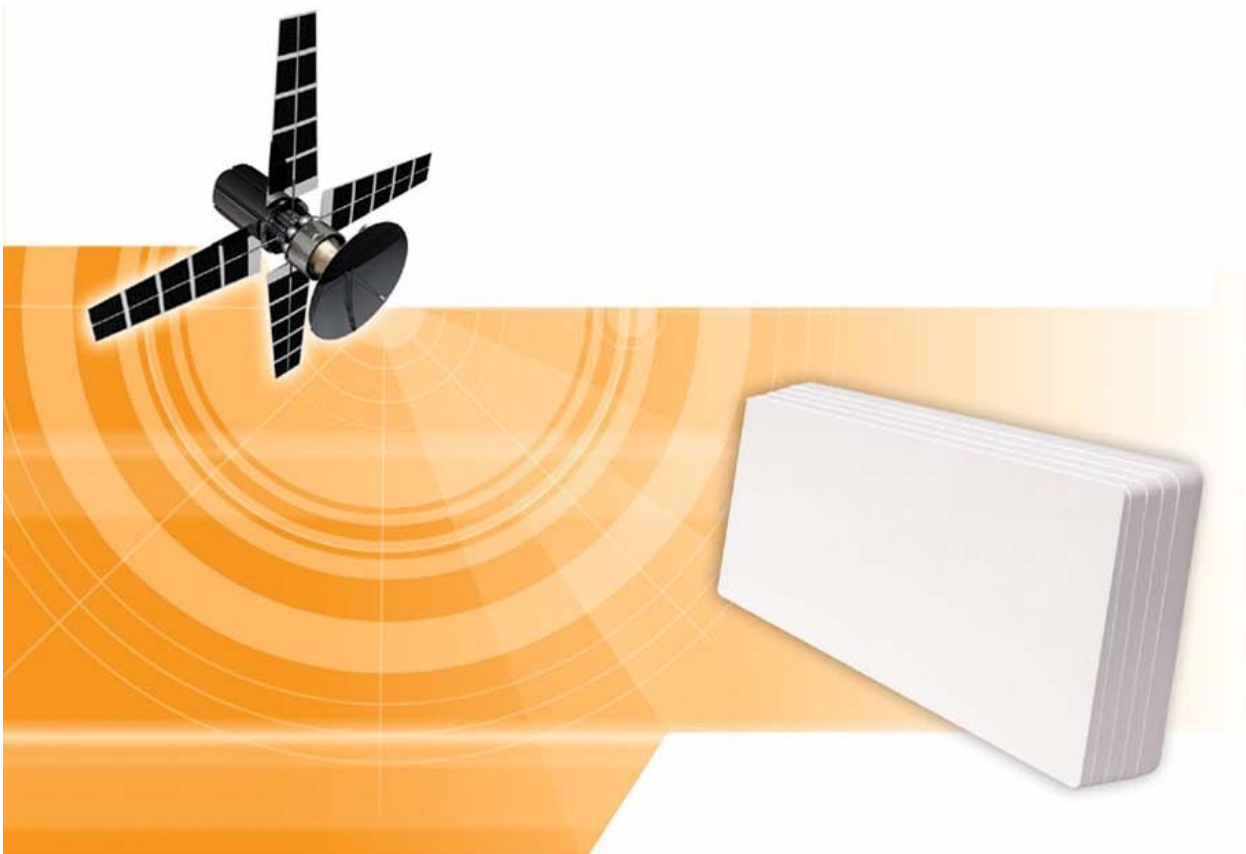


SELSAT

User's Manual

SELSAT-H10D



Flat Satellite Antenna with Dual Linear Polarisation

www.self-sat.com

idobit

What is SELFSAT-H10D?

SELSAT-H10D is a Horn Array Type Satellite Antenna with Dual Linear Polarization, it can receive signal from major Satellites and would replace a normal former Parabolic Dish.

Small, discreet and easy to use, it can be installed in a few minutes and used as a portable antenna for all satellite receptions.

SELSAT-H10D can be used for both free to Air and encrypted (requiring a subscription with an operator) channel reception; it can also receive all High Definition channels with a superior image quality.

For the use and installation, please read the following instructions and installation materials carefully.

Safety Instructions

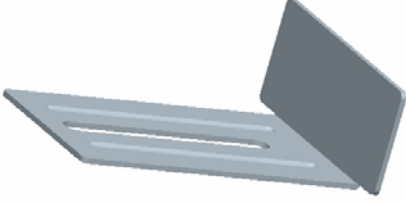
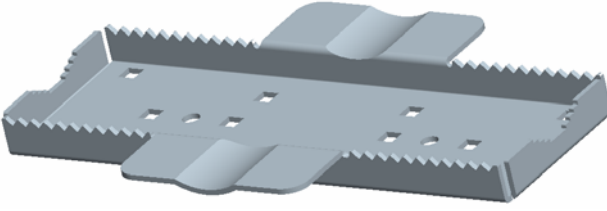
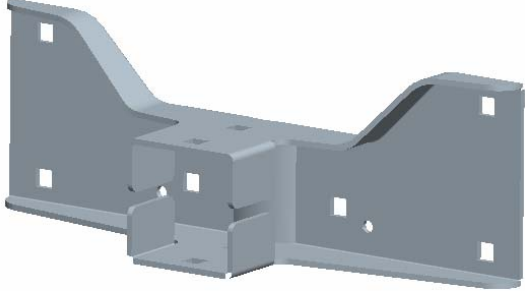





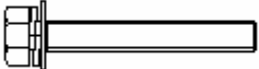
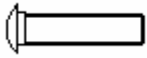

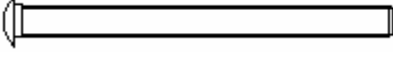


- Before using this product please read this manual carefully and follow exactly all installation, mounting & orientation instructions.
- All the instructions should be followed in order to avoid any technical problems.
- Any electric or magnetic field close to the SELFSAT-H10D may cause a bad reception or even cut off the signal completely.
- Do not drill the plastic cover of the antenna, which seals the antenna from moisture.
- Handle the antenna with care as any impact will cause damage to the electronics.
- Do not open the cover, any attempt to repair by a non-qualified person can be dangerous and void the warranty.
- Any obstacle (buildings, trees, etc....) will block the reception of the signal from the satellite to the antenna.
- Do not paint or add any substance on the antenna cover, this will block the reception of the signal from the satellite.
- The cable between the antenna and the Satellite receiver should not exceed 30m as it will decrease the quality of the signal.
- The use non- isolated jacks will result in a loss of the signal level.
- For an optimum signal reception please use the Attenuation Thin Pad for the first installation. (for more details, please refer to step 6)
- Do not forget to adjust the antenna and the bracket to the cross-polarity (skew angle please refer to step 5).
- Tighten all the screws of the antenna once you have finished the adjustments.
- This product contains one universal LNB, it is forbidden to add, change or modify the LNB.
- For more precise details on the above points or for any information, please ask your retailer or customer service.
- .

WARNING!!!

Antennas improperly installed or installed to an inadequate structure are very susceptible to wind damage. This damage can be very serious or even life threatening. The owner and installer assumes full responsibility that the installation is structurally sound to support all loads (weight, wind & ice) and properly sealed against leaks. The manufacturer will not accept liability for any damage caused by a satellite system due to the many unknown variable applications.

Box Content

No	Symbol	Part name	Image	Quantity
1	A1	Antenna Body		1
2	P1	Attenuation PAD		1
3	B1	Skew Bracket		1
4	B2	Angle Bracket		1
5	B3	Main Support		1
6	B4	Window Bracket A		1

7	B5	Window Bracket B		1
8	B6	Fix Bracket A		1
9	B7	Fix Bracket B		1
10	B8	Spanner		1
11	C1	Compass		1
12	S1	Screw M4x10 SEMS2		2
13	S2	Hex Bolt M6x12 SEMS2		2
14	S3	Hex Bolt M6x20 SEMS2		1
15	S4	Hex Bolt M6x45 SEMS2		1
16	S5	Round Head Square Neck Bolt M6x30		1
17	S6	Round Head Square Neck Bolt M6x50		4
18	S7	Round Head Square Neck Bolt M6x75		4
19	N1	Flanged Nut M6		8
20	E1	Rubber		4

How to Install?

By following the instructions step by step you can proceed easily to install SELFSAT-H10D by yourself or with the help of a professional antenna installer.

Before installing your antenna, you check that SELFSAT-H10D box contains all the items listed above in the 'Box Content'. In the event of any missing parts, please contact your distributor.

Step 1: Where to Install?

In order to receive a signal from the Satellite, SELFSAT-H10D is to be installed in an open loop space (outside the house or the apartment), in the direction of the satellite towards the equator, for which, you will need a compass to exactly orient SELFSAT-H10D toward the satellite (Note; please take reference to the table of the Azimuth angles specified in the back pages of this manual)

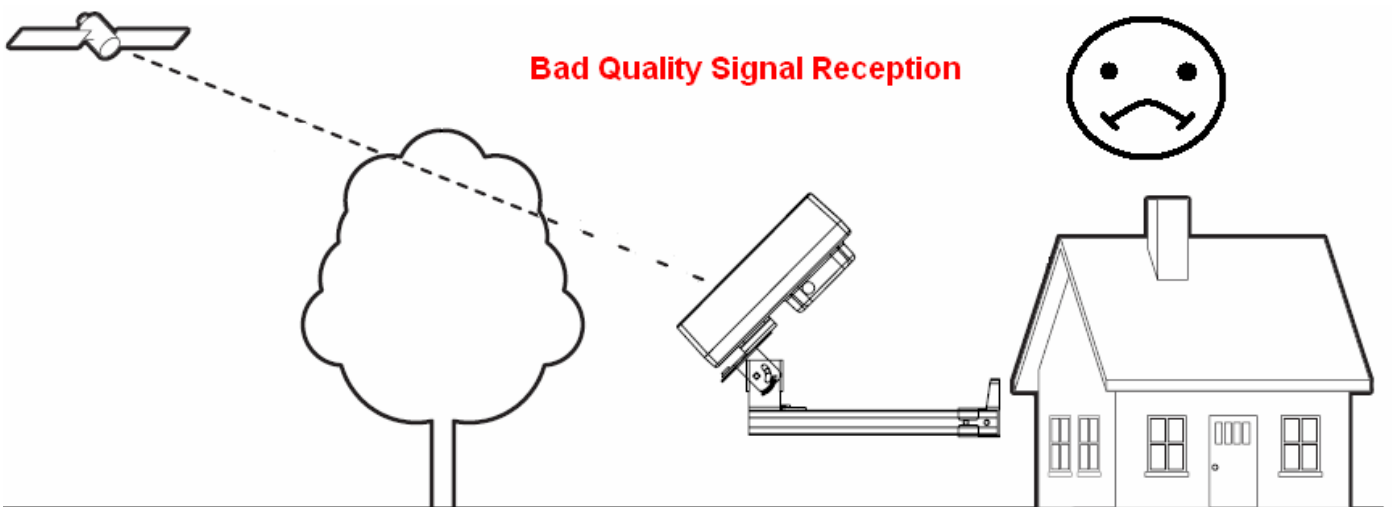


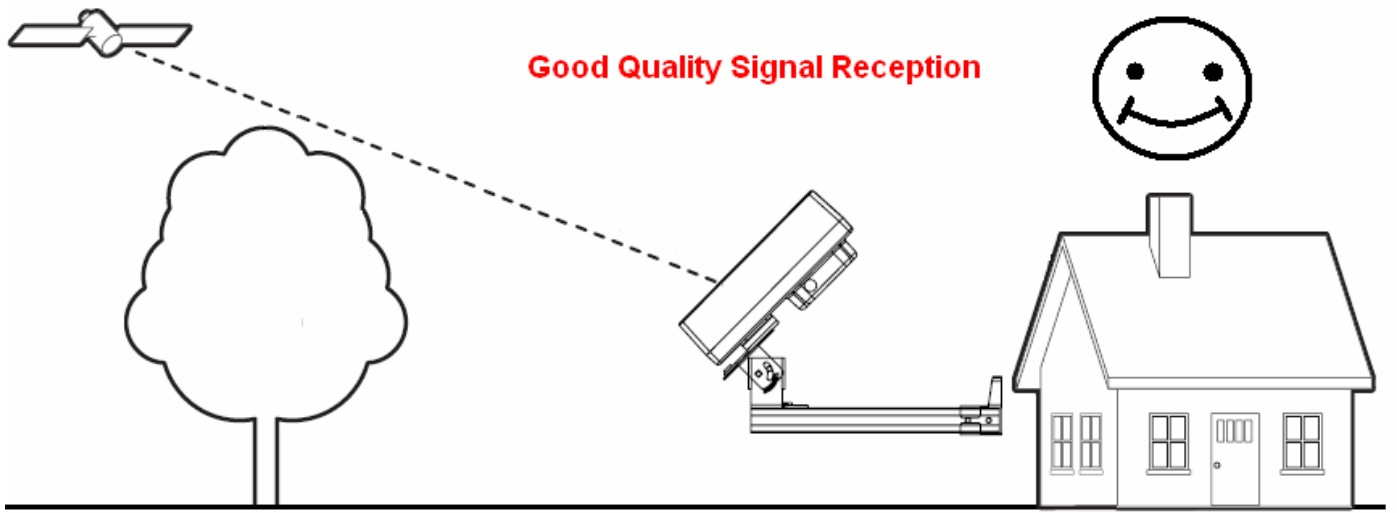
Note; To ensure an accurate compass reading, stay away from large metal objects, specifically electrical cables and then make multiple readings

Make sure that there are no obstacles in front of SELFSAT-H10D which can decrease the signal reception quality, such as buildings, or trees (you may keep in mind that trees will grow and may block the signal).

In order to be able to fix and install your antenna easily you might choose an easily accessible place without any potential danger for installation.

Think about the way you might pass your cable in a discreet way from the SELFSAT-H10D to your Set top Box. The antenna should not be too distant from your satellite receiver; a cable longer than 30 meters can decrease the quality of the signal.

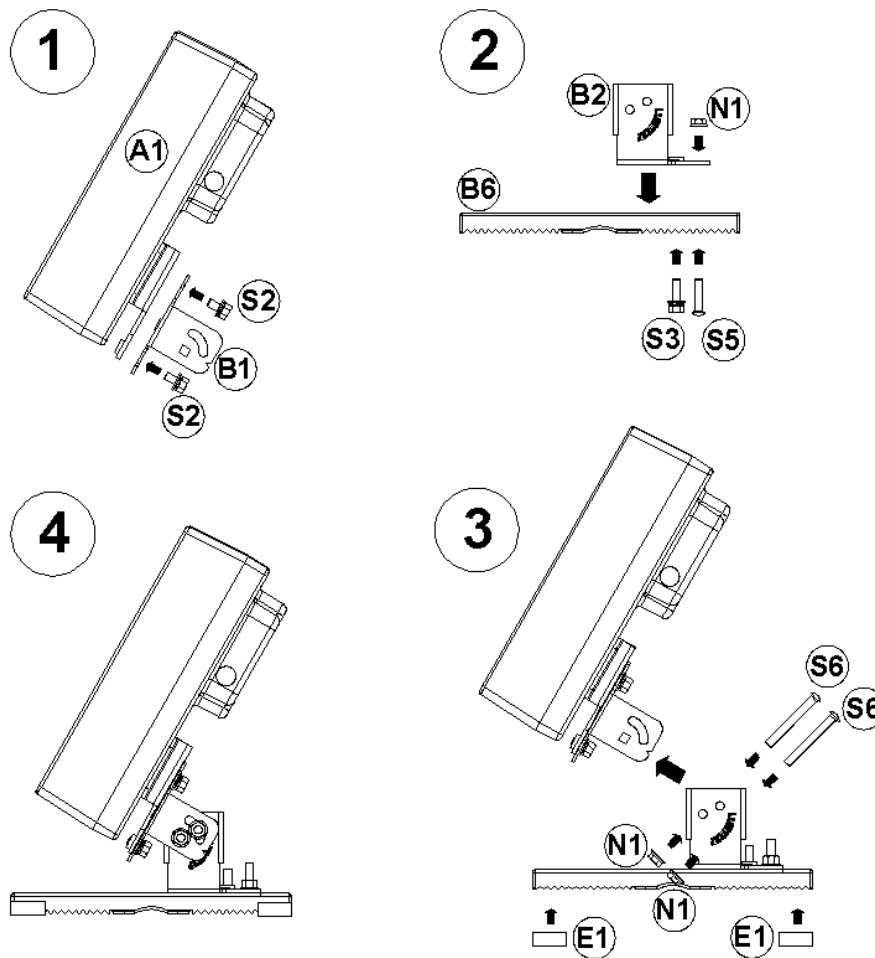




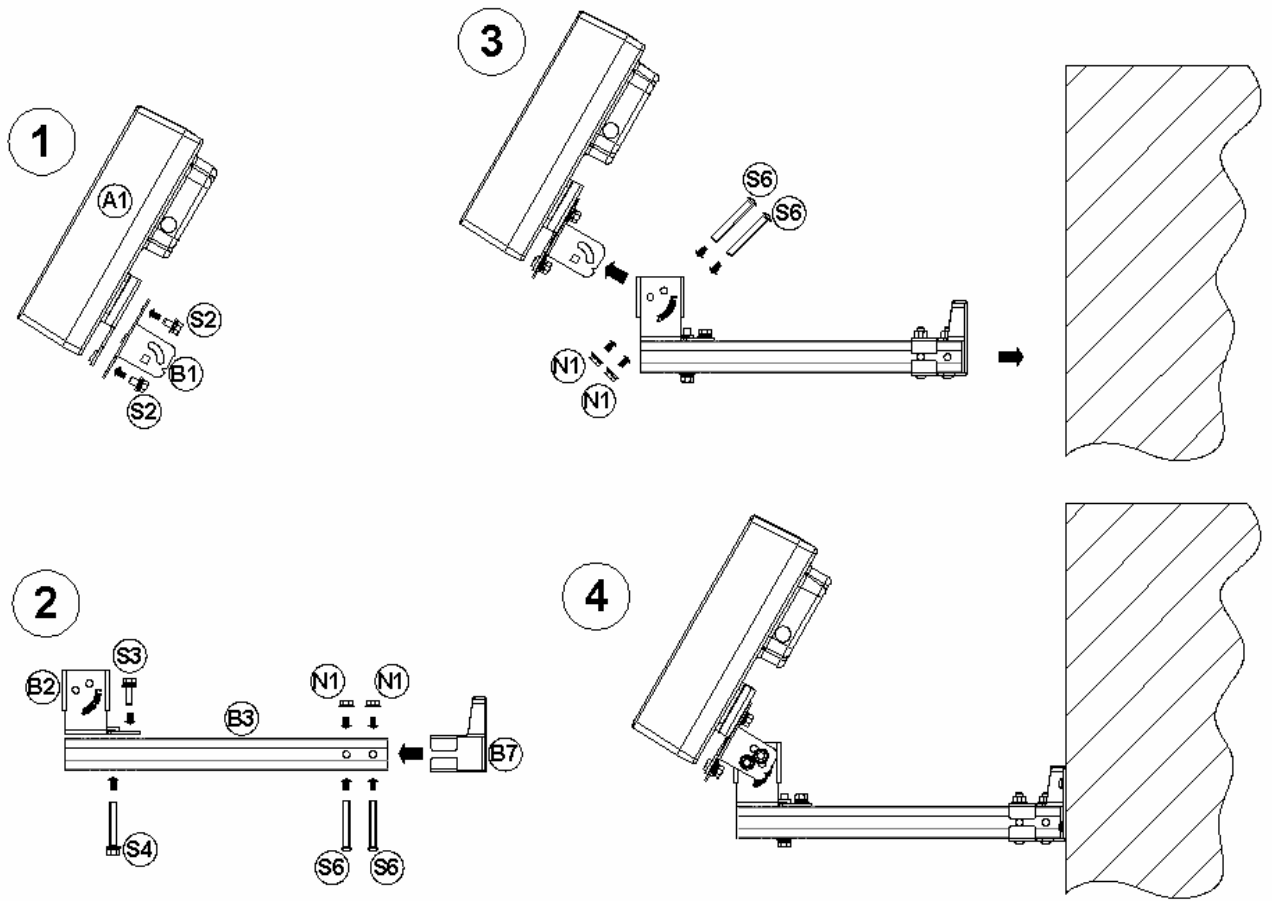
Step 2: Installation Choice

Depending on the choice of installation position for the SELFSAT-H10D, you can then decide on the mounting type, all parts are included

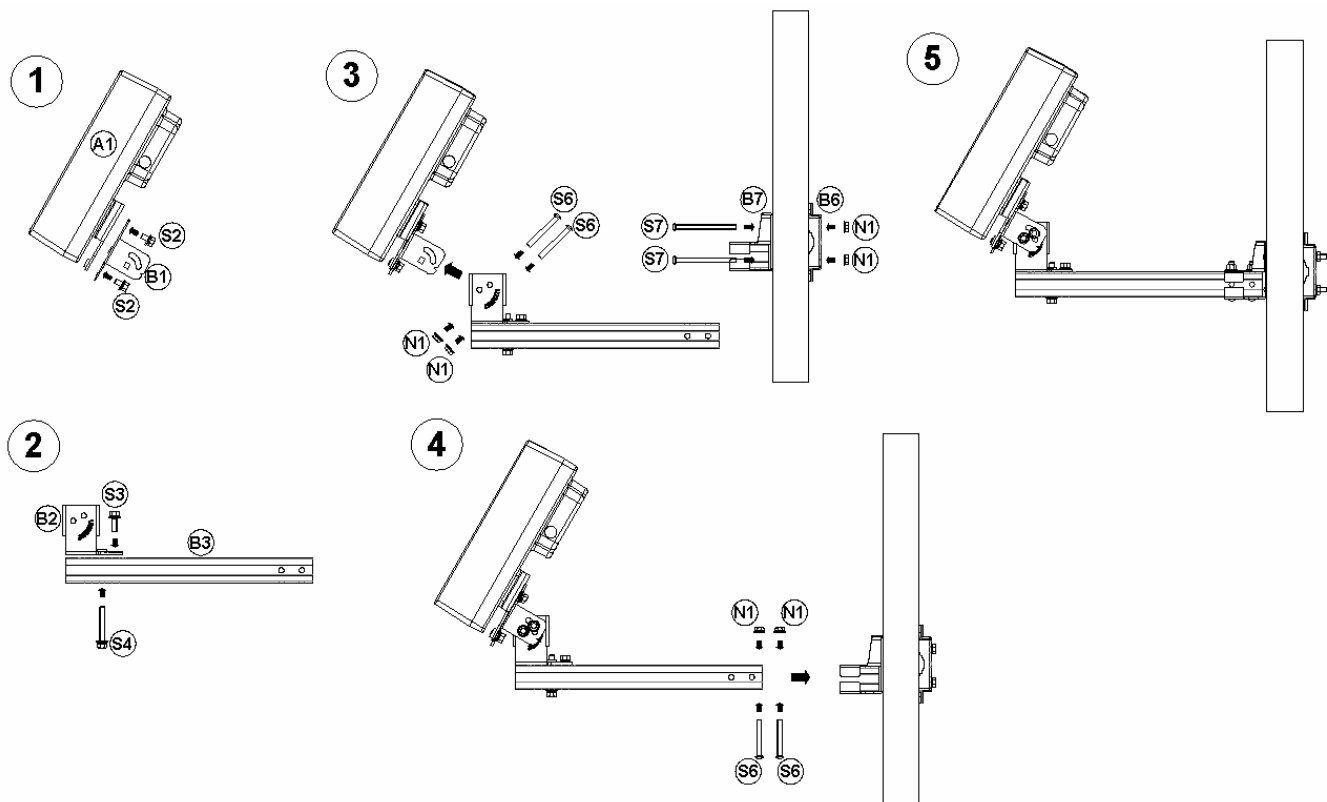
A) Table Stand type (On a Horizontal Plain)



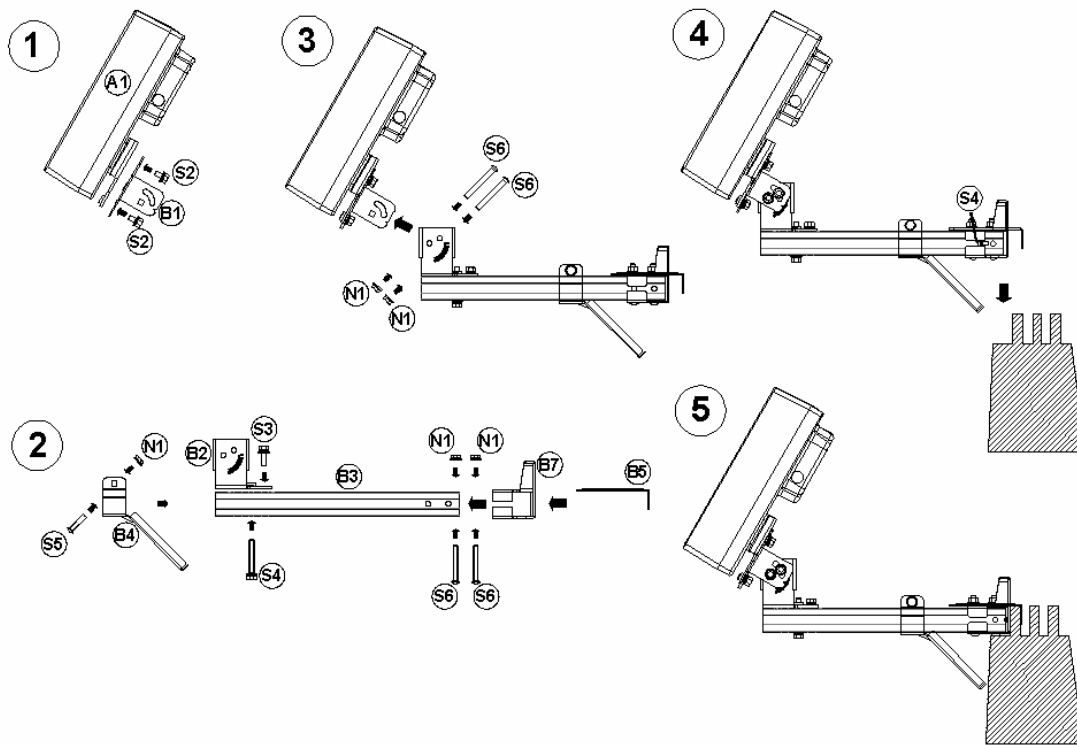
B) Wall Mounting Type



C) Clamp on Balcony Type



D) Window Type



Step 3: Connecting the Antenna and the Set top box

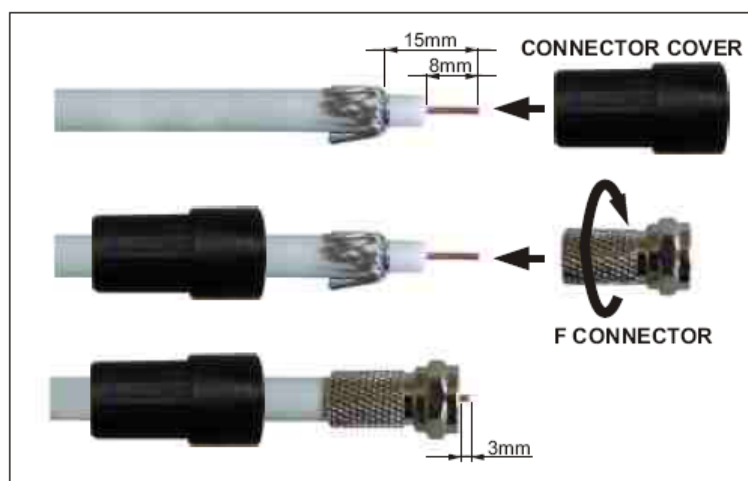
Once you have installed the antenna in an open loop space and mounted the way you want it to be the next step is to connect it all together.

In order to be able to watch your favourite satellite programs, you need to connect your satellite antenna to a receiver by a cable.

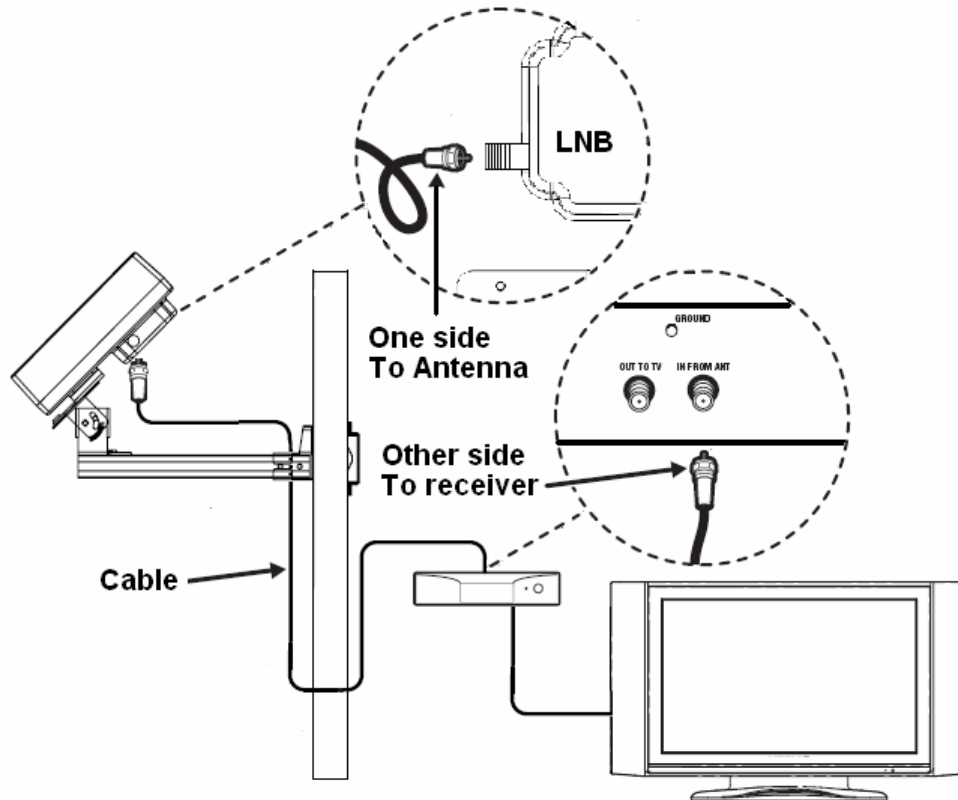
The cable between the antenna and the Satellite receiver should not exceed 30m as it will decrease the quality of the signal

The use of a long or bad quality cable and not isolated jacks can cause a loss of the signal level, it would be preferable to use an RG6 Coaxial cable (HF 17VATC or 19VATC cable), in order to minimise a signal loss.

A- How to prepare the cable?



B- How to connect the cable to the antenna and the set top box?



It is important that the coaxial cable does not become damaged or kinked during the installation procedure.

Step 4: Antenna Pointing Menu

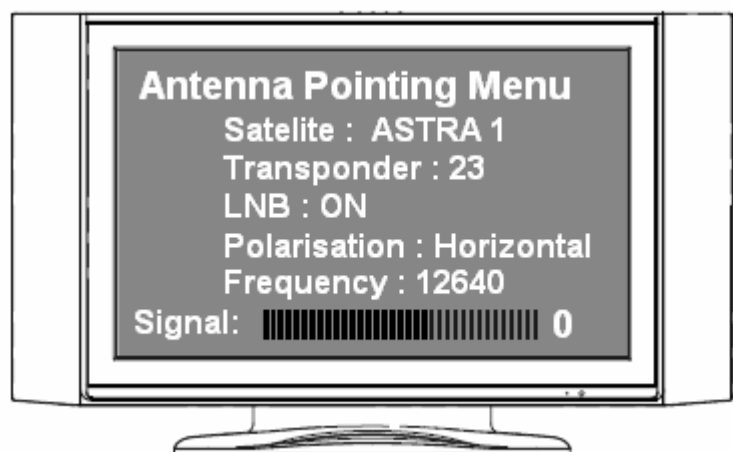
Once all connected, turn on the TV and the Satellite receiver.

Select the Antenna Pointing Menu on your set top box

This image shows the Signal level and the screen you will see on your TV.

Do not forget to choose "LNB : ON"

You will need someone to stay in front of the TV to tell you when the signal is "good" while you're outside trying to adjust the antenna the best way possible.



Step 5: Pointing and locating the Signal (first without Attenuation Thin Pad)

Once all installed and connected, you may take off the Attenuation Thin Pad from the antenna (and keep to one side for step 6) and then start adjusting your antenna in order to receive a signal. For that, you will need to move your antenna in three different ways in order to receive the maximum signal level & best reception quality.

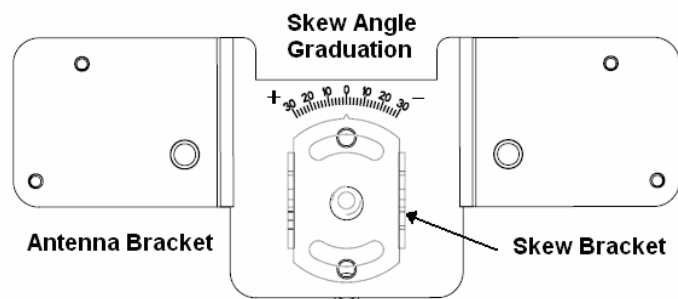
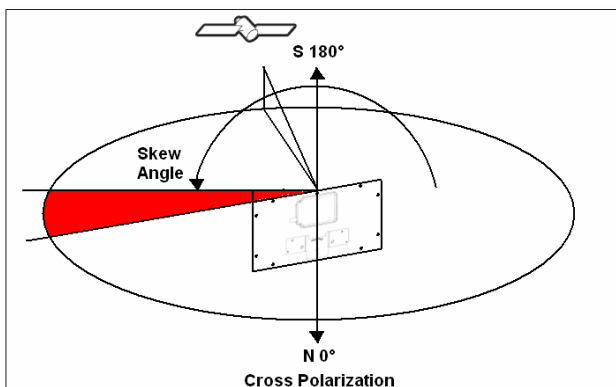
- A- Cross Polarisation Tilt: or Skew Angle is to tilt the antenna
- B- Elevation: Move your antenna vertically (Up/down)
- C- Azimuth: Turn antenna on a horizontal plain (left/right)

Whatever your choice of mount type, you will be able to adjust your antenna easily by following these instructions.

Note: To adjust the antenna with precision and to allow a good reception (even in bad weather), professional installers use a "signal meter". This indicates the level of signal strength received. Only the use of this measuring device guarantees an optimum adjustment.

A- Cross Polarisation (Skew Angle) :

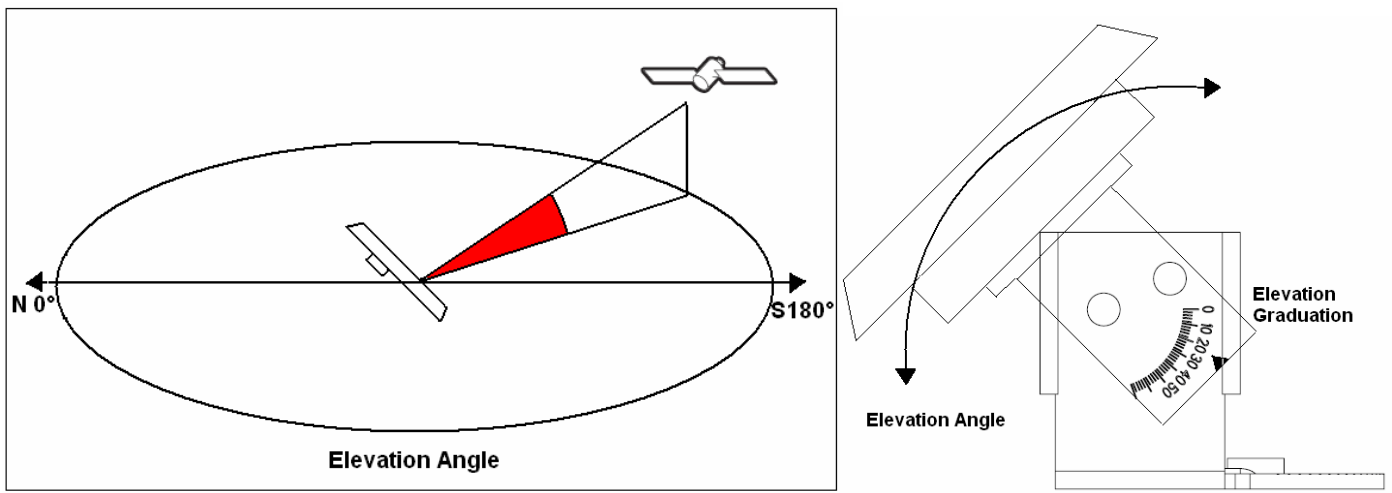
Obtain the Skew Angle of the chosen satellite, from the lists in this manual which cover many European countries & big cities), Tilt your antenna to the specified degree by looking to the degree graduation located on the back of the antenna bracket. Once achieved, tighten both screws connecting the Skew Bracket (B1) to the Antenna Body (A1).



B- Elevation Angle :

Then obtain the Elevation angle according to the area location of the chosen satellite on the lists in this manual. Then move your antenna up or down according to the angle, (you may use the graduated surface of the bracket in order to make sure that you are on the right position. Once achieved, tighten your elevation nuts on the Angle Bracket (B2), this is a preliminary adjustment which you may have to fine tune later by using the pointing menu on the TV.

You may do a fine tuning for the elevation angle by following the peak signal level on your screen later on once all three points have been followed.



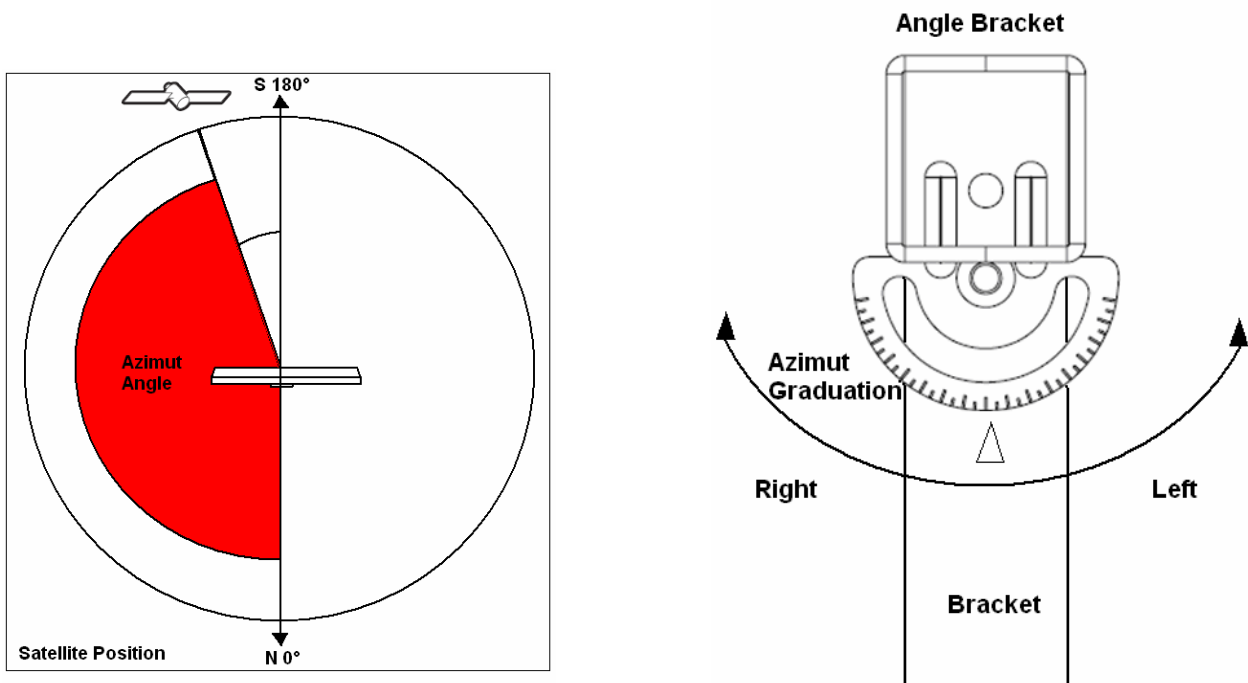
C- Azimuth :

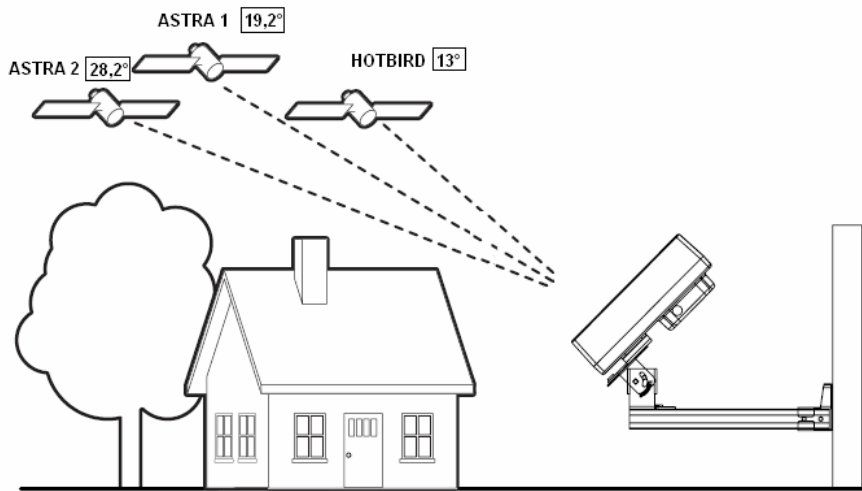
Finally obtain the area's azimuth angle of the chosen satellite, on the lists in this manual, Point the antenna in a generally southerly direction, then, by using the compass rotate to the right or the left towards south on your compass (180°).

All of the European satellites are located to the south, there will be a minor difference in the azimuth angle from one satellite to another.

Once you have selected the chosen satellite on your receiver follow the signal strength on the screen by fine tuning the azimuth and rotating the antenna very slowly "to the right" or "to the left" in order to receive the highest signal level from the satellite.

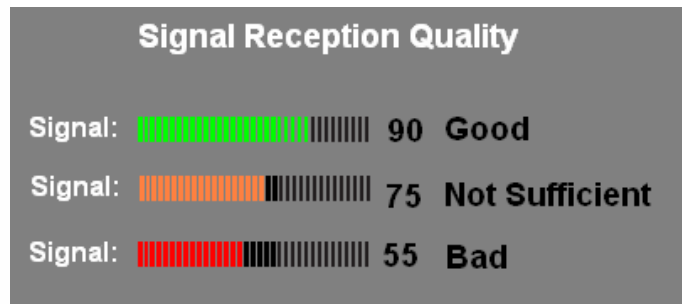
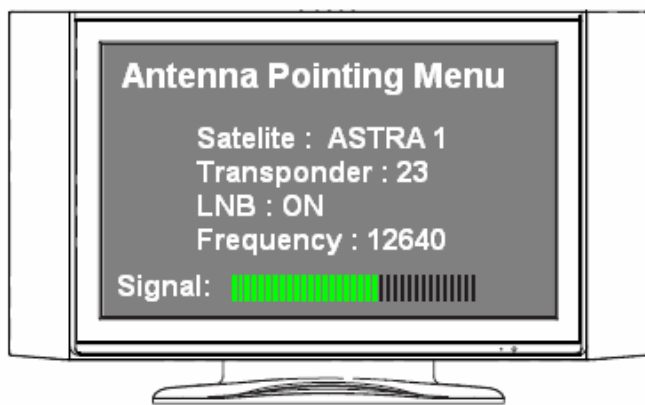
You should be able to find the satellite signal first and then the signal peak, indicated on your screen. Once you sweep through the peak-signal point on the screen, mark the position with a pencil and screw in your angle bracket to fix the antenna in this position.





The signal level and quality is indicated on the TV screen and will fluctuate and **change** colour according to the adjustment & movement of the antenna while you are pointing & finding (azimuth, elevation and Skew angle).

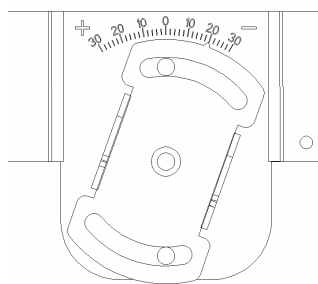
The level indicates the power of the signal and the colour is the signal reception quality from the chosen satellite.



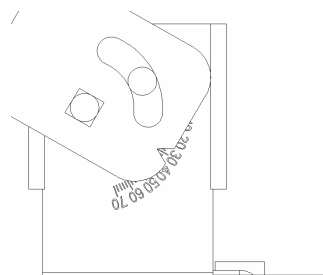
Once fine tuning is complete, and the signal is at its peak level with a good quality, you can stop adjusting the antenna.

(Example of pointing & finding the signal)

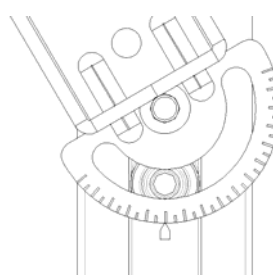
In order to watch Canal+ through ASTRA1(19.2 East) from the city 'Brest' of France, you will see Skew angle at -19.7, Elevation angle at 30, and Azimuth angle at 149.6 (in reference to the angle table on the back page of this manual)



< Skew >



< Elevation >



< Azimuth >



Step 6: Optimum Pointing & Finding the Signal (with Attenuation Thin Pad)

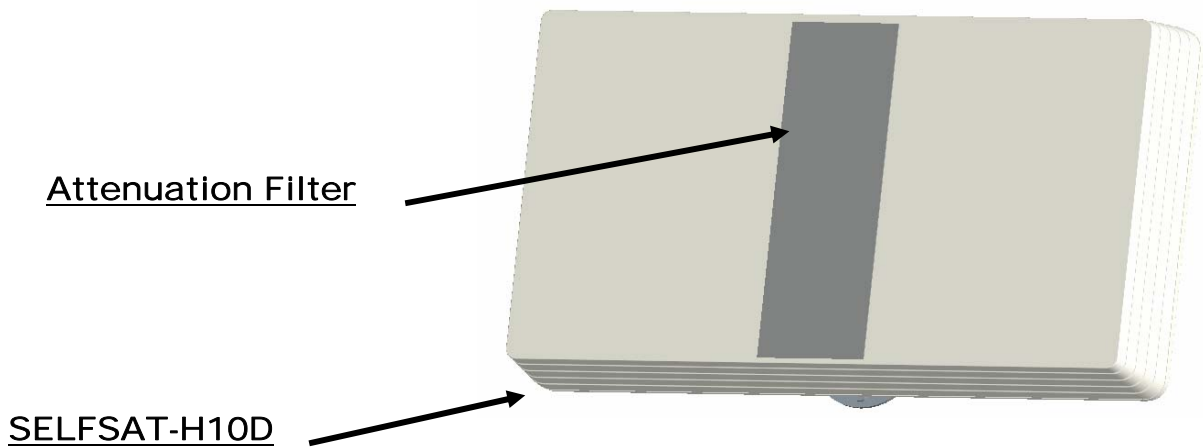
Use of Attenuation Thin Pad simulates bad weather conditions causing a signal loss and aids antenna positioning to receive an optimum signal in all weather conditions.

Optimum pointing and finding to gain the best signal is only possible after passing through step 5.

Please affix Attenuation Thin Pad back onto the face of antenna cover and you may start repeating to make adjustment of Skew angle, Azimuth, and Elevation as done the same in step 5, again to achieve the maximum and optimum signal level.

Once completed, remove the Attenuation Thin Pad (keep pad in a safe place to use in future for portable use) ensure that all the screws are well tightened to avoid the antenna moving position.

Note: During heavy cloud coverage or rainfall, the reception of signal level tends to weaken and in some cases the signal level will not be possible by the use of Attenuation Thin Pad. So during bad weather, you are recommended to skip step 6 for a use of Attenuation Thin Pad



Keep this Filter for the First installation and Pointing

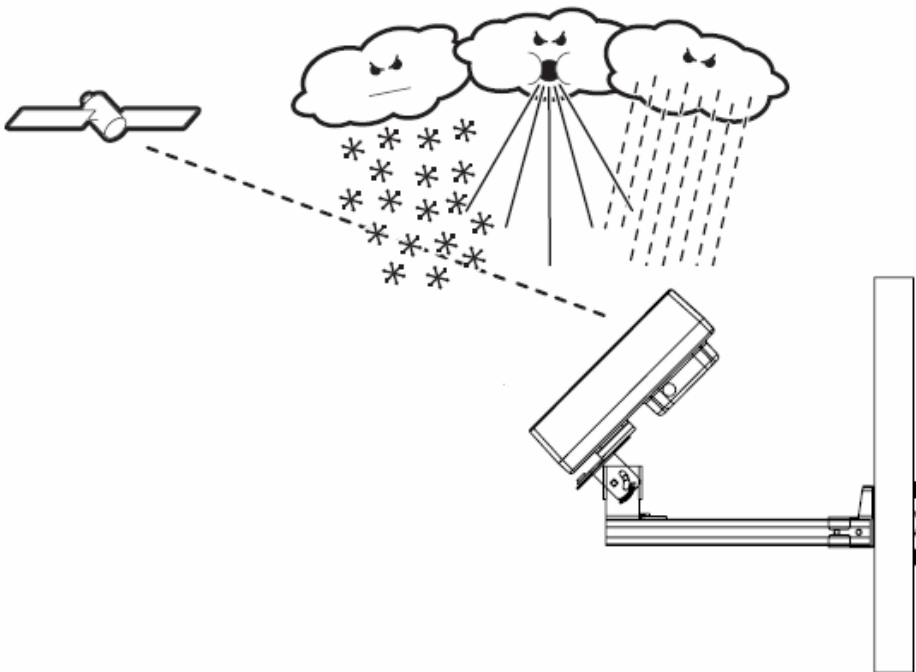
Troubleshooting Check List for Initial Installation

If the signal is not found, be sure the receiver user manual and the antenna user manual have been followed closely, check the following:

- Make sure all cable connections are correct and each connection is seated/tightened properly.
- Inspect the inside of each cable connector for dirt or possible connector to case/shield short.
- Verify the Azimuth, Elevation and Tilt angles for your location by ZIP code.
- Make sure the Tilt and Elevation pointers are aligned correctly to the scales. Do not use washer or bolt as reference.
- Make sure the Tilt adjustment is *not changed* from the recommended setting for the antenna location.
- Remove existing TV-specific components, such as TV splitter, etc; reduce the installation to the basic connections called out in this guide. Such components may not work with the satellite signal and they may be in the wall where you can't see them. When in doubt, run RG 6 cable directly to your receiver.
- Make sure there are no obstructions (trees, buildings, windows, corner or overhang of your roof, your body or hands) — the signal does not pass leaves, branches, glass, etc.
- RG 6 cable with solid copper center conductor is highly recommended because it has much lower DC voltage drop compared to RG 6 cable with a copper-coated, steel center conductor.
- Standard RG 59 cable causes too much DC drop and signal drop; it can not be used to pass the satellite signal. RG 6 coaxial cable must be used.
- Some after-market, off-the-shelf add-on components may not be as advertised. They might not work or could cause additional DC drops and signal amplitude attenuation. Remove such components, go back to the basic connections called out in this manual and re-verify.
- Make sure the satellite cable is connected to the "Sat In" jack, not the "Antenna In" jack. The "Antenna In" jack at the back of the receiver is for off-air antenna input or cable TV input.
- If all are done correctly but the signal is still not found, change the Elevation adjustment of the antenna slightly ($\pm 2^\circ$, then $\pm 4^\circ$ from the called-for setting) and repeat the procedure.
- Make sure the Access Card from your receiver is fully inserted into the Access Card slot and oriented correctly.

Loss of Signal / Rain Fade

- The satellite signal may be lost temporarily due to unusually heavy rainfall. An optimally aligned antenna, along with the shortest possible cable run, minimizes the chances of “rain fade.”
- Make sure the antenna is mounted securely to prevent it from being blown out of alignment in a heavy wind.
- Heavy snow accumulation on the antenna may reduce the satellite signal strength; snow should be swept away as soon as possible.
- Tree foliage growth into antenna’s line-of-sight to the satellite may result in gradual loss of picture.



Installation Using Long Cable

- For installations where the RG 6 cable runs from the receiver(s) to the LNB far exceeds 100 feet (150 feet or more), as encountered in a commercial or multi-dwelling building, you need to use an AC power booster module to bias the LNB.
- You will also need an additional RF signal amplifier to compensate the signal amplitude loss. Otherwise, your antenna and receiver may not work properly and be subject to frequent outages in adverse weather. Contact a professional concerning such installations.

France

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk : Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D			Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D
		1C,2A	Euro bird 1							1C,2A	Euro bird 1				
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Amiens eL 2.3 B + 49.9	Az	132.6	147.6	158.3	166.1	189.5	219.5	Mulhouse eL 7.3 B + 47.7	Az	136.9	152.7	164.1	172.4	196.5	225.9
	EI	21.6	27.7	30.6	31.9	32.4	25.1		EI	25.8	31.6	34.1	35.0	33.9	24.5
	Sk	-28.3	-20.2	-13.8	-8.9	6.1	24.2		Sk	-27.4	-18.0	-10.6	-5.1	11.0	28.9
Angers wL 0.6 B + 47.5	Az	128.7	143.3	154.0	161.9	186.0	217.4	Nancy eL 6.2; B + 48.7	Az	136.2	151.7	162.9	171.0	194.8	224.3
	EI	21.8	28.7	32.2	33.8	35.3	28.4		EI	24.5	30.2	32.8	33.7	33.1	24.3
	Sk	-31.8	-23.8	-17.2	-12.1	4.0	24.2		Sk	-27.2	-18.2	-11.2	-5.9	9.7	27.4
Angouleme eL 0.2 B + 45.7	Az	128.6	143.3	154.3	162.3	187.2	219.1	Nantes wL 1.6 B + 47.2	Az	127.6	142.1	152.7	160.5	184.6	216.4
	EI	23.4	30.6	34.2	35.9	37.2	29.6		EI	21.4	28.5	32.1	33.9	35.6	29.1
	Sk	-33.1	-24.7	-17.7	-12.3	5.1	26.2		Sk	-32.5	-24.7	-18.2	-13.1	3.1	23.8
Arras eL 2.8 B + 50.3	Az	133.3	148.3	159.0	166.8	190.1	219.9	Nizza eL 7.3 B + 43.7	Az	135.0	151.0	163.0	171.7	197.5	227.8
	EI	21.6	27.6	30.4	31.6	31.9	24.6		EI	28.9	35.4	38.3	39.3	38.1	27.4
	Sk	-27.7	-19.6	-13.2	-8.4	6.4	24.2		Sk	-30.8	-20.5	-12.2	-6.0	12.6	32.4
Bayonne eL 1.5 B + 43.3	Az	128.8	143.7	155.1	163.5	189.4	221.8	Orleans eL 1.9 B + 47.9	Az	131.4	146.3	157.2	165.1	189.2	220.0
	EI	25.8	33.3	37.0	38.7	39.6	30.9		EI	22.8	29.4	32.5	33.9	34.6	27.0
	Sk	-34.6	-25.5	-17.9	-12.0	6.9	29.0		Sk	-30.2	-21.8	-15.1	-9.9	6.2	25.5
Belfort eL 6.8 B + 47.6	Az	136.4	152.1	163.5	171.7	195.8	225.4	Paris eL 2.3 B + 48.9	Az	132.2	147.2	158.1	166.0	189.7	220.0
	EI	25.6	31.5	34.0	35.0	34.1	24.8		EI	22.4	28.7	31.7	33.1	33.5	26.0
	Sk	-27.7	-18.4	-11.1	-5.6	10.6	28.7		Sk	-29.2	-20.9	-14.2	-9.2	6.3	25.0
Bordeaux wL 0.6 B + 44.8	Az	127.5	142.1	153.0	161.1	186.3	218.7	Quimper wL 4.2; B + 48.0	Az	125.5	139.6	149.9	157.4	181.1	213.1
	EI	23.5	31.0	34.8	36.6	38.2	30.7		EI	19.4	26.7	30.5	32.4	34.9	29.5
	Sk	-34.2	-25.8	-18.8	-13.3	4.4	26.3		Sk	-33.0	-25.7	-19.6	-14.9	0.7	21.4
Boulogne wL 1.6 B + 50.7	Az	132.3	147.1	157.7	165.4	184.4	214.9	Reims eL 4.0 B + 49.3	Az	134.1	149.3	160.3	168.2	191.8	221.7
	EI	20.8	26.8	29.6	31.0	31.8	26.1		EI	23.0	29.0	31.7	32.9	32.9	24.9
	Sk	-27.9	-20.1	-13.9	-9.2	2.8	21.3		Sk	-27.9	-19.4	-12.7	-7.7	7.7	25.7
Brest wL 4.5 B + 48.4	Az	125.3	139.3	149.6	157.1	180.6	212.5	Rennes wL 1.7 B + 48.1	Az	127.9	142.3	152.9	160.6	184.5	215.9
	EI	19.0	26.2	30.0	31.9	34.4	29.3		EI	20.8	27.7	31.2	32.9	34.7	28.4
	Sk	-32.8	-25.6	-19.7	-15.0	0.4	20.9		Sk	-31.8	-24.1	-17.7	-12.8	3.0	23.0
Caen wL 0.4 B + 49.2	Az	129.7	144.3	154.8	162.6	186.1	216.9	Rouen eL 1.1 B + 49.5	Az	131.2	146.0	156.7	164.5	188.0	218.4
	EI	20.8	27.3	30.6	32.2	33.4	26.9		EI	21.3	27.7	30.7	32.2	33.0	26.0
	Sk	-30.2	-22.5	-16.1	-11.3	4.0	23.1		Sk	-29.3	-21.3	-14.9	-10.0	5.2	23.8
Calais eL 1.9 B + 51.0	Az	132.7	147.6	158.2	165.9	188.9	218.7	St.-Etienne eL 4.4 B + 45.4	Az	132.8	148.2	159.6	168.0	193.1	223.8
	EI	20.7	26.6	29.5	30.7	31.3	24.4		EI	26.0	32.6	35.7	37.0	36.9	27.7
	Sk	-27.6	-19.8	-13.5	-8.9	5.6	23.2		Sk	-31.0	-21.7	-14.1	-8.4	9.2	29.1
Chalons-sur-Marne eL 4.3 B + 49.0	Az	134.3	149.6	160.6	168.6	192.3	222.2	St.-Nazaire wL 2.2 B + 47.3	Az	127.1	141.4	151.9	159.7	183.8	215.7
	EI	23.3	29.3	32.1	33.2	33.1	25.0		EI	21.0	28.2	31.8	33.7	35.6	29.3
	Sk	-28.0	-19.4	-12.6	-7.5	8.0	26.1		Sk	-32.8	-25.1	-18.6	-13.6	2.6	23.3
Charleville-Mezieres eL 4.7 B + 49.7	Az	135.0	150.3	161.2	169.1	192.6	222.2	St.-Quentin eL 3.3 B + 49.8	Az	133.6	148.7	159.5	167.3	190.8	220.6
	EI	22.9	28.7	31.4	32.5	32.2	24.2		EI	22.2	28.1	30.9	32.1	32.3	24.8
	Sk	-27.2	-18.7	-12.0	-7.0	8.1	25.8		Sk	-27.8	-19.6	-13.0	-8.1	7.0	24.9
Clermont-Ferrand eL 3.1 B + 45.8	Az	131.6	146.8	158.0	166.3	191.2	222.3	Straßburg eL 7.8 B + 48.6	Az	137.8	153.6	164.9	173.0	196.8	225.9
	EI	25.0	31.8	35.0	36.4	36.7	28.1		EI	25.3	30.9	33.2	34.0	32.9	23.6
	Sk	-31.5	-22.5	-15.1	-9.5	7.8	28.0		Sk	-26.4	-17.1	-9.9	-4.6	11.1	28.4
Colmar eL 7.3 B + 48.1	Az	137.1	152.9	164.2	172.4	196.4	225.7	Toulouse eL 1.5 B + 43.6	Az	128.9	143.8	155.1	163.5	189.3	221.6
	EI	25.5	31.2	33.7	34.5	33.5	24.2		EI	25.5	33.0	36.7	38.4	39.3	30.7
	Sk	-27.1	-17.7	-10.5	-5.1	10.8	28.5		Sk	-34.3	-25.3	-17.8	-11.9	6.8	28.8
Epinal eL 6.5 B + 48.2	Az	136.2	151.8	163.1	171.2	195.2	224.7	Tours eL 0.7 B + 47.4	Az	129.9	144.7	155.5	163.4	187.7	218.9
	EI	25.0	30.8	33.4	34.3	33.6	24.6		EI	22.6	29.3	32.7	34.3	35.3	28.0
	Sk	-27.5	-18.4	-11.2	-5.8	10.1	28.0		Sk	-31.3	-13.0	-16.3	-11.1	5.2	25.2
Le Havre eL 0.1 B + 49.5	Az	130.3	144.9	155.5	163.2	186.7	217.3	Verdun eL 5.4 B + 49.2	Az	135.5	150.9	162.0	170.0	193.6	223.2
	EI	20.8	27.2	30.4	31.9	33.0	26.4		EI	23.7	29.5	32.1	33.2	32.7	24.3
	Sk	-29.7	-21.9	-15.6	-10.8	4.3	23.2		Sk	-27.3	-18.5	-11.7	-6.5	8.9	26.6
Limoges eL 1.3 B + 45.8	Az	129.8	144.7	155.7	163.8	188.7	220.2	Marseille eL 5.4 B + 43.3	Az	132.7	148.5	160.3	168.9	194.9	226.0
	EI	23.9	31.0	34.4	36.0	36.9	29.0		EI	28.1	35.0	38.2	39.5	39.0	28.8
	Sk	-32.4	-23.8	-16.7	-11.2	6.1	26.8		Sk	-32.3	-22.4	-14.2	-8.0	10.8	31.6
Lorient wL 3.4 B + 47.8	Az	126.1	140.3	150.7	158.3	182.2	214.1	Metz eL 6.2 B + 49.1	Az	136.3	151.8	163.0	171.0	194.6	224.0
	EI	20.0	27.2	31.0	32.9	35.1	29.4		EI	24.1	29.8	32.3	33.3	32.6	24.0
	Sk	-32.9	-25.4	-19.2	-14.4	1.5	22.1		Sk	-26.9	-18.0	-11.0	-5.9	9.6	27.1
Lyon eL 4.8 B + 45.8	Az	133.4	148.9	160.4	168.7	193.6	224.2	Montpellier eL 3.9 B + 43.6	Az	131.3	146.8	158.3	166.9	192.8	224.2
	EI	26.0	32.5	35.5	36.7	36.4	27.2		EI	27.0	34.1	37.5	38.9	38.9	29.4
	Sk	-30.5	-21.1	-13.6	-7.9	9.4	29.0		Sk	-33.0	-23.4	-15.5	-9.5	9.2	30.4

*Note > As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Great Britain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk : Skew

		Turk sat 1C,2A	Astra 2A/2B/ 2D Euro bird 1	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D			Turk sat 1C,2A	Astra 2A/2B/ 2D Euro bird 1	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Aberdeen wL 2.1 B + 57.1	Az	130.9	145.2	155.1	162.2	183.5	212.2	Iverness wL 4.2 B + 57.5	Az	129.0	143.0	152.8	159.8	180.9	209.8
	EI	14.6	19.8	22.4	23.7	25.0	20.6		EI	13.4	18.8	21.5	22.9	24.6	20.8
	Sk	-24.2	-18.1	-13.2	-9.6	1.9	16.8		Sk	-24.7	-18.9	-14.2	-10.7	0.5	15.5
Belfast wL 5.9 B + 54.6	Az	126.3	140.2	150.1	157.2	178.9	208.7	Kingston upon hull wL:0.33 B:+53.75	Az	131.5	146.0	156.3	163.6	185.8	215.2
	EI	14.4	20.5	23.7	25.4	27.7	24.0		EI	17.6	23.4	26.1	27.4	28.5	22.9
	Sk	-27.8	-21.7	-16.8	-13.0	-0.6	16.2		Sk	-26.3	-19.3	-13.8	-9.6	3.4	20.0
Birmingham wL 1.8 B + 52.5	Az	129.6	143.9	154.1	161.5	184.0	214.0	Leeds wL 1.6 B + 53.8	Az	130.3	144.7	154.8	162.1	184.2	213.8
	EI	17.8	23.9	26.9	28.4	29.9	24.6		EI	17.0	22.8	25.7	27.1	28.5	23.3
	Sk	-28.0	-21.0	-15.4	-11.1	2.5	19.9		Sk	-26.8	-20.0	-14.6	-10.5	2.5	19.2
Bradford wL 1.8 B + 53.8	Az	130.1	144.5	154.6	161.9	184.0	213.7	Liverpool wL 2.9 B + 53.4	Az	128.8	143.1	153.2	160.4	182.6	212.5
	EI	16.9	22.8	25.7	27.1	28.5	23.4		EI	16.6	22.7	25.7	27.3	29.0	24.1
	Sk	-26.9	-20.1	-14.7	-10.6	2.3	19.1		Sk	-27.7	-21.0	-15.6	-11.5	1.6	18.7
Bristol wL 2.6 B + 51.5	Az	128.4	142.7	152.9	160.4	183.1	213.6	Leicester wL:1.08 B:+52.63	Az	130.4	144.8	155.1	162.5	184.9	214.8
	EI	18.1	24.5	27.7	29.3	31.1	25.8		EI	18.1	24.1	27.0	28.4	29.7	24.2
	Sk	-29.2	-22.2	-16.5	-12.1	1.9	20.1		Sk	-27.6	-20.5	-14.8	-10.5	3.0	20.3
Cardiff wL 3.16 B + 51.48	Az	127.9	142.1	152.3	159.7	182.4	212.9	London wL 0.2 B + 51.5	Az	130.8	145.4	155.8	163.4	186.2	216.2
	EI	17.8	24.3	27.5	29.2	31.1	25.9		EI	19.3	25.4	28.3	29.8	30.9	24.8
	Sk	-29.4	-22.5	-16.9	-12.5	1.5	19.8		Sk	-28.1	-20.7	-14.8	-10.3	3.8	21.6
Chichester wL:0.778 B:+50.83	Az	130.0	144.5	154.9	162.4	185.4	215.8	Manchester wL 2.3 B + 53.5	Az	129.5	143.8	154.0	161.3	183.4	213.2
	EI	19.4	25.8	28.9	30.4	31.6	25.6		EI	16.9	22.9	25.8	27.3	28.9	23.8
	Sk	-29.0	-21.5	-15.6	-11.0	3.4	21.7		Sk	-27.3	-20.6	-15.2	-11.1	2.0	19.0
Coventry wL:1.5 B:+52.42	Az	129.9	144.3	154.5	161.9	184.4	214.4	Newcastle uponTyne wL 1.6 B + 55.0	Az	130.7	145.0	155.1	162.4	184.1	213.4
	EI	18.0	21.1	27.0	28.6	30.0	24.5		EI	16.2	21.8	24.5	25.9	27.2	22.3
	Sk	-27.9	-20.9	-15.2	-10.9	2.7	20.2		Sk	-25.8	-19.2	-14.0	-10.0	2.4	18.4
Dover eL 1.3 B + 51.1	Az	132.1	146.9	157.5	165.1	188.1	218.0	Norwich eL 1.3 B + 52.6	Az	132.7	147.4	157.9	165.4	187.9	217.4
	EI	20.3	26.3	29.1	30.5	31.2	24.6		EI	19.2	24.9	27.6	28.9	29.6	23.3
	Sk	-27.8	-20.1	-13.9	-9.3	5.1	22.7		Sk	-26.5	-19.1	-13.2	-8.8	4.8	21.7
Edinburgh wL 3.2 B + 56.0	Az	129.4	143.6	153.6	160.7	182.2	211.4	Nottingham wL 1.3 B + 52.9	Az	130.2	144.6	154.9	162.3	184.6	214.5
	EI	14.8	20.4	23.2	24.6	26.2	21.9		EI	17.8	23.7	26.6	28.1	29.5	24.0
	Sk	-25.6	-19.4	-14.4	-10.7	1.2	16.9		Sk	-27.4	-20.4	-14.8	-10.6	2.8	20.0
Glasgow wL 4.2 B + 55.9	Az	128.4	142.5	152.4	159.5	180.9	210.2	Plymouth wL 4.2; B + 50.4	Az	126.5	140.5	150.7	158.1	181.0	212.1
	EI	14.4	20.1	23.0	24.5	26.4	22.3		EI	17.9	24.7	28.2	30.0	32.3	27.3
	Sk	-26.0	-19.9	-15.1	-11.3	0.5	16.4		Sk	-30.8	-23.9	-18.2	-13.8	0.7	19.8
Greenwich eL:0 B:+51.48	Az	131.0	145.6	156.0	156.0	186.4	216.4	Portsmouth wL 1.1 B + 50.8	Az	129.6	144.1	154.5	162.0	185.0	215.5
	EI	19.4	25.5	28.4	28.4	30.9	24.7		EI	19.3	25.6	28.7	30.3	31.7	25.8
	Sk	-28.0	-20.6	-14.7	-14.7	4.0	21.7		Sk	-29.1	-21.8	-15.8	-11.2	3.2	21.5
Swansea wL 4.0 B + 51.6	Az	127.1	141.2	151.3	158.7	181.3	211.9	Sheffield wL 1.5 B + 53.4	Az	130.2	144.6	154.8	162.1	184.4	214.1
	EI	17.3	23.8	27.1	28.8	31.0	26.1		EI	17.3	23.2	26.1	27.6	28.9	23.7
	Sk	-29.7	-22.9	-17.3	-13.1	0.8	19.2		Sk	-27.1	-20.2	-14.7	-10.5	2.6	19.5
Wolverhampton wL 2.2 B + 52.6	Az	129.2	143.6	153.7	161.1	183.5	213.6	Southampton wL:1.38 B:+50.9	Az	129.4	143.8	154.2	161.7	184.7	215.1
	EI	17.5	23.6	26.7	28.2	29.8	24.6		EI	19.1	25.5	28.6	30.1	31.6	25.8
	Sk	-28.1	-21.2	-15.6	-11.3	2.1	19.6		Sk	-29.2	-21.9	-15.9	-11.4	2.9	21.3
York wL:1.08 B:+53.95	Az	130.9	145.3	155.4	162.8	184.8	214.4								
	EI	17.2	22.9	25.7	27.1	28.3	23.0								
	Sk	-26.4	-19.6	-14.2	-10.0	2.9	19.4								

*Note > As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Germany

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk : Skew

		Turk sat 1C,2A	Astra 2A/2B /2D Euro bird 1	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D			Turk sat 1C,2A	Astra 2A/2B/ 2D Euro bird 1	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Aachen eL 6.1 B + 50.8	Az	136.9	152.3	163.3	171.1	194.2	223.2	Frankfurt am Main eL 8.7 B + 50.1	Az	139.4	155.2	166.4	174.4	197.6	226.2
	EI	22.8	28.2	30.5	31.5	30.9	22.7		EI	24.5	29.6	31.7	32.4	31.1	22.0
	Sk	-25.6	-17.1	-10.5	-5.6	8.9	25.7		Sk	-24.7	-15.6	-8.7	-3.6	11.2	27.6
Aalen eL 10.1 B + 48.8	Az	140.4	156.5	168.0	176.2	199.7	228.2	Freising eL 11.8 B + 48.4	Az	142.1	158.5	170.1	178.3	201.9	230.0
	EI	26.2	31.3	33.3	33.9	32.1	22.2		EI	27.3	32.2	34.0	34.4	32.1	21.6
	Sk	-24.8	-15.2	-7.9	-2.5	12.9	29.4		Sk	-24.1	-14.1	-6.5	-1.1	14.4	30.6
Aschaffenburg eL 9.2 B + 50.0	Az	139.9	155.7	167.0	175.0	198.2	226.8	Göttingen eL 9.9 B + 51.5	Az	141.3	157.1	168.2	176.1	198.8	226.9
	EI	24.8	29.9	31.9	32.6	31.2	21.9		EI	23.9	28.6	30.4	31.0	29.4	20.4
	Sk	-24.4	-15.3	-8.9	-3.2	11.7	27.9		Sk	-22.9	-14.0	-7.3	-2.5	11.6	27.0
Augsburg eL 10.9 B + 48.4	Az	141.1	157.4	169.0	177.2	200.9	229.2	Hamburg eL 10.0 B + 53.6	Az	142.2	157.8	168.7	176.3	198.5	226.2
	EI	26.9	32.0	33.9	34.4	32.4	22.1		EI	22.2	26.6	28.3	28.8	27.3	18.8
	Sk	-24.6	-14.8	-7.3	-1.9	13.7	30.2		Sk	-21.3	-13.0	-6.7	-2.2	10.8	25.4
Bad Hersfeld eL 9.7 B + 50.9	Az	140.8	156.7	167.8	175.8	198.7	227.0	Heide eL 9.1 B + 54.2	Az	141.4	156.9	167.6	175.2	197.2	225.1
	EI	24.3	29.2	31.1	31.7	30.1	20.9		EI	21.3	25.7	27.5	28.0	26.8	18.8
	Sk	-23.5	-14.5	-7.6	-2.7	11.7	27.4		Sk	-21.4	-13.3	-7.2	-2.8	10.0	24.5
Bad Homburg eL 8.6 B + 50.2	Az	139.4	155.2	166.3	174.3	197.5	226.1	Heidelber g eL 8.7 B + 49.4	Az	139.1	155.0	166.3	174.3	197.8	226.5
	EI	24.4	29.5	31.6	32.3	31.0	21.9		EI	25.1	30.3	32.5	33.2	31.9	22.5
	Sk	-24.6	-15.6	-8.7	-3.7	11.1	27.5		Sk	-25.2	-16.0	-8.9	-3.7	11.5	28.2
Bad Neuenahr eL 7.1 B + 50.6	Az	137.9	153.5	164.5	172.4	195.5	224.4	Hof eL 11.9 B + 50.3	Az	143.0	159.2	170.6	178.6	201.6	229.4
	EI	23.5	28.8	31.0	31.8	31.0	22.4		EI	25.7	30.3	31.9	32.3	30.2	20.2
	Sk	-25.2	-16.5	-9.8	-4.8	9.8	26.4		Sk	-22.6	-13.1	-6.0	-0.9	13.6	29.0
Baden- Baden eL 8.2 B + 48.8	Az	138.4	154.2	165.6	173.7	197.4	226.3	Köln eL 7.0 B + 51.0	Az	137.9	153.4	164.4	172.2	195.2	224.1
	EI	25.4	30.8	33.1	33.9	32.6	23.2		EI	23.1	28.3	30.5	31.4	30.6	22.2
	Sk	-26.0	-16.7	-9.5	-4.2	11.3	28.4		Sk	-24.9	-16.3	-9.7	-4.8	9.6	26.0
Bamberg eL 10.9 B + 49.9	Az	141.7	157.8	169.2	177.2	200.4	228.5	Lübeck eL 10.7 B + 53.9	Az	143.0	158.7	169.5	177.1	199.2	226.8
	EI	25.6	30.5	32.3	32.8	30.8	21.0		EI	22.2	26.4	28.0	28.5	26.8	18.3
	Sk	-23.5	-14.1	-6.9	-1.8	13.0	28.9		Sk	-20.8	-12.4	-6.2	-1.7	11.2	25.4
Bergen eL 13.4 B + 54.4	Az	146.2	162.0	172.9	180.5	202.3	229.3	München eL 11.6 B + 48.1	Az	141.7	158.1	169.8	178.1	201.8	230.0
	EI	22.7	26.5	27.7	27.9	25.7	16.7		EI	27.4	32.4	34.2	34.7	32.4	21.9
	Sk	-18.9	-10.4	-4.1	0.3	12.7	26.2		Sk	-24.4	-14.4	-6.8	-1.3	14.4	30.8
Berlin eL 13.4 B + 52.5	Az	145.5	161.6	172.7	180.5	202.8	230.0	Münster eL 8.9 B + 49.9	Az	139.5	155.4	166.6	174.6	197.9	226.5
	EI	24.4	28.4	29.7	30.0	27.6	18.0		EI	24.7	29.9	31.9	32.6	31.3	22.0
	Sk	-20.2	-11.1	-4.4	0.3	13.6	27.8		Sk	-24.7	-15.6	-8.6	-3.5	11.4	27.9
Bingen eL 9.3 B + 48.1	Az	139.2	155.3	166.8	175.0	198.9	227.7	Nienburg eL 11.8 B + 51.8	Az	143.5	159.4	170.6	178.4	201.0	228.6
	EI	26.4	31.8	33.9	34.6	33.0	23.1		EI	24.4	28.7	30.3	30.7	28.7	19.2
	Sk	-25.9	-16.2	-8.8	-3.3	12.5	29.6		Sk	-21.6	-12.5	-5.8	-0.9	12.8	27.7
Bonn eL 7.1 B + 50.7	Az	138.0	153.5	164.5	172.4	195.5	224.3	Offenburg eL 8.0 B + 48.5	Az	137.9	153.8	165.1	173.3	197.1	226.2
	EI	23.3	28.6	30.8	31.6	30.8	22.3		EI	25.5	31.0	33.3	34.2	33.0	23.6
	Sk	-25.1	-16.4	-9.7	-4.8	9.7	26.3		Sk	-26.3	-17.0	-9.8	-4.4	11.3	28.6
Bremen eL 8.8 B + 53.1	Az	140.7	156.2	167.1	174.8	197.1	225.2	Passau eL 13.5 B + 48.6	Az	144.1	160.7	172.4	180.6	204.0	231.7
	EI	22.1	26.8	28.6	29.2	28.0	19.7		EI	27.9	32.5	34.0	34.3	31.5	20.6
	Sk	-22.4	-14.0	-7.7	-3.2	10.2	25.2		Sk	-22.8	-12.6	-5.0	0.4	15.6	31.3
Chemnitz eL 12.9 B + 50.8	Az	144.3	160.6	171.9	179.9	202.6	230.2	REastock eL 12.1 B + 54.1	Az	144.7	160.4	171.3	178.9	200.8	228.2
	EI	25.7	30.0	31.5	31.8	29.4	19.4		EI	22.6	26.5	27.9	28.3	26.3	17.5
	Sk	-21.6	-12.2	-5.1	-0.1	14.1	29.0		Sk	-19.8	-11.4	-5.1	-0.7	12.0	25.9
Deggendorf eL 13.0 B + 48.8	Az	143.6	160.1	171.7	180.0	203.3	231.1	Traunstein eL 12.7 B + 47.9	Az	142.8	159.4	171.2	179.5	203.2	231.2
	EI	27.4	32.1	33.7	34.0	31.4	20.7		EI	28.1	33.0	34.7	35.0	32.4	21.5
	Sk	-23.0	-12.9	-5.4	0.0	15.1	30.8		Sk	-23.9	-13.6	-5.8	-0.3	15.4	31.5
Dortmund eL 7.5 B + 51.5	Az	138.7	154.2	165.1	172.9	195.8	224.4	Ulm eL 10.0 B + 48.4	Az	140.1	156.2	167.8	176.0	199.7	228.3
	EI	22.8	27.9	30.0	30.8	29.9	21.5		EI	26.5	31.7	33.7	34.4	32.6	22.6
	Sk	-24.3	-15.7	-9.2	-4.4	9.8	25.8		Sk	-25.2	-15.5	-8.1	-2.7	12.9	29.7
Düsseldorf eL 6.8 B + 51.2	Az	137.8	153.3	164.2	172.0	195.0	223.8	Wesel eL 6.6 B + 51.7	Az	137.8	153.2	164.1	171.9	194.7	223.5
	EI	22.8	28.0	30.2	31.1	30.3	22.1		EI	22.3	27.5	29.7	30.6	29.9	21.8
	Sk	-24.9	-16.4	-9.8	-5.0	9.3	25.7		Sk	-24.6	-16.2	-9.8	-5.0	9.0	25.2

*Note > As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Italy

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk : Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /B	Atlanti cbird 3	Hispa sat 1C,1D			Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /B	Atlanti cbird 3	Hispa sat 1C,1D
		1C,2A	Euro bird 1							1C,2A	Euro bird 1				
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Ancona eL 13.5 B + 43.6	Az	141.8	159.2	171.8	180.7	205.9	234.0	La Spezia eL 9.8 B + 44.1	Az	137.9	154.5	166.7	175.5	200.8	230.1
	EI	32.2	37.6	39.4	39.8	36.4	23.7		EI	29.9	35.9	38.3	39.0	37.0	25.6
	Sk	-21.6	-14.9	-6.0	0.5	18.4	35.9		Sk	-28.8	-18.0	-9.5	-3.3	14.8	33.5
Arezzo eL 11.8 B + 43.5	Az	139.8	156.9	169.4	178.3	203.7	232.5	Lecce eL 18.2 B + 40.3	Az	145.7	164.7	178.4	188.0	213.5	239.9
	EI	31.5	37.2	39.3	39.9	37.1	24.9		EI	37.3	42.2	43.4	43.1	37.6	22.5
	Sk	-27.9	-16.6	-7.7	-1.2	16.9	35.1		Sk	-25.5	-11.6	-1.2	6.1	24.9	41.3
Asciano eL 11.5 B + 43.2	Az	139.3	156.4	168.9	177.9	203.4	232.3	Livorno eL 10.3 B + 43.5	Az	138.1	154.9	167.2	176.1	201.7	230.9
	EI	31.5	37.4	39.5	40.1	37.4	25.2		EI	30.6	36.7	39.1	39.8	37.5	25.8
	Sk	-28.4	-17.0	-8.1	-1.6	16.8	35.2		Sk	-29.0	-18.0	-9.3	-2.8	15.5	34.3
Ascoli Piceno eL 13.6 B + 42.9	Az	141.5	159.0	171.7	180.8	206.3	234.4	Milano eL 9.2 B + 45.5	Az	137.9	154.2	166.1	174.7	199.5	228.8
	EI	32.9	38.4	40.2	40.6	37.1	24.2		EI	28.5	34.4	36.8	37.5	35.8	25.1
	Sk	-27.1	-15.2	-6.0	0.6	18.9	36.6		Sk	-28.0	-17.8	-9.7	-2.8	13.6	31.8
Ascoli Satriano eL 15.5 B + 41.2	Az	142.9	161.2	174.4	183.8	209.6	237.1	Napoli eL 14.3 B + 40.8	Az	141.2	159.2	172.5	181.9	208.1	236.1
	EI	35.3	40.7	42.3	42.3	38.0	23.9		EI	34.9	40.7	42.6	42.8	38.8	24.9
	Sk	-27.0	-14.1	-4.2	2.9	21.8	39.2		Sk	-28.3	-15.6	-5.7	1.5	21.0	39.0
Bari eL 16.9 B + 41.1	Az	144.5	163.1	176.5	185.9	211.4	238.4	Padova eL 11.6 B + 45.3	Az	140.5	157.2	169.4	178.0	202.8	231.3
	EI	36.0	41.1	42.4	42.3	37.5	23.0		EI	29.8	35.3	37.3	37.8	35.3	23.8
	Sk	-25.9	-12.7	-2.7	4.4	23.2	39.9		Sk	-26.6	-15.8	-7.5	-1.4	15.8	33.3
Barletta eL 16.3 B + 41.3	Az	143.9	162.3	175.6	185.0	210.5	237.7	Palermo eL 13.4 B + 38.1	Az	138.5	156.8	170.6	180.6	208.3	236.8
	EI	35.5	40.7	42.2	42.1	37.5	23.3		EI	36.7	43.2	45.4	45.8	41.8	27.1
	Sk	-26.3	-13.2	-3.3	3.7	22.5	39.5		Sk	-31.4	-18.1	-7.4	0.5	21.9	41.2
Bergamo eL 9.7 B + 45.7	Az	138.5	154.9	166.8	175.3	200.1	229.2	Parma eL 10.3 B + 44.8	Az	138.8	155.4	167.5	176.2	201.3	230.3
	EI	28.5	34.3	36.6	37.3	35.4	24.6		EI	29.6	35.4	37.7	38.3	36.1	24.8
	Sk	-27.5	-17.2	-9.2	-3.2	13.9	31.9		Sk	-27.9	-17.2	-8.8	-2.7	14.9	33.1
Bologna eL 11.3 B + 44.5	Az	139.8	156.6	168.8	177.6	202.7	231.4	Pavia eL 9.2 B + 45.2	Az	137.7	154.1	166.0	174.6	199.6	229.0
	EI	30.4	36.0	38.1	38.7	36.2	24.5		EI	28.7	34.7	37.1	37.9	36.1	25.3
	Sk	-27.5	-16.5	-7.9	-1.7	15.9	33.9		Sk	-28.3	-18.0	-9.8	-3.8	13.7	32.1
Bolzano eL 11.3 B + 46.5	Az	140.7	157.3	169.2	177.7	202.0	230.5	Pesaro eL 12.9 B + 43.9	Az	141.2	158.5	170.9	179.8	204.9	233.2
	EI	28.7	34.0	36.0	36.5	34.2	23.1		EI	31.6	37.1	39.0	39.4	36.3	23.9
	Sk	-25.9	-15.4	-7.4	-1.6	14.9	32.1		Sk	-26.8	-15.3	-6.5	-0.1	17.7	35.3
Brescia eL 10.3 B + 45.5	Az	139.1	155.6	167.6	176.2	201.0	229.9	Pescara eL 14.2 B + 42.5	Az	142.0	159.8	172.6	181.8	207.3	235.2
	EI	29.0	34.7	36.9	37.6	35.5	24.4		EI	33.5	39.0	40.7	41.0	37.2	24.0
	Sk	-27.3	-16.8	-8.6	-2.6	14.5	32.4		Sk	-27.0	-14.8	-5.4	1.3	19.7	37.3
Cagliari eL 9.1 B + 39.3	Az	134.4	151.3	164.3	173.9	201.7	232.1	Piacenza eL 9.6 B + 45.0	Az	138.1	154.5	166.5	175.2	200.2	229.5
	EI	33.3	40.4	43.4	44.4	42.3	29.4		EI	29.1	35.0	37.3	38.1	36.2	25.2
	Sk	-33.6	-21.8	-12.1	-4.7	16.6	37.6		Sk	-28.2	-17.7	-9.5	-3.4	14.2	32.5
Carpi eL 10.9 B + 44.8	Az	139.4	156.1	168.3	177.0	202.0	230.8	Pisa eL 10.4 B + 43.7	Az	138.3	155.1	167.3	176.2	201.7	230.9
	EI	29.9	35.6	37.8	38.4	36.0	24.6		EI	30.5	36.5	38.8	39.5	37.3	25.6
	Sk	-27.5	-15.8	-5.8	1.4	15.4	33.4		Sk	-28.7	-17.7	-9.1	-2.7	15.5	34.2
Carrara eL 10.1 B + 44.1	Az	138.2	154.9	167.1	175.9	201.2	230.5	Roma eL 12.5 B + 41.9	Az	139.7	157.2	170.0	179.3	205.3	233.9
	EI	30.1	36.1	38.4	39.1	37.0	25.5		EI	33.1	39.1	41.2	41.6	38.4	25.5
	Sk	-28.6	-17.8	-9.3	-3.0	15.1	33.6		Sk	-28.8	-16.8	-7.4	-0.6	18.5	37.0
Catania eL 15.1 B + 37.5	Az	140.2	159.0	173.2	183.4	211.0	238.7	Taranto eL 17.2 B + 40.5	Az	144.5	163.3	176.9	186.4	212.1	239.0
	EI	38.2	44.4	46.3	46.5	41.7	26.3		EI	36.7	41.8	43.1	43.0	37.9	23.1
	Sk	-30.5	-16.5	-5.4	2.7	24.1	42.7		Sk	-26.2	-12.6	-2.4	4.9	23.9	40.7
Catanzaro eL 16.6 B + 38.9	Az	142.9	161.9	175.9	185.8	212.3	239.3	Torino eL 7.7 B + 45.1	Az	136.0	152.1	163.9	172.5	197.6	227.5
	EI	37.8	43.4	44.9	44.8	39.7	24.4		EI	28.0	34.2	36.9	37.8	36.6	26.2
	Sk	-28.0	-14.0	-3.2	4.5	24.5	42.0		Sk	-29.3	-19.3	-11.3	-5.3	12.4	31.4
Cesaro eL 14.6 B + 37.8	Az	139.8	158.5	172.6	182.7	210.2	238.1	Trento eL 11.1 B + 46.1	Az	140.3	156.9	168.9	177.4	201.9	230.5
	EI	37.7	43.9	45.9	46.1	41.6	26.4		EI	28.9	34.4	36.4	37.0	34.6	23.5
	Sk	-30.7	-16.8	-5.9	2.1	23.4	42.2		Sk	-26.3	-15.8	-7.7	-1.8	14.9	32.3
Cesena eL 12.2 B + 44.2	Az	140.6	157.7	170.0	178.9	204.0	232.5	Trieste eL 13.7 B + 45.6	Az	143.0	160.1	172.3	181.0	205.3	233.2
	EI	31.1	36.7	38.6	39.1	36.3	24.2		EI	30.6	35.6	37.2	37.5	34.3	22.4
	Sk	-27.1	-15.8	-7.1	-0.8	16.9	34.6		Sk	-24.9	-13.8	-5.4	0.7	17.4	34.1
Cosenza eL 16.2 B + 39.3	Az	142.7	161.5	175.3	185.1	211.5	238.8	Venezia eL 12.3 B + 45.4	Az	141.4	158.2	170.4	179.1	203.7	232.0
	EI	37.3	42.9	44.4	44.4	39.5	24.5		EI	30.1	35.4	37.3	37.7	34.9	23.3
	Sk	-28.0	-14.2	-3.6	3.9	23.8	41.4		Sk	-26.0	15.1	-6.7	-0.6	16.3	33.6
Ferrara eL 11.6 B + 44.8	Az	140.2	157.1	169.3	178.0	202.9	231.6	Verona eL 11.0 B + 45.3	Az	139.8	156.5	168.5	177.2	202.0	230.7
	EI	30.2	35.8	37.8	38.4	35.8	24.1		EI	29.5	35.1	37.2	37.8	35.5	24.1
	Sk	-27.0	-16.1	-7.6	-1.4	16.1	33.8		Sk	-27.0	-16.3	-8.0	-2.0	11.6	33.0
Firenze eL 11.3 B + 43.8	Az	139.3	156.2	168.6	177.5	202.8	231.7	Venise eL 12.2 B + 45.3	Az	141.1	158.0	170.2	178.9	203.5	231.9
	EI	30.9	36.7	38.9	39.5	36.9	25.0		EI	30.1	35.5	37.4	37.8	35.1	23.4
	Sk	-28.0	-16.9	-8.2	-1.8	16.3	34.5		Sk	-26.2	-15.3	-6.9	-0.8	16.3	33.6

*Note > As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Spain

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk : Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/2C	Hot bird 2/6/7A /8	Atlanti cbird 3	Hisp asat 1C,1D			Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/2C	Hot bird 2/6/7A /8	Atlant icbird 3	Hispa sat 1C,1D
		1C,2A	Euro bird 1							1C,2A	Euro bird 1				
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W			42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Albacete wL 1.8 B + 39.0	Az	123.2	137.4	148.6	157.2	185.0	220.4	La Coruna wL 8.4 B + 43.3	Az	119.6	132.7	142.7	150.3	175.0	210.0
	EI	26.3	35.2	39.8	42.3	44.7	36.3		EI	19.5	28.1	32.9	35.6	39.9	35.5
	Sk	-40.5	-31.7	-23.9	-17.5	3.9	30.3		Sk	-39.3	-32.3	-26.2	-21.2	-3.6	21.3
Algeciras wL 5.5 B + 36.2	Az	118.4	-37.2	142.1	150.5	179.2	217.7	Las Palmas wL 15.4 B + 28.1	Az	106.8	116.3	124.3	131.0	158.7	208.9
	EI	25.2	35.1	40.6	43.7	48.1	40.7		EI	20.2	32.3	39.9	44.7	55.2	53.5
	Sk	-45.2	-37.2	-29.7	-23.4	-0.7	29.5		Sk	-57.6	-52.3	-46.8	-41.8	-18.7	25.3
Alicante wL 0.5 B + 38.4	Az	124.1	138.6	150.0	158.9	187.2	222.3	Madrid wL 3.7 B + 40.4	Az	122.3	136.2	146.9	155.1	182.0	217.3
	EI	27.6	36.5	41.0	43.4	45.3	36.0		EI	24.2	33.0	37.7	40.2	43.3	36.0
	Sk	-40.4	-31.2	-23.1	-16.4	5.7	31.9		Sk	-40.1	-31.8	-24.6	-18.6	1.5	27.5
Almeria wL 2.5 B + 36.9	Az	121.4	135.4	146.5	155.3	184.2	221.0	Malaga wL 4.4 B + 36.7	Az	119.6	133.1	143.8	152.3	181.0	218.7
	EI	27.1	36.5	41.6	44.2	47.2	38.4		EI	25.7	35.4	40.7	43.6	47.4	39.6
	Sk	-43.0	-34.2	-26.2	-19.6	3.3	31.6		Sk	-44.2	-35.9	-28.2	-21.9	0.8	30.1
Avila wL 4.7 B + 40.7	Az	121.5	135.2	145.8	153.9	180.4	215.9	Palma de Mallorca eL 2.7 B + 39.6	Az	127.9	143.1	155.0	164.0	191.9	225.2
	EI	23.4	32.2	37.0	39.6	43.0	36.3		EI	29.0	37.1	41.1	43.0	43.5	33.2
	Sk	-40.2	-32.3	-25.3	-19.5	0.4	26.4		Sk	-37.4	-27.6	-19.0	-12.3	9.2	33.2
Badajoz wL 7.0 B + 38.8	Az	118.6	131.7	141.9	149.9	176.8	214.1	Salamanca wL 5.7 B + 41.0	Az	120.9	134.3	144.8	152.8	179.0	214.6
	EI	22.7	32.2	37.5	40.5	45.0	39.1		EI	22.6	31.4	36.3	38.9	42.7	36.5
	Sk	-43.2	-35.6	-28.7	-23.0	-2.5	25.9		Sk	-40.4	-32.7	-25.8	-20.2	-0.8	25.3
Barcelona eL 2.2 B + 41.4	Az	128.4	143.6	155.2	163.9	190.8	223.6	San Sebastian wL 2.0 B + 43.3	Az	125.4	139.7	150.5	158.7	184.4	217.8
	EI	27.5	35.3	39.1	40.9	41.6	32.1		EI	23.6	31.6	35.7	37.8	40.0	32.7
	Sk	-36.0	-26.5	-18.4	-12.3	8.1	31.2		Sk	-36.4	-28.1	-21.0	-15.3	3.2	26.5
Bilbao wL 2.9 B + 43.3	Az	124.5	138.6	149.3	157.4	183.0	216.7	Santa Cruz de la Palma wL 17.8 B + 28.7	Az	105.6	114.9	122.5	128.9	154.7	204.3
	EI	23.1	31.1	35.4	37.6	40.1	33.2		EI	18.0	30.1	37.6	42.5	53.7	53.9
	Sk	-36.8	-28.8	-21.8	-16.3	2.2	25.8		Sk	-57.7	-52.7	-47.7	-43.1	-22.0	21.1
Burgos wL 3.7 B + 42.4	Az	123.3	137.3	147.9	156.0	182.0	216.3	Santa Cruz de Tenerife wL 16.3 B + 28.5	Az	106.4	115.9	123.8	130.4	157.3	207.2
	EI	23.1	31.5	35.9	38.3	41.1	34.3		EI	19.4	31.5	39.0	43.8	54.5	53.5
	Sk	-38.1	-30.1	-23.1	-17.5	1.4	25.9		Sk	-57.5	-52.3	-46.9	-42.0	-19.8	23.6
Cadiz wL 6.3 B + 36.5	Az	117.9	130.8	141.2	149.5	177.8	216.4	Santander wL 3.9 B + 43.5	Az	123.7	137.7	148.3	156.2	181.7	215.5
	EI	24.4	34.3	39.8	43.0	47.6	40.9		EI	22.3	30.5	34.8	37.1	39.9	33.4
	Sk	-45.3	-37.5	-30.2	-24.1	-1.8	28.5		Sk	-37.1	-29.3	-22.5	-17.0	1.2	24.9
Cartagena wL 1.0 B + 37.6	Az	123.2	137.6	149.0	157.8	186.6	222.3	Sevilla wL 6.0 B + 37.4	Az	118.7	131.8	142.2	150.4	178.4	216.3
	EI	27.7	36.8	41.5	44.0	46.2	36.9		EI	24.2	33.9	39.3	42.3	46.7	39.9
	Sk	-41.5	-32.3	-24.1	-17.4	5.2	32.2		Sk	-44.2	-36.3	-29.1	-23.1	-1.3	28.0
Cordoba wL 4.8 B + 37.8	Az	119.9	133.3	144.0	152.3	180.3	217.5	Valencia wL 0.7 B + 39.3	Az	124.5	139.0	150.3	159.5	186.8	221.6
	EI	24.8	34.3	39.5	42.3	46.2	38.9		EI	26.9	35.6	40.0	42.3	44.3	35.3
	Sk	-43.2	-35.1	-27.7	-21.5	0.3	28.8		Sk	-39.6	-30.2	-22.1	-15.7	5.2	30.9
Gijon wL 5.7 B + 43.5	Az	122.1	135.7	146.0	153.8	179.0	213.2	Valladolid wL 4.7 B + 41.6	Az	122.0	135.7	146.3	154.3	180.4	215.4
	EI	21.1	29.4	33.9	36.4	39.8	34.2		EI	22.8	31.5	36.1	38.6	41.9	35.5
	Sk	-37.9	-30.4	-23.9	-18.7	-0.7	-0.7		Sk	-39.3	-31.5	-24.5	-18.9	0.3	25.7
Granada wL 3.6 B + 37.2	Az	120.6	134.3	145.2	153.8	182.3	219.4	Vigo wL 8.7 B + 42.2	Az	118.8	131.8	141.8	149.4	174.5	210.2
	EI	26.1	35.6	40.7	43.5	46.9	38.8		EI	19.8	28.7	33.7	36.5	41.1	36.7
	Sk	-43.3	-34.8	-27.1	-20.6	1.8	30.4		Sk	-40.5	-33.5	-27.3	-22.4	-4.1	21.8
Hospitalet de Llobregat eL 2.1 B + 41.4	Az	128.3	143.4	155.0	163.7	190.7	223.5	Zaragoza wL 1.0 B + 41.6	Az	125.4	139.9	151.0	159.4	186.0	219.9
	EI	27.5	35.3	39.1	40.9	41.7	32.1		EI	25.3	33.5	37.7	39.9	41.8	33.6
	Sk	-36.0	-26.6	-18.5	-12.1	8.0	31.1		Sk	-37.5	-28.7	-51.7	-15.1	4.5	28.6
Ibiza eL 1.4 B + 38.9	Az	126.3	141.2	153.0	161.9	190.2	224.2								
	EI	28.6	37.1	41.3	43.4	44.5	34.5								
	Sk	-38.9	-29.1	-20.7	-13.9	7.9	32.9								

*Note > As for a city name missing in the table, you can visit to www.self-sat.com and find it from the column of Satellite finder under Customer service.

Switzerland

eL=East Longitude wL=West Longitude B=Latitude Az=Azimuth EI=Elevation Sk : Skew

		Turk sat	Astra 2A/2B/2D	Astra 1E-1H /1KR/ 2C	Hot bird 2/6/7A /8	Atlanticbird 3	Hispasat 1C,1D
		1C,2A	Euro bird 1				
		42.0 E	28.2 E	19.2 E	13.0 E	5.0 W	30.0 W
Basel eL 7.6 B + 47.6	Az	137.1	153.0	164.5	172.7	196.9	226.2
	EI	26.0	31.8	34.2	35.1	34.0	24.4
	Sk	-27.3	-17.8	-10.4	-4.9	11.3	29.1
Bern eL 7.4 B + 47.0	Az	136.7	152.6	164.1	172.4	196.8	226.3
	EI	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-27.9	-18.3	-10.8	-5.2	11.3	29.5
Biel eL 8.2 B + 46.5	Az	137.3	153.4	165.0	173.4	198.0	227.4
	EI	27.2	33.1	35.5	36.4	35.0	24.9
	Sk	-27.8	-18.0	-10.3	-4.5	12.2	30.4
Genf eL 6.2 B + 46.2	Az	135.0	150.7	162.2	170.6	195.3	225.3
	EI	26.3	32.6	35.3	36.4	35.7	26.2
	Sk	-29.3	-19.8	-12.2	-6.5	10.6	29.5
Köniz eL 7.4 B + 46.9	Az	136.7	152.5	164.1	172.4	196.8	226.3
	EI	26.4	32.3	34.8	35.8	34.7	25.0
	Sk	-28.0	-18.4	-10.8	-5.2	11.4	29.6
Lausanne eL 6.7 B + 46.5	Az	135.7	151.4	162.9	171.3	195.9	225.7
	EI	26.4	32.5	35.1	36.1	35.3	25.7
	Sk	-28.7	-19.2	-11.6	-6.0	10.9	29.6
Locarno eL 8.8 B + 46.2	Az	137.8	154.0	165.7	174.2	198.8	228.1
	EI	27.7	33.6	35.9	36.7	35.2	24.8
	Sk	-27.7	-17.7	-9.8	-4.0	12.9	31.0
Luzern eL 7.9 B + 47.0	Az	137.2	153.2	164.7	173.1	197.4	226.8
	EI	26.6	32.4	34.8	35.7	34.5	24.6
	Sk	-27.6	-17.9	-10.4	-4.7	11.8	29.8
Sankt Gallen eL 9.4 B + 47.4	Az	139.0	155.2	166.8	175.1	199.2	228.1
	EI	27.0	32.5	34.7	35.4	33.7	23.6
	Sk	-26.4	-16.5	-8.9	-3.3	12.9	30.3
Thun eL 7.6 B + 46.8	Az	136.8	152.8	164.3	172.7	197.1	226.6
	EI	26.7	32.6	35.0	36.0	34.8	25.0
	Sk	-28.0	-18.3	-10.7	-5.1	11.6	29.8
Winterthur eL 8.8 B + 47.5	Az	138.4	154.4	166.0	174.2	198.4	227.4
	EI	26.6	32.2	34.5	35.3	33.8	23.9
	Sk	-26.7	-16.9	-9.4	-3.8	12.3	29.9
Zürich eL 8.6 B + 47.4	Az	138.1	154.1	165.7	174.0	198.1	227.3
	EI	26.6	32.3	34.6	35.4	34.0	24.0
	Sk	29.8	-17.1	-9.6	-4.0	12.2	29.8

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