude (click the Up and Down button to switch N and S) and first 7 digits of Longitude (click the Up and Down button to switch E and W), the radio will automatically correct your information according to the satellite data.

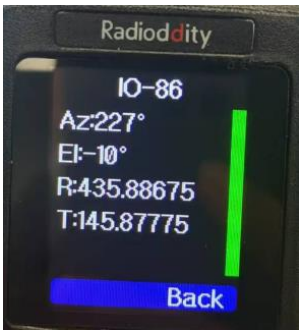
Click SELECT to confirm.

4. Transiting Satellite Selection
Enter MAIN MENU --> SATELLITE --> SATELLITE

The radio will provide a list of satellite according to your preset information above (time zone, time, latitude and longitude).

Select a satellite to operate the communication (normally select the closest one).
In the Satellite interface, press the Up and Down buttons to check different information.





Abbreviation Explanation:
Az: Azimuth
El: Elevation angle
Max: Maximum elevation angle
R: RX
T: TX
Dura: Satellite effective time (theoretically)

Note:
1. The satellites that can be used by amateur radios pass through different countries at different times, so you need to do a survey in advance. You can also test at different time points to find the pattern of satellite passing.
2. The green line is the satellite trajectory.
3. Pressing PTT to transmit is effective only when the red dot is in the innermost ring.

5. Other
The GD-168 equipped antennas are not suitable for satellite calls. You may need to get a longer and higher-gain antenna for testing.