



# SATALOGUE

The Nation's Favourite Satellite Supplier

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## DISCLAIMER

The following information is offered by Satalogue in good faith, Use it at your own risk. By your use of the information supplied within this e book Satalogue will accept no legal responsibility for injury etc.

If you want to install a dish yourself, then the following notes will assist you and you can save money on installation.

The following information assumes that you have purchased one of our professional satellite installation kits (Pictured Right).

To buy our professional installation kit see page 7 of this e-book



### Basic Equipment you will need.

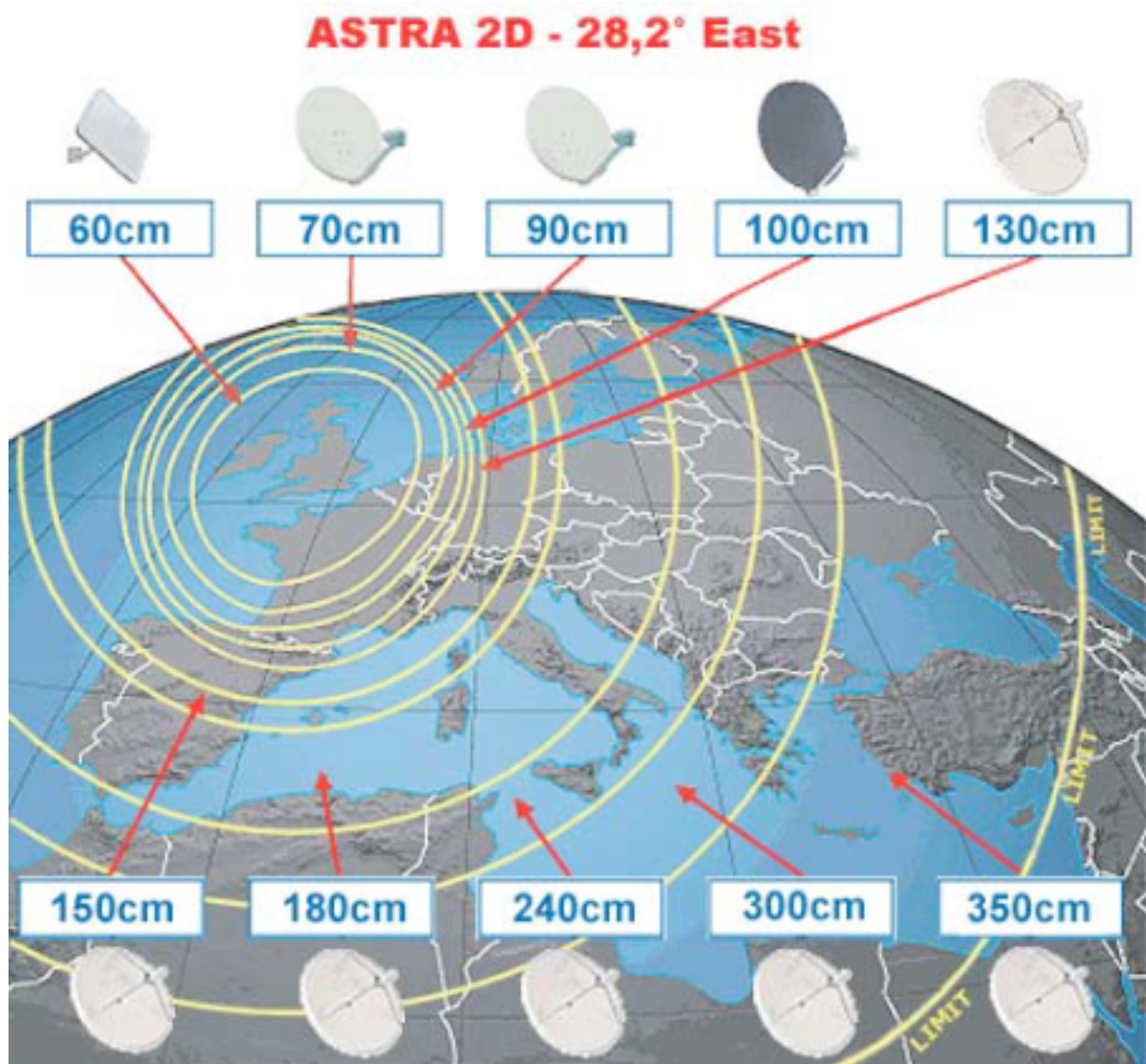
- 1) Electric Hammer Drill
- 2) A 10mm Carbide Tip Drill Bit (100mm Long)
- 3) A 10mm Carbide Tip Drill Bit (380mm Long)
- 4) A Sharp Knife (Stanley Knife)
- 5) Wire Cutters
- 6) Spanners/Socket Set
- 7) Screwdriver
- 8) Hammer
- 9) Dish Alignment Meter. <http://www.satalogue.com/section10/page1.htm>
- 10) Spirit Level

### Remember!

- \* The dish must have no obstructions between it and the satellite (Trees Etc)
- \* The dish does not need to be high up off the ground
- \* The dish does not need to be near the satellite receiver

## CHOOSE THE CORRECT DISH SIZE

To receive Astra 2D (BBC Channels Etc) Select the dish size from the map below.



It is important to remember that the elliptical sky mini dishes are usually under sized for UK locations. If your picture 'Freezes' Or Locks Up your dish could be too small for your location. **The general rule is as follows:**

**For Sky Zone 1 (South of Manchester) You need a 40cm Dish.**

**For Sky Zone 2 (North of Manchester) You need a 60cm Dish.**

If you have a Sky digital system you may need a bigger dish. Example: While a 40cm dish **just** south of Manchester will just about do the job, you are far less likely to have "rain fade" problems if you buy our 60cm solid dish with a 0.2db LNB.

Buy one here: <http://www.satatalogue.com/section7/60dish.htm>

## ASSEMBLING THE DISH

Be very careful assembling the offset dish, ensure that you don't bend the feed arm, assemble it correctly as per the instructions supplied.

Ensure that ALL Nuts and Bolts are fully tightened.



## FITTING THE WALL MOUNT

It is VERY important to ensure the mount which you are using IE: Pole, Patio, Wall Mount or other method is perfectly vertical.



Your finished mount should look like our picture Above.

Choose a fine day. DO NOT attempt to install your dish when it is raining.

When using an Electric Drill For your own safety use an RCB (Residual Current Breaker) to protect you from electric shock.

Drill into the Brickwork, NEVER into the Mortar. Make sure that the hole is deep enough to take the length of the bolt.

DO NOT drill the holes at an angle as doing so may shear the bolts when you come to fully tighten them.

If you are working at a height ensure that you have secured the ladder and there is someone available to 'Foot' the ladder at ALL times. If your ladder should slip its a very long way down, it can also be very painful too.

Now that you have the wall mount in place you need to fit the dish to the mount. tighten the bolts so you can move the dish with ease.

As the dish cable carries a maximum Voltage of 18 Volts to supply power to the LNB It is VERY important to prevent damage to the receiver that you DO NOT connect the satellite receiver to the mains supply until all of the 'F' connectors are in place.

## ALIGNING THE DISH

You might be able to get an idea of the direction and rough elevation of the dish by looking at a neighbours property. If not goto <http://www.dishpointer.com> and follow the instructions on the website. If you are in the UK and the satellite you require is Astra at 28.2 East As a general rule of thumb you will determine the compass bearing of 30 degrees east of South for the general direction of the dish.

Most satellite dishes available are of the offset type (With the LNB at the bottom of the dish), Offset Dishes don't appear to look directly at the satellite and the elevation markings are often marked on the mounting plate at the back. these markings are only accurate if the wall mount is vertical.

Take your satellite dish cable and fit an F connector to each end.  
See how to fit an F connector properly at.....

<http://www.satatalogue.com/tech/page10.htm>

It is VERY important that you do not create a short circuit on the dish cable so PLEASE click the link above.

Connect the lead that came with the alignment meter to the LNB on the dish,  
Connect the dish cable you have just made to the satellite receiver.  
Now connect both the cables to the correct meter sockets.

Now plug your satellite receiver into the mains supply and turn it on.

You need to be able to measure the strength of the signal being received and for this you will need a reasonable quality meter (Shown Right)

We don't recommend using the receivers Signal Bars since often the signal meters in receivers are not in real time and tend to be updated every few seconds.

We offer Dish Alignment Meters for sale on our website.

See page 7 of this e-book



If you have not purchased our Professional Satellite Installation Kit make sure you use the correct type of cable - a high quality satellite coaxial and not regular cheap TV antenna cable. The meter display will show the overall signal strength received.



Now you must search for the satellite. There are many Satellites in space so You **MUST** be very patient at this point. You may not find the correct Satellite the First time.

Start from your guess position and move the dish in tiny increments up and down, then left and right, your aim is to get the best signal strength and quality.

Once you have found a satellite, scan the channels with your receiver if you get no channels or not the ones which you expect then you have probably got the wrong satellite and you need to start the procedure from the beginning.

If we supplied your satellite receiver or satellite system it will come Pre-Tuned to Astra 28.2 (Sky Satellite).

If this is the satellite you require there is no need to perform a scan.

If you have the correct satellite then proceed to **FOUND IT:** below. If the satellite channels you have received are NOT the ones you expected then you will have to move your dish again, Very slowly remember. Don't forget as you move the dish you may need to adjust the elevation (Up/Down).

**FOUND IT:** When you have found the correct satellite you can start tweaking the dish for the best signal. Turn the Db Gain anti clockwise till the meter needle shows the middle point.

Move the dish very slightly to the Left & Right. When you find the best signal tighten the bolts. Now you need to adjust the dish elevation. Move the dish very slightly Up & Down. When you find the best signal tighten the dish elevation bolts.

Finally, once you have optimised the dish position you have to set the skew of the LNB. You will need to rotate the LNB to find the strongest signal. In fringe areas this can become extremely critical.



You should now be finished. Ensure you've disconnected the alignment meter. (Remember to unplug the receiver from the mains supply first).

## INSTALLING THE DISH CABLE

Now you can proceed to install the satellite dish cable. Don't use RG6 cable. We recommend CT100 because it is not so easy to kink it accidentally & it is more durable.

Do NOT be tempted to rush this very important part of the installation. For example: If your dish is at the front of your house and your satellite receiver is at the back do NOT under any circumstances throw the cable over the roof. In time the cable will be blown by wind against the roof top and the cable will fray. The result of this happening can be very costly. Water will enter the cable and find its way into either the LNB on the dish and/or the satellite receiver. Neither is covered by any guarantee.

It is best to have a continuous cable run without any joints in it. Unfortunately, this is not always possible so you can join the cables together but please do it properly by using Two F connectors and a Back to Back joint. (As Shown Below)



If your cable joint is outside You MUST waterproof it using self amalgamating tape.

Always use the correct cable clips and avoid any kinks or tight bends in your cable.

Where the cable enters your home always use a 'Drip Loop' method. The aim of this is to have the cable positioned in such a way that it looks like the letter

**J**

The water will then run down the outside of the cable and when it reaches the middle of the curve it will drip down to the ground and not run into your House.

Now you MUST waterproof the LNB connection using self amalgamating tape. Water will find its way anywhere, If you let it.

Remember that your equipment cost a lot of money. Protect your investment.

## WHAT DO I DO WITH THE DISH METER NOW?

You might think it wasteful to spend money on a meter that you'll use only once but remember that an occasional gale might blow your dish off line; indeed it might also blow your neighbours' dishes off line, so you could earn yourself a few fivers by realigning them!.

You could even offer a service by helping your friends to install their dishes. Or you could recover your money by selling the meter on eBay.

## RELATED READING

Technical Advice: <http://www.satalogue.com/tech/index.htm>

Dish Alignment Meter: <http://www.satalogue.com/section10/page1.htm>

Pro Installation Kit: <http://www.satalogue.com/section10/page4.htm>

Wireless Video Sender: <http://www.satalogue.com/section10/page3.htm>

Satellite Receivers: <http://www.satalogue.com/section1/index.htm>

Satellite Systems: <http://www.satalogue.com/section2/index.htm>

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**This e-book was last revised on November 7th 2007**