



MOBILSAT

pentagonal



Next generation satellite antennas
for motorhomes.
When Shape is Substance.

 **MOBILTECH**

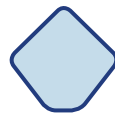
New Mobilsat Pentagonal range: technology and reliability

Mobil Tech's new **Mobilsat Pentagonal** range is among the most advanced satellite antennas for motorhomes, designed for those who do not want to compromise on the quality of the received signal.

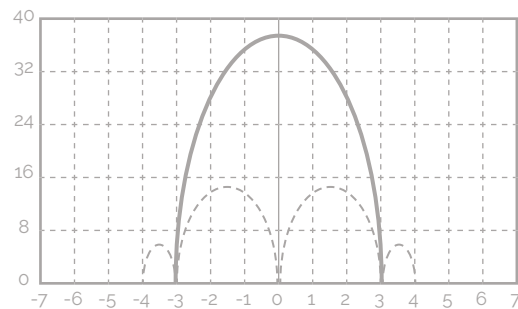
All-Italian design: the pentagonal shape of the dish is essential for **excellent reception** over a wide area. Mobilsat Pentagonal is able to receive **high quality** signals, eliminating interference from unused areas on round-shaped dishes. This shape improves and amplifies the reception of the signal, without increasing the size of the dish itself. Its extreme compactness also optimises the space required on the roof of the motorhome.

Polar diagram single LNB systems

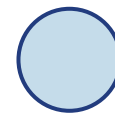
Mobilsat Pentagonal dish



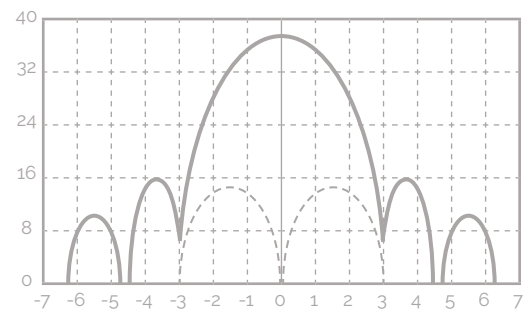
First side lobes
at -34dB



Traditional dish



First side lobes
at -23dB



Advantages

Excellent reception

The aluminium dish is designed and patented for new 4K UltraHD signals. The pentagonal shape allows a high quality signal, reducing interference of the traditional round-shaped dishes and offering an excellent aerodynamic profile.

High precision

With a single touch, the antenna positions itself on the desired satellite, automatically switching from the last position to the new search and stand-by function. The system performs a self-diagnosis each time it is switched on, so that any problems can be resolved. In addition, the antenna realigns itself to the satellite very quickly, also in the event of small movements of the vehicle.

Extreme robustness

The structural parts are made of a resin with high percentage of glass and carbon fibre (used in the aeronautical and automotive industry), which provide extreme flexibility and 30% higher resistance than die-cast aluminium.

Excellent resistance

State-of-the-art materials and low mechanical tolerances offer extraordinary wind resistance performance, up to 150km/h.

Ease of use

The interface of the control panel with touch-screen display is simple and user-friendly. It is ready to use right from the initial start up.

Maximum silence

Motors are installed on *Silent Block* for maximum silence.

New Pentagonal range: latest generation pentagonal-shaped dish

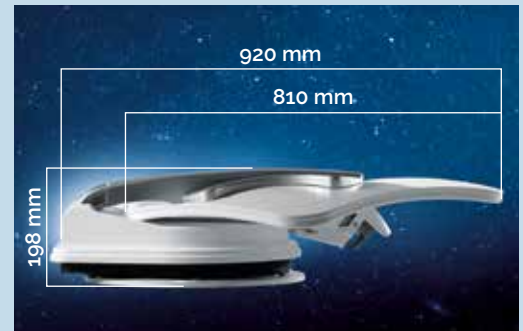
All the Mobilsat Pentagonal automatic satellite antennas have some advanced standard features, such as the management of 20 satellites (16 preinstalled and 4 freely programmable) and "One Touch" operation, satellite update by the end user and practical and elegant touch-screen panel. The antennas are equipped with electronics and a specific dish for the new DVB-S2 signals, and are also designed to receive the new 4K UltraHD and 3D channels. The system can also be updated free of charge via the microSD card slot in the display.



Dimensions

Dish: 624 x 624 mm

Max. dimensions of the antenna when closed: 920 x 810, h 198 mm



Maximum material reliability

Steel worm screws and chrome-aluminium-bronze sprocket ensure long-term precision, unlike plastic gears. It is the only antenna that, by adjusting the play between the worm gear and the sprocket, does not need to be replaced over the years, due to natural wear and tear.

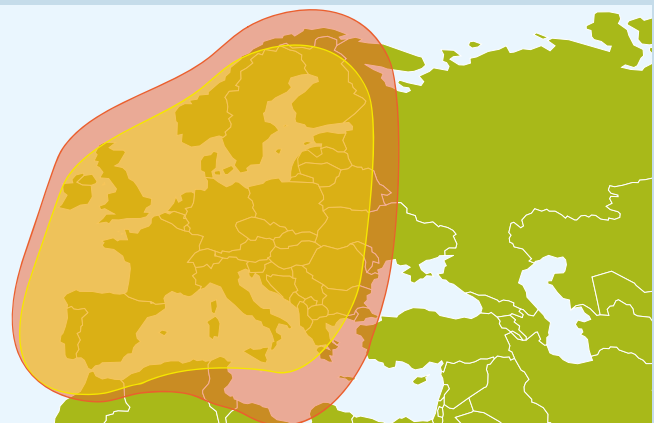


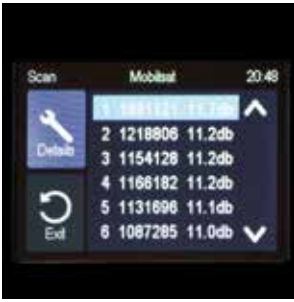
Satedit Function

This innovative function allows each frequency to be entered in the KU band. In this way, 4 new satellites can be added, in addition to the 16 already inserted.



- Hot Bird 13°E
- Astra 19°E





Smart Scan Function

The new Smart Scan function allows updating or adding new satellites in the KU band, from any part of the world covered by the satellite and without knowing its transmission data. After pointing to the desired satellite, in less than 10 minutes the system downloads the complete list of transponders and displays the data of the 30 most powerful ones. It is now possible to select the preferred transponder and use it for subsequent automatic pointing.

“Skew” adjustment



Thanks to the use of advanced technologies, the area in which it is possible to receive a satellite signal is constantly increasing. All satellites that transmit programmes dedicated to European users “point” to central Europe. However, when the reception system is located outside this specific area, the antenna looks at the satellite “sideways”. This effect is called “skew angle” or “polarisation angle” and is most noticeable in areas such as Portugal, southern Spain, Morocco, Greece, Turkey and the Canary Islands (to an extreme extent). Normally, the satellite reception system is able to compensate for this effect without any problems, but in some cases it is necessary to manually re-position the LNB (receiving part of the antenna), which has to be rotated manually by a few degrees.

Touch screen Display

The entire **Mobilsat Pentagonal** range features a practical control panel with a colour touch-screen display and a user-friendly interface with large icons that is ready to use right from the initial start-up.

• MAXIMUM SIMPLICITY

With a single touch of the display, the antennas of the **Mobilsat Pentagonal** range are positioned on the desired satellite, automatically switching from the last position to the new search and stand-by function. The system is programmed to perform a self-diagnosis every time it is switched on. If an error is detected, the touch-screen display shows the cause and provides tips on how to fix it.

• AUTOMATIC OR MANUAL SEARCH MODE

The automatic search function is activated when the satellite antenna is switched on, while in the event of poor reception or obstacles preventing correct reception from the satellite, the manual search can be activated.

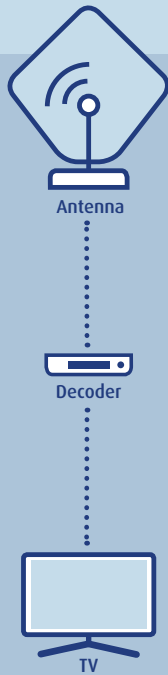
• FINE POINTING

This function allows the antenna to realign itself to the satellite very quickly. With the new signals, which require more and more precision, fine pointing is very useful, also in the event of small movements of the vehicle.



The essential choice

Ideal for those who only need one decoder at a time, even on multiple TV points. It allows viewing one channel at a time with maximum signal reception quality.



Standard configuration with one decoder for one TV point.

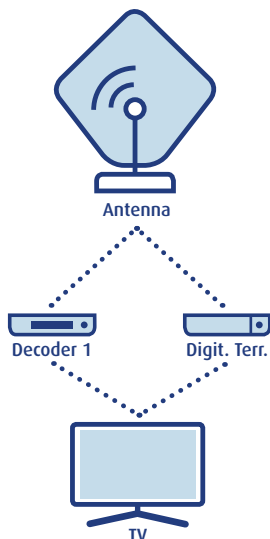
3 OTHER OPTIONAL CONFIGURATIONS:

- Connection of 2 decoders to be used alternately for viewing the same channel on 2 TVs.
- Connection of 2 decoders to be used alternately on one TV.
- Connection of one decoder for viewing the same channel on 2 TVs.

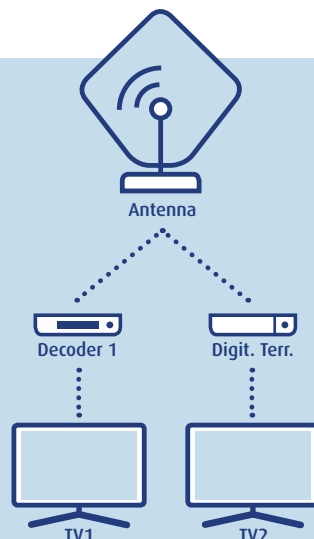


Two signals, one antenna

Ideal for those who want to receive both satellite and terrestrial programmes with just one TV in their motorhome. The 20 dB amplified digital terrestrial antenna is inserted into the motor cover of the antenna. This configuration makes it possible to receive both satellite and digital terrestrial signals using the same antenna, thus optimising space on the roof of the motorhome (and saving money compared to solutions with two separate devices). The antenna wiring is already set up with the second signal cable, for quick and easy installation.



Connection of one decoder sat and one terrestrial decoder to one TV.



Connection of one decoder sat and one terrestrial decoder to two TVs.

2 OTHER OPTIONAL CONFIGURATIONS:

- Creation of 3 TV points, two of these for watching the same satellite channel, the third independent via the terrestrial decoder.
- Creation of 2 TV points, one for viewing only the satellite signal, the other with satellite and terrestrial transmissions. The satellite channel viewed on 2 TVs will be the same.

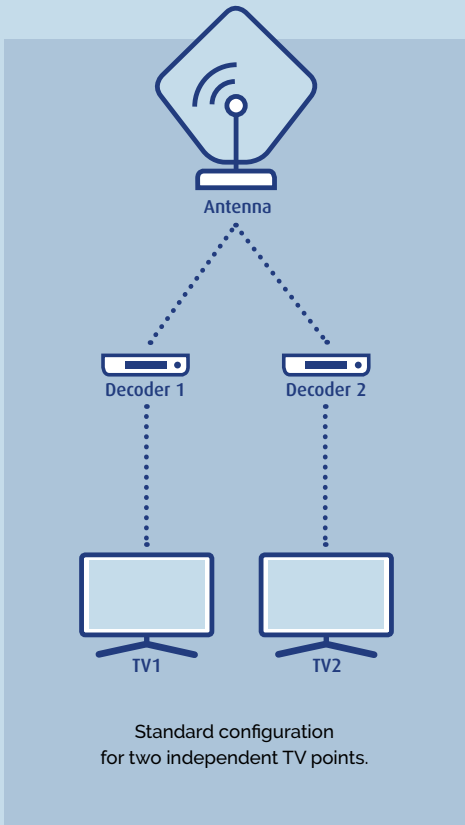


If the TV is not equipped with an active 5V output, it is necessary to purchase this accessory separately.

Mobilsat Penta TWIN

Two channels for two TV points

This is for those who have two independent TV points on board the motorhome. It allows two different channels to be viewed on two televisions. The antenna wiring is already set up with the second signal cable for quick and easy installation.



2 OTHER OPTIONAL CONFIGURATIONS:

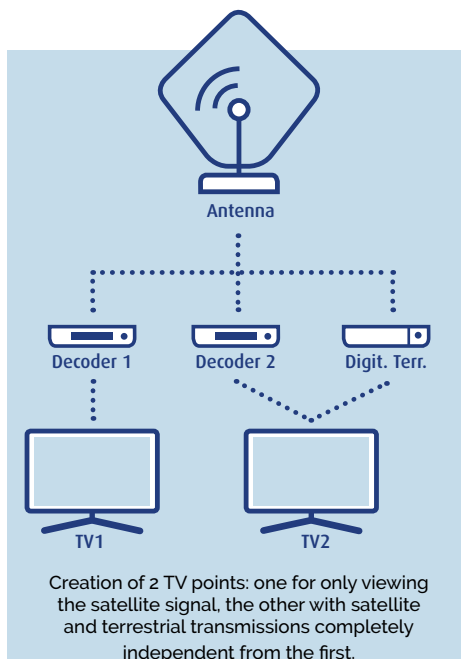
- Connection of two decoders per TV point to be used alternately.
- Connection of two decoders with 4 independent TV points in pairs.



Mobilsat Penta TWIN-T

The all-in-one-antenna

Mobilsat Penta Twin-T is the uncompromising satellite antenna that offers everything in one kit. Supplied with LNB Twin kit and digital terrestrial antenna already installed, for up to 3 independent TV points. The antenna wiring is already set up with the second and third signal cable for quick and easy installation.



2 OTHER OPTIONAL CONFIGURATIONS:

- Creation of 3 independent TV points: 2 via satellite decoder, 1 via terrestrial decoder.
- Creation of 3 TV points: 2 for viewing only the satellite signal, 1 for independent satellite and terrestrial transmissions. The same channel is viewed on TVs connected via the switch.

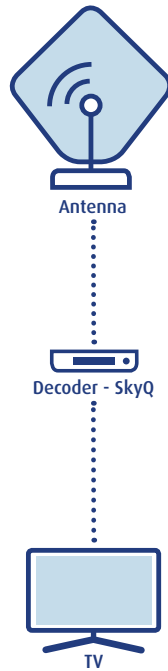


If the TV is not equipped with an active 5V output, it is necessary to purchase this accessory separately.

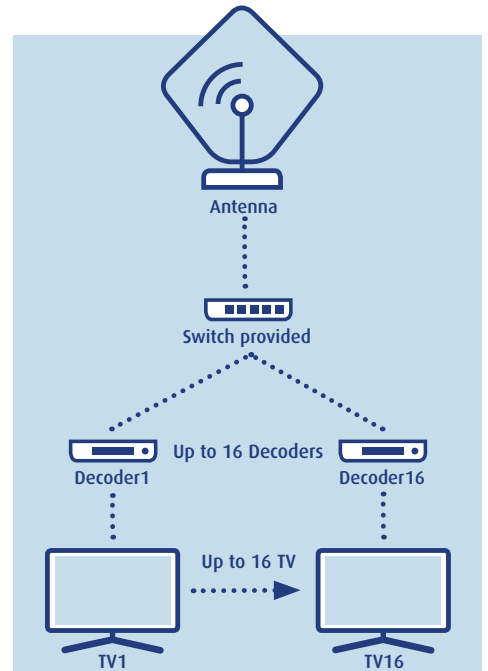
Mobilsat Penta dCSS

The antenna for those who don't settle for less

For users with large motorhomes and several independent televisions on board, or who need SkyQ. Allows connecting up to 12 dCSS decoders and 4 SCR decoders, or the new SkyQ Platinum and Black decoder. The signal cable has specific connectors and switches to connect up to 4 decoders, expandable in cascade. The antenna wiring is already set up with the second signal cable for quick and easy installation.



Connection of SkyQ decoder including all functions for recording and viewing 4K Ultra HD and 3D channels.



Connection of up to 16 decoders via dCSS switch in cascade for 16 independent TV points.

Mobilsat Accessories



DVB-T code MSP-01-03005 remote power supply

Power supply for DVB-T antenna to be used in case of a digital terrestrial decoder or TV without active 5V output.

For Penta Sat-T and Penta Twin-T models.



Splitter PayTV/TivuSat, code AC-01-003

Allows connecting two decoders with a single antenna signal.

The device automatically selects the decoder used. No loss of signal or frequency.



2-way bidirectional splitter, code AC-02-001

2-way bidirectional splitter for connecting two devices to one TV. For example, it is possible to connect two decoders with one HDMI output to one TV or one decoder with one HDMI output to two TVs alternately at the touch of a button. No power supply required, dimensions 50 x 50 x 20 mm.



2-way 1x2 amplified splitter, code AC-02-006

2-way 1x2 amplified splitter for connecting one device to two TVs at the same time. For example, one decoder can be connected to two TVs. Supports input cables up to 10 m and output cables up to 15 m. 12V power supply cable included, consumption of only 20mA.



HDMI 4x2 signal distributor, code AC-02-002

Signal distributor with 4 inputs and 2 outputs for connecting and viewing multiple devices, even simultaneously on two TVs. Equipped with switching via remote control or manual selector. 12V power supply cable included, dimensions 190 x 95 x 21 mm.



1m/3m/5m HDMI cables

1m/3m/5m HDMI High-Speed cable with gold-plated connectors and double insulation for HD connection of decoders, TVs and hard disk.



Technical data

MOBILSAT PENTAGONAL SATELLITE ANTENNA

MATERIAL	Composite resin with glass and carbon fibre
POWER SUPPLY	10 - 30 V
CONSUMPTION IN STAND-BY	44 mA
TYPICAL CONSUMPTION DURING SEARCH	2 A
MAXIMUM CONSUMPTION	5 A
SATELLITE SEARCH TIME (TYPICAL)	60 sec.
PRE-INSTALLED SATELLITES	16
PROGRAMMABLE SATELLITES	4
WEIGHT	13.8 Kg
MAXIMUM SPACE OCCUPIED WHEN CLOSED	920 x 810 - H 198 mm

DISH

DESIGN	Patented parabolic pentagon
DIMENSIONS	624 x 624 mm
MATERIAL	Powder-coated aluminium
EFFICIENCY	>70%
GAIN AT 10.95 GHz	36.5 dB
LNB	HD-3D with LTE filter
SET UP INCLUDED	Pre-wired second signal cable



5-YEAR WARRANTY

see terms and conditions on
www.mobiltech.it/en-mobiltech/



CE CERTIFICATIONS:

- electromagnetic compatibility directive: 2014/30/UE (EN 55022:2010 - EN 55024:2010)
- machinery directive: 2006/42/CE (En 12100:2010 - En 13857:2008 - En 349:1993+A1:2008)

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