



## Contents

### **1. Before you start**

What you will need before configuring the modem

### **2. Connecting to the modem**

How to set up your connection to the modem

### **3. Loading the option file**

How to load the required configuration file

### **4. Acquiring the satellite signal**

What to take into consideration when pointing the dish

### **5. Activating the modem**

How to start the activation process

# 1. Before you start

- a) Please ensure that you have submitted the online activation form at **<http://www.bentleywalker.com/support>**
- b) Once this is done, you will receive the required files to configure you modem; this will include the **option file** (R12345.opt) and your **IP details**.
- c) You will also need the corresponding version of iSite:

**Evolution W2A** (cband) : iSite 10.0.1.0

**Evolution W3A/W6 S2** : iSite 10.0.0.3

**Evolution AM22**: iSite 9.0.0.7

**Infiniti Sesat2/W3A/W6 S1** : iSite 7.1.1

It is **very important** that the correct version is used depending on what satellite the modem is on; if you are unsure which version to use, please contact support

The above software can be downloaded from

<http://www.bentley-walker.com/support/customerarea>

Username: **visitor@bentleywalker.com**

Password: **satellite**

# 2. Connecting to the modem

- a) Connect an **RJ45 cable** from the LAN port on the modem to a hub or switch (the interface runs at 100mbps/full duplex) then to a PC

If connecting straight from the modem to a PC, use a **crossover cable**.

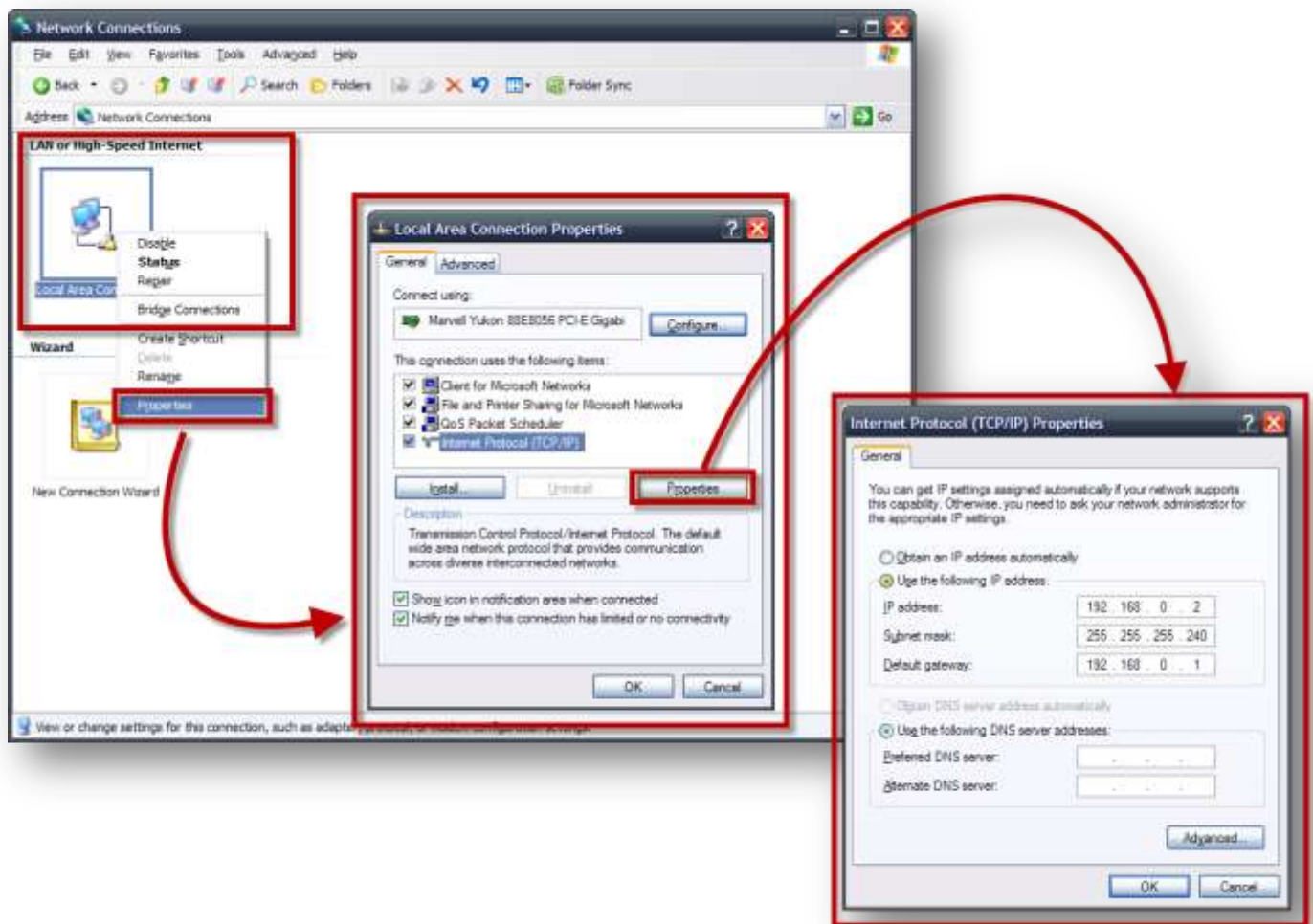
b) Set up the PC with the following **default** IP addresses

**IP Address:** 192.168.0.2

**Subnet Mask:** 255.255.255.240

**Default gateway:** 192.168.0.1

To do this in Windows XP go to **Start > Control Panel > Network Connections:**



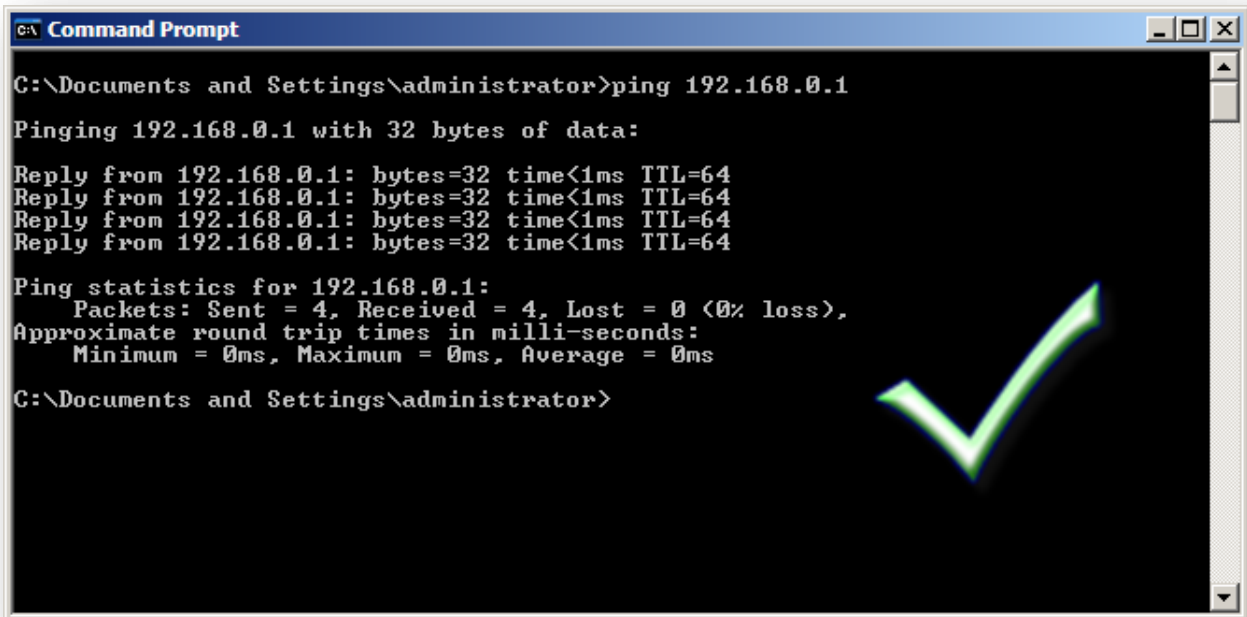
If you are having issues doing this with windows 7, follow the step by step guide below:

<http://windows.microsoft.com/en-US/windows7/Change-TCP-IP-settings>

c) To confirm that the PC can now communicate with the modem, open a command prompt (Start > run/search > type "**cmd**" and hit enter)

Type “**ping 192.168.0.1**”

If everything is set up correctly, results should be as below:

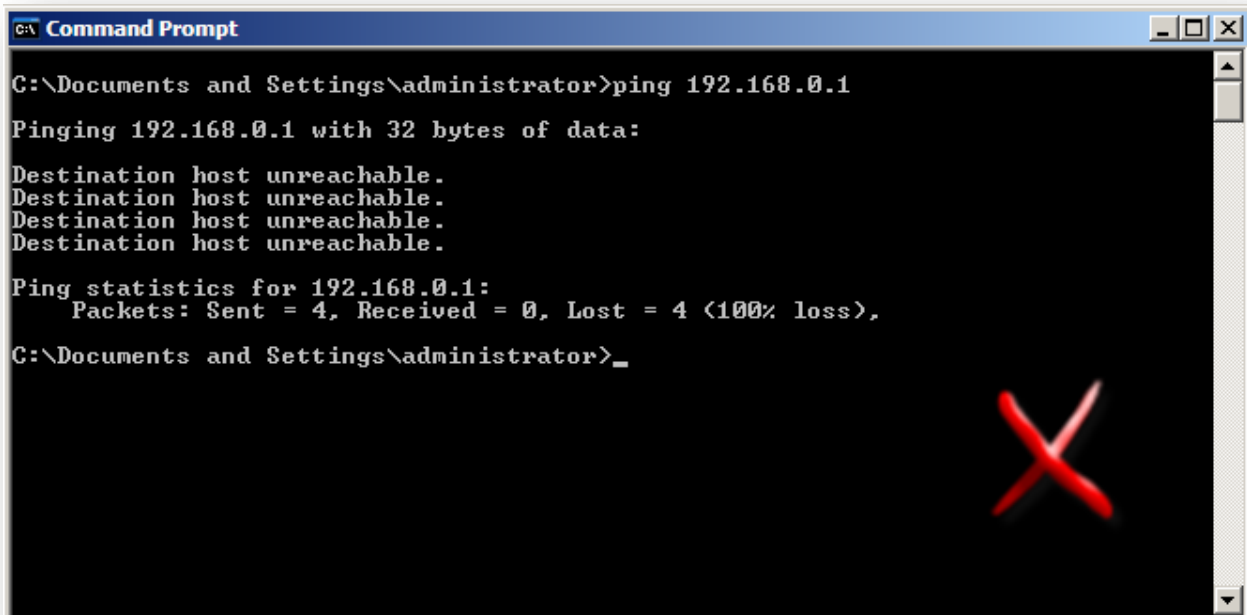


```
C:\Documents and Settings\administrator>ping 192.168.0.1
Pinging 192.168.0.1 with 32 bytes of data:
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\administrator>
```

If results are “Request timed out” or “Destination host unreachable” or “Hardware Error”, cables and settings need to be rechecked



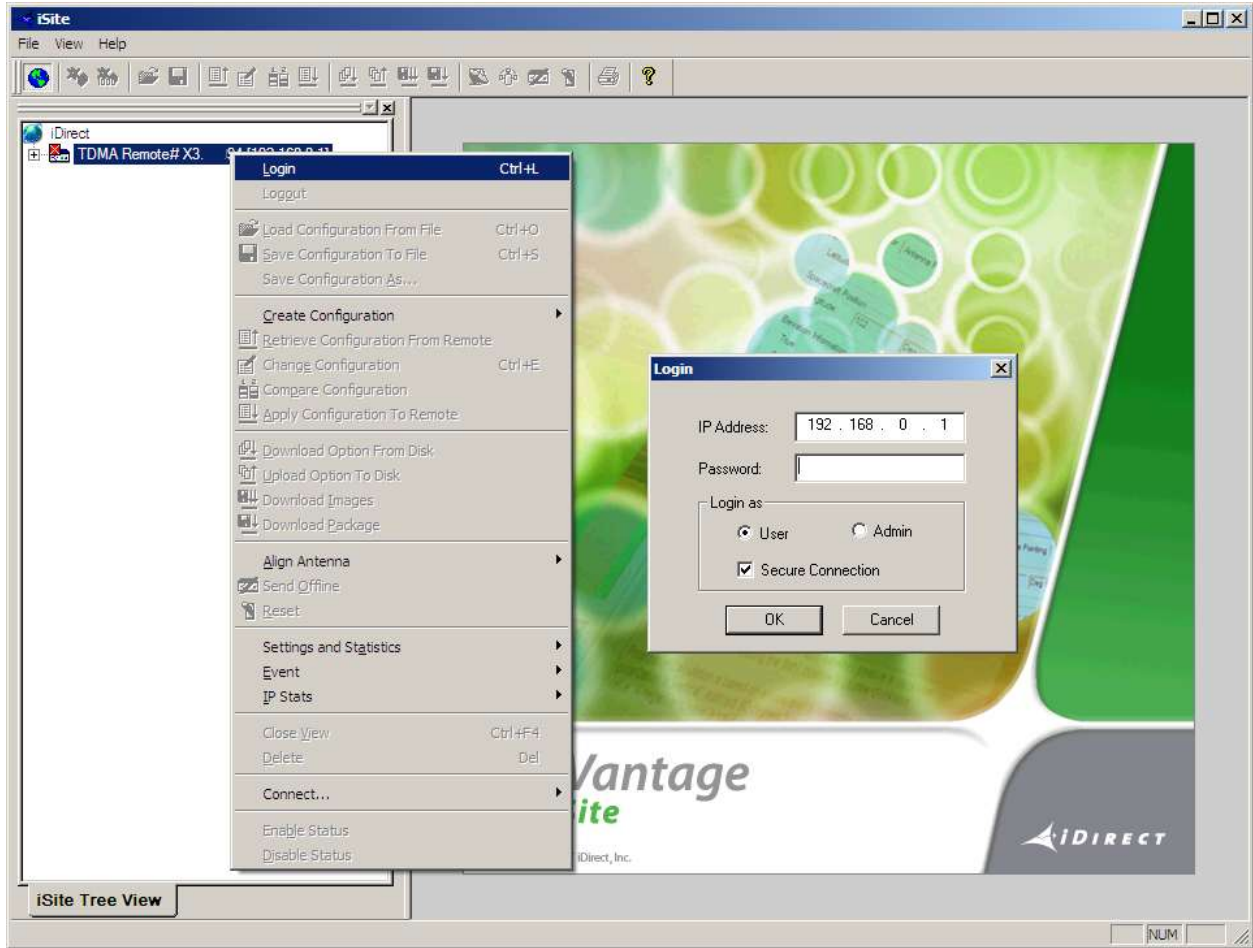
```
C:\Documents and Settings\administrator>ping 192.168.0.1
Pinging 192.168.0.1 with 32 bytes of data:
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.
Destination host unreachable.

Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

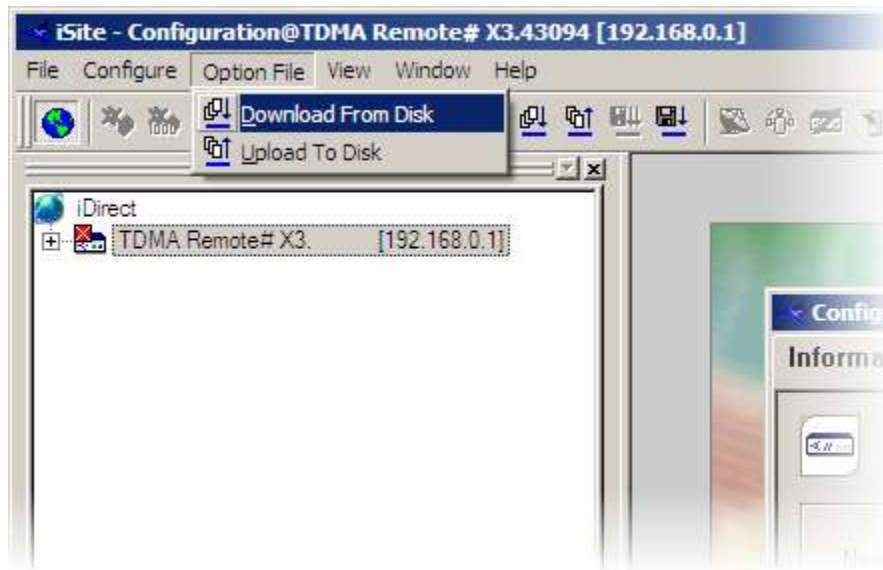
C:\Documents and Settings\administrator>_
```

### 3. Loading the option file

- a) Log in to iSite by clicking on the “TDMA Remote” and clicking “Login”. The default password is: **iDirect**



- b) Once logged in, click on “Option file” in the top menu, then “Download from disk”



- c) Browse to where the option file is saved and open. It should only take a few seconds to load and then to modem will reboot

**d) You will now need to change your computers IP settings to reflect the update. Follow Step 2 again using the IP addresses that were supplied with the option file**

- e) Also, the password for iSite and telnet access will now have **changed** from the default “iDirect”; depending on what satellite the modem is configured for, it will be:

- W3A/W6 S2: **bentleys2**
- AM22: **eutelsat2008**
- SeSat2/W6 S1: **eutelsat**
- W3A S1: **london12**

## 4. Acquiring the satellite signal

If you are aligning the dish yourself, you will need to do the following:

- a) Calculate your estimated dish pointing angles:

Visit <http://www.satsig.net/ssazelm.htm>

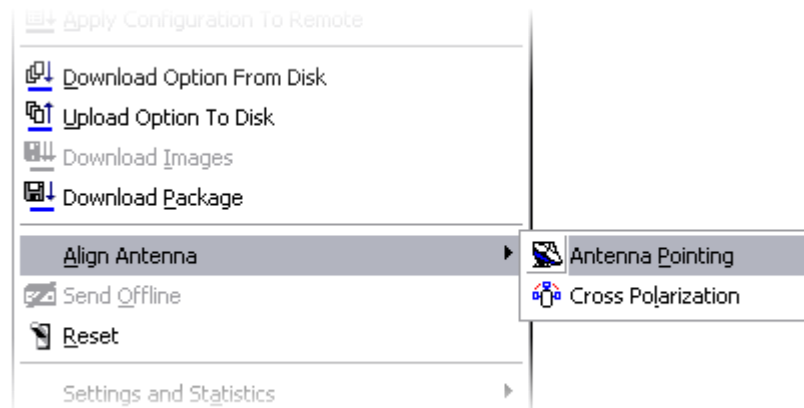
Input the **satellite orbit**: W6=21; W3A=7; AM22=53; W2A=10

Input your **latitude** and **longitude** and click calculate

This will return **azimuth** (magnetic) which is the left and right movement of the dish; **elevation**, the up and down movement of the dish; and the **polarisation**, which is the rotation angle of the feed assembly.

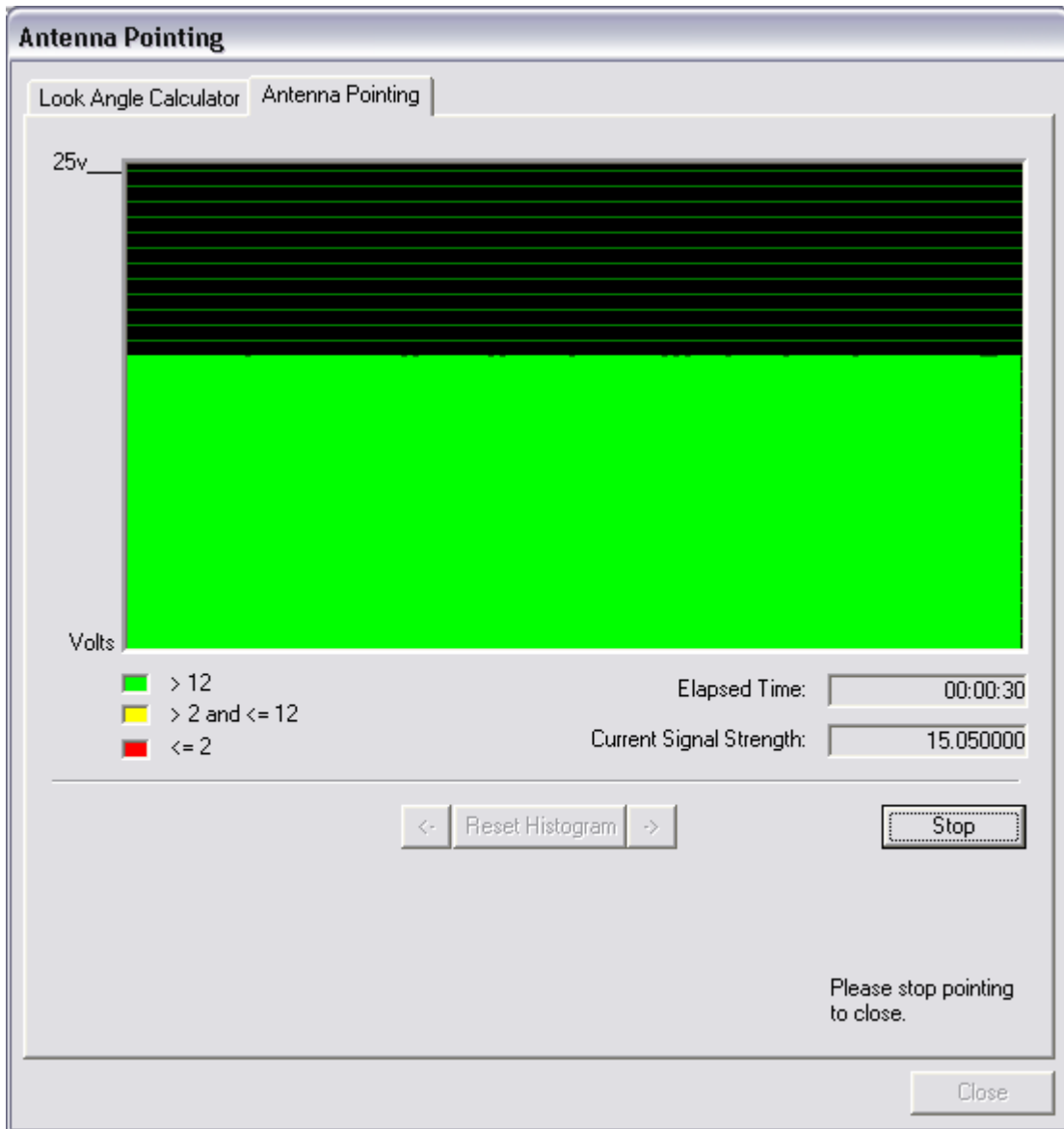
Use these value to point the dish in the right direction

- b) We recommend using a **Satellite Meter** such as a MaxPeak or Horizon to then find the satellite signal
- c) Once you have a lock on the signal, open up the “antenna pointing tool” in iSite by right clicking on the remote and selecting “Align Antenna” > “Antenna Pointing”

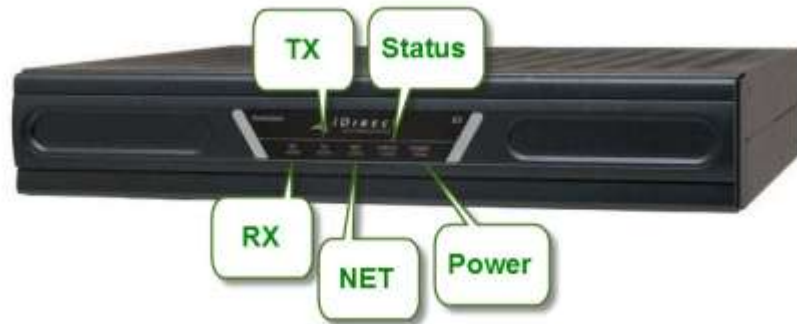


Click on the “Antenna Pointing” tab at the top then click “Start”

After a short period, the graph will start showing data; use this to adjust the dish until you are seeing around **16v**



## 6. Activating the modem



- a) You will need to check if transmit is **enabled**.

Open a command prompt and type “**telnet**” space, then the modems IP address

The username will be **admin** and password will be either **bentleys2** (W3A/W6 S2), **eutelsat2008** (AM22), **eutelsat** (SeSat2/W6 S1) or **london12** (W3A S1)

Once logged in, type the command: **tx iflDC** (note that “DC” must be uppercase)

If this is set to **off**, retype the command: **tx iflDC on**

- b) If everything is setup correctly, the RX and Power light on the front of the modem will be solid green**

- c) You will then need to contact Technical Support to request activation

**Should you encounter any difficulties setting up your modem, please contact Bentley Walker technical support:**

**[support@bentleywalker.com](mailto:support@bentleywalker.com)**

**+44 2392 311 118**

**or raise a support ticket if you have the facility to do so.**