

Set Up Instructions

Find the Right Transponder, on the Right Satellite,
First Time. Every Time.



LABGEAR

DVB-S2
SQ722

Digital Satellite Signal Quality Finder

Set Up Instructions

COARSE ALIGNMENT SETTINGS

1. CONNECT

Connect the SQ722 as shown below.
Your **Set Top Box** will power it, **external power is not required!**



2. POWER

Ensure your **Set Top Box** is switched **ON** so that DC power is available to your SQ722 and LNB.

3. CHECK

Check your LNB suitability:

Services 1-3 are set for 10.7GHz Local Oscillator (LO) frequency LNB's. The label on your LNB should indicate LO. A 10.7GHz LNB ensures all VAST transponders can be received.

Service 4 is set for C band, 5,150MHz LO LNB's and larger prime focus dishes.

4. SATELLITE

Satellite Button

Note: the Satellite button defaults to position 1 - Service 1 each time SQ722 starts up. Service 1 is for VAST and PayTV, use of Satellite button is unnecessary.

To change, press the Satellite button repeatedly:

- 1 Beep is for **Service 1** - Optus 10/D3 at 156°E
- 2 Beeps is for **Service 2** - Optus D2 at 152°E
- 3 Beeps is for **Service 3** - Intelsat 19 at 166°E
- 4 Beeps is for **Service 4** - AsiaSat 5 at 100.5°E

These 4 options have been carefully selected as the Satellites in most demand from Australia. Programming can be changed if necessary.

LABGEAR SQ722

Digital Satellite Signal Quality Finder

Set Up Instructions

COARSE ALIGNMENT SETTINGS

IMPORTANT!

It is **CRITICAL** that your Satellite Dish mount is **Stable AND Vertical**.



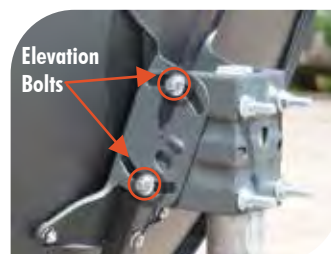
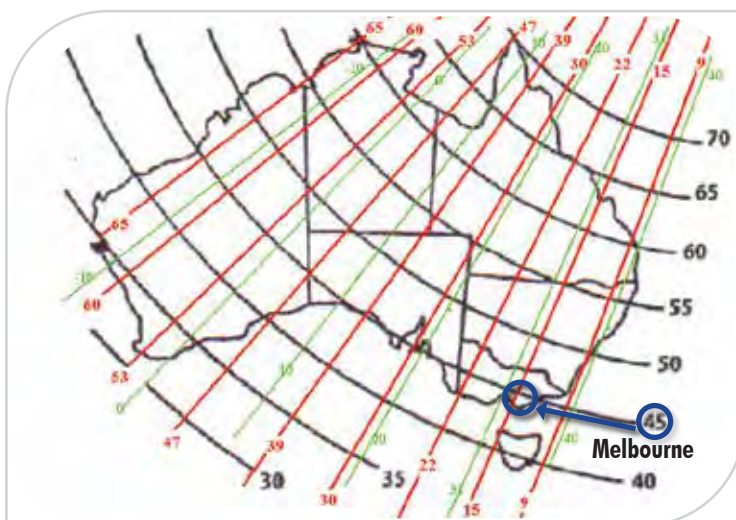
5. VAST/PAYTV

For VAST and PayTV set your dish Elevation Angle, Direction and LNB Skew or Rotation according to your position on the map below in step, **6. ELEVATION**.

-  **BLACK** lines indicate Satellite Dish or Antenna Elevation.
-  **GREEN** angle lines indicate LNB Skew or Rotation.
-  **RED** angle lines indicate Direction or Compass Bearing.

6. ELEVATION

Following the **BLACK** lines on the graph, set the Satellite Dish elevation. **For example:** in Melbourne, the elevation would be approximately 45 degrees.



Digital Satellite Signal Quality Finder

Set Up Instructions

COARSE ALIGNMENT SETTINGS

7. LNB

The next step is to set LNB Skew. Rotate the LNB following the **GREEN angle lines** on the map.

For example: in Melbourne, the adjustment angle would be +31 Degrees Rotation, clockwise.

NOTE:

Helpful markings are on the top of many LNB's.



8. COMPASS

Using a Compass and the **RED angle lines** on the map, point the left to right, azimuth or side ways position of the Satellite Dish in the direction indicated.

COARSE ALIGNMENT COMPLETE

SATELLITE DISH ALIGNMENT SETTINGS

9. SIGNAL

Looking at the instrument, there are 2 lines of LEDs.



GREEN lights represent Signal Quality.

RED lights represent Signal Level.

Signal Quality shows clearly when you have the right Satellite!

LABGEAR SQ722

Digital Satellite Signal Quality Finder

Set Up Instructions

SATELLITE DISH ALIGNMENT SETTINGS

10. DISH

From the alignment completed in step **8. COMPASS**.

Slowly move the Satellite Dish left and right until the instrument starts to beep and some Signal Quality lights **FLASH**.

At this point you may also notice the **LOCK** light on the instrument has become **GREEN**.

11. ADJUST

Now that you have found the required Satellite, it is just a matter of fine adjustments.

Move the Satellite Dish slightly left or right, up and down, watching the **GREEN** Signal Quality indicators to achieve maximum Signal Quality.



GREEN lights represent Signal Quality.

RED lights represent Signal Level.

If you have signal Strength and Quality you have found the correct Satellite.

The instrument **BEEP** becomes faster and more **GREEN** Quality lights glow as the signal improves.

Perfect signal sounds a long continuous **BEEP**.

If you have signal Strength only, you may have found the wrong Satellite and you will need to double check your **Coarse Alignment Settings**.

Tech Tip: If you start with a slightly higher elevation, as you pan the Satellite Dish side to side, slightly lower the Satellite Dish after each pass in 1 Degree increments, you are sure to **LOCK** the correct Satellite.

Digital Satellite Signal Quality Finder

Set Up Instructions

SATELLITE DISH ALIGNMENT SETTINGS

FINAL ADJUST

12. Make small adjustments to LNB Skew or Rotation, again watching the **GREEN** Signal Quality indicators for the maximum available value.

Note: stand to the side of the front of the Satellite Dish when optimizing LNB Skew, so your body doesn't block the signal.

13. Tighten the elevation nuts.

14. Tighten the azimuth nuts in an equal pattern.

Monitor green Signal Quality lights while tightening nuts as tightening can move it slightly and detune.

Tech Tip: on the Signal Quality indicator you will notice...

LOW indicates Satellite found but not enough Signal Quality for reliable pictures.

OK indicates Satellite found and stable pictures should result. Pixelization may occur with rain signal fade.

MAX indicates Satellite found and a stable picture with margin above rain fade.

15. Disconnect the SQ722 and reconnect coax cable directly between your Satellite Dish and Receiver.

As SQ722 is a pre-programmed tool, signal does **not** fully pass through.

16. All that is left to do is sit back and enjoy your Satellite reception!

SATELLITE DISH ALIGNMENT COMPLETE



LABGEAR SQ722

Digital Satellite Signal Quality Finder



LABGEAR ^{DVB-S2} **SQ722**

