

FREEVIEWSHOP

Installation Instructions for Setting up a dish for D1/D2/C1.

Step 1: Assemble the Dish and Mount using instruction sheets supplied or look for the instructions here:

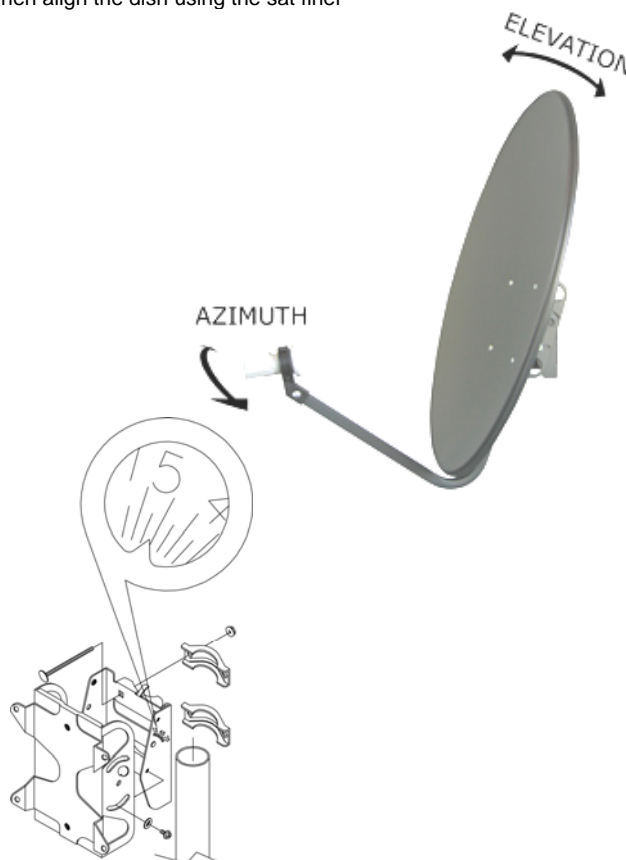
<http://www.freeviewshop.co.nz/forum/index.php/board,8.0.html>

Step 2: After assembling the dish, fit the LNB to dish, ensure the skew is as is shown for your LNB:



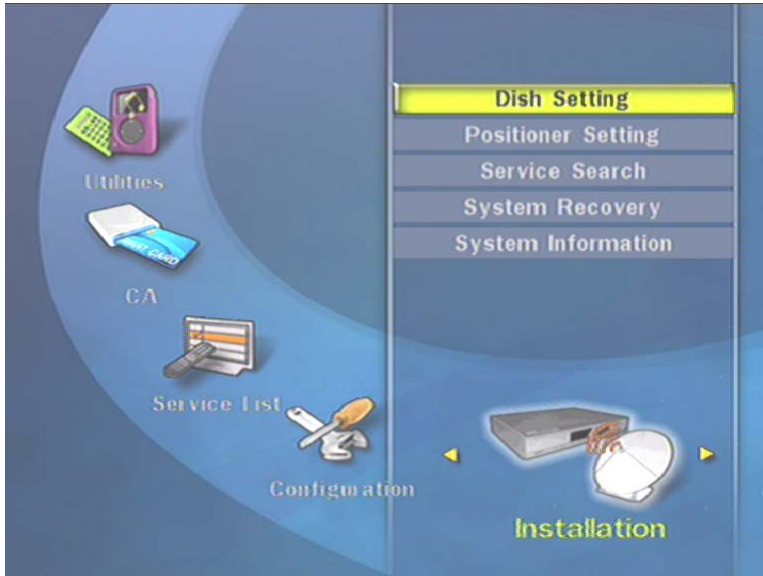
Step 3: Set the gauge at the back of the dish to the **approximate** elevation given in the table below, Dishes are offset so that the LNB does not shadow the signal received, Then align the dish using the sat finer

Location	Elevation Sat	Azimuth (Compass)
Kaitaia	45.1	313.4
Whangarei	44.1	311.8
Auckland	42.9	311.1
Thames	42.3	309.9
Hamilton	41.8	310.3
Rotorua	41.2	308.8
Gisbourne	39.9	306.2
Hastings	39.4	307.9
Palmerston North	39.1	309.6
Lower Hutt	38.6	310.6
Wellington	38.6	310.8
Picton	38.8	311.9
Nelson	39.1	313
Blenheim	38.7	312
Westport	39.1	315.6
Christchurch	37.1	313.3
Timaru	36.4	314.6
Oamaru	35.8	315.4
Dunedin	35.1	315.6
Invercargill	35	318.7
Bluff	34.7	318.6
Stuart Island	34.4	318.9

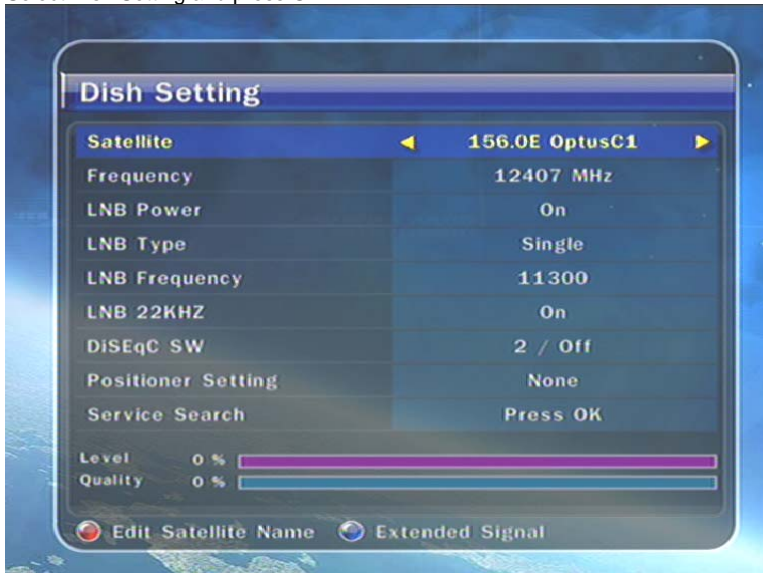


Step 4: Align the dish on OPTUS C1 using the receiver as detailed below

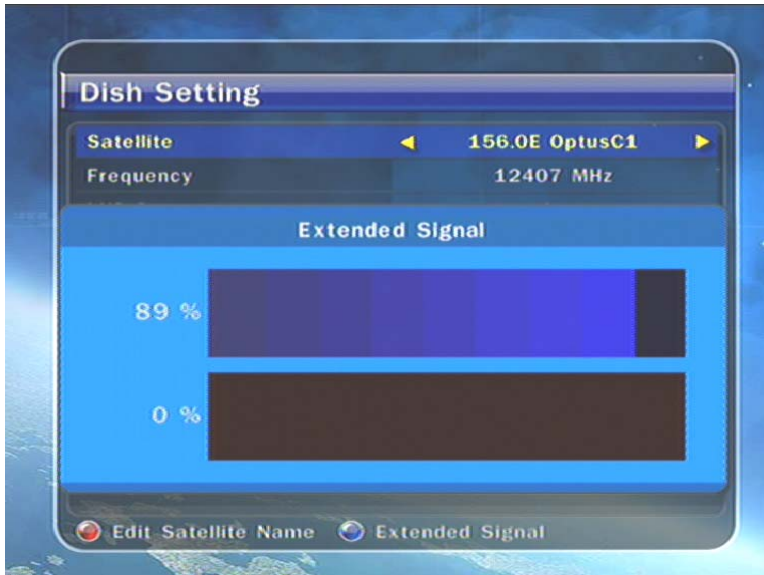
Press the **MENU** button on the remote control to enter the Main Menu.



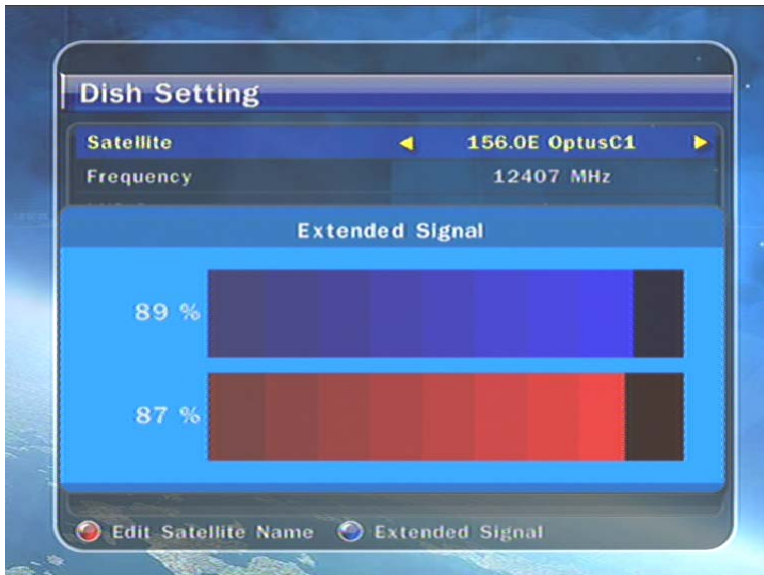
Select Dish Setting and press **OK**.



Use the > button to select the OPTUSC1 Satellite and make sure the 12407MHz Transponder is selected and Press the **Blue** button.



Move the dish until you get a lock on the satellite (Quality will show red as shown below). This step may take some time. You should now optimise the Elevation and Azimuth of your dish and the Skew of the LNB to get the Quality indicator as high as possible.



Scroll down to Manual Scan, and press **OK**.

Your receiver is pre tuned so once you have finished you can just press exit a few times and change to the INFO 156°E channel.

**Optus Aurora
Information and Tuning Channel**

**Optus C1 Satellite at 156°E
Audio Tone @ -14 dBfs / 1Khz Stereo**

**For Remote Area Broadcast Services
TX Alignment refer to
Radio Channel 21**



If this channel is not working you may have lined up on the OPTUS D2 and the TUNE 152°E channel will work instead. You will need to increase the elevation so the LNB moves upwards by approx 1cm and change the azimuth so the LNB moves approx 5cm east, then optimize the azimuth and elevation again.



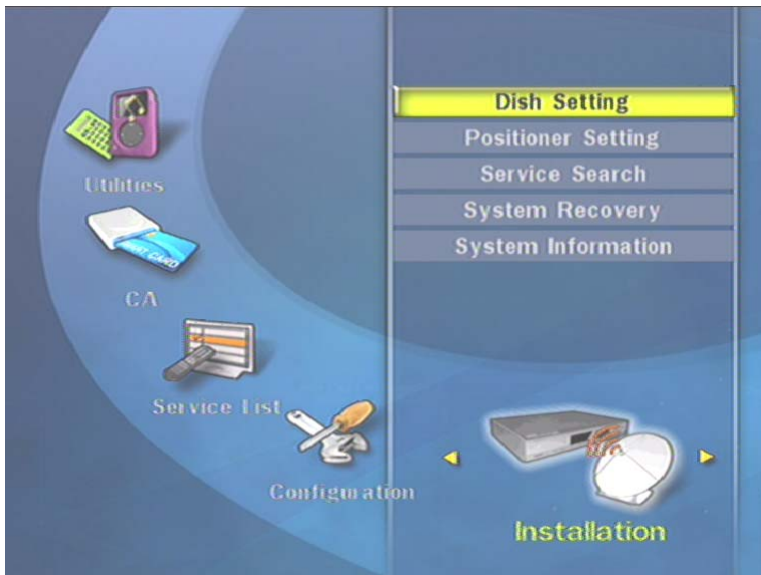
Step 5: Install the bracket as shown onto your dish. The Bracket is held by nuts on the F Type Connectors of the LNBs.



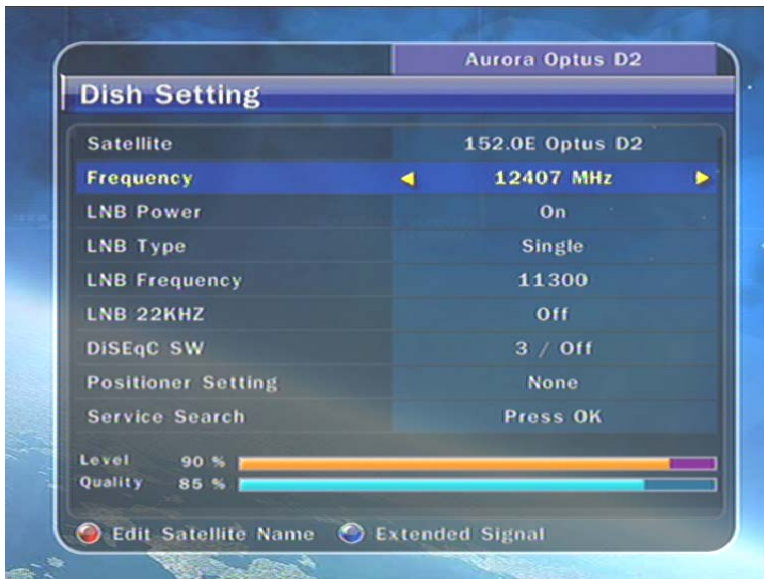
Step 6: Adjust the skew of the Bracket to optimise the OPTUS D2 Reception.

Undo the screws (a little bit) holding the OPTUS C1 LNB so you can rotate the bracket, attach the receiver to the OPTUS D2 LNB and optimise the skew of the bracket using the receiver as detailed below

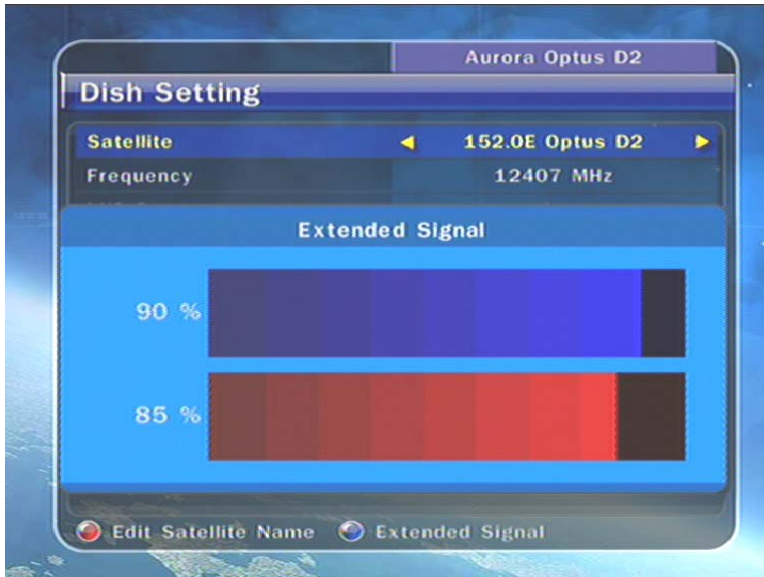
Press the **MENU** button on the remote control to enter the Main Menu.



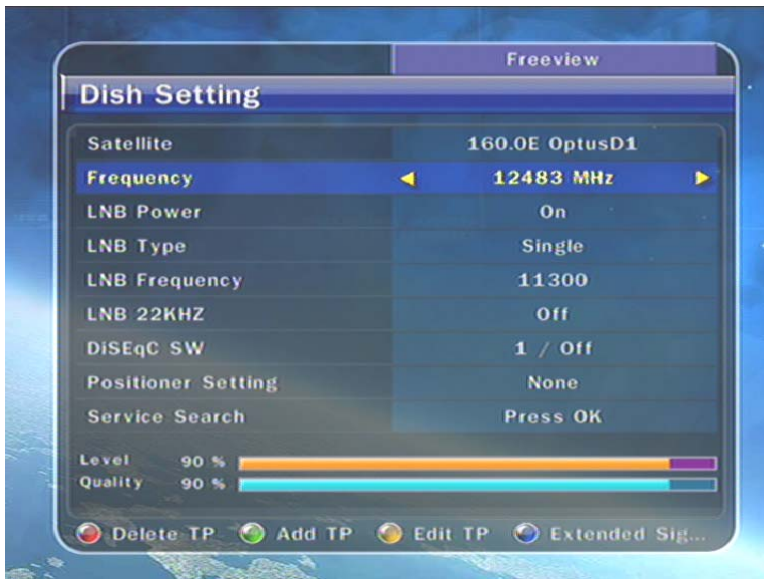
Select Dish Setting and press **OK**. Then Select the Optus D2 Satellite.



Press the **Blue** button and rotate the bracket until you have maximized the quality, then tighten the skew holding the center LNB.



Step 6: Check OPTUS D1 is working well by attaching to the D1 LNB and checking that you have a lock as well, Press Exit then Select the Optus D1 Satellite and the 12483MHz transponder.



You should see good quality level as shown above.

Step 7: Install the switch, the receiver is setup so that:

OPTUS D1 = DiSEqC Port 1
OPTUS C1 = DiSEqC Port 2
OPTUS D2 = DiSEqC Port 3

So connect one of the short cables from the OPTUS D1 LNB to Port 1 on the switch, connect one of the short cables from the OPTUS C1 LNB to Port 2 on the switch, connect one of the short cables from the OPTUS D2 LNB to Port 3 on the switch.