



MEGASAT



Caravanman Kompakt 3

User manual

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1. Introduction

1.1 Safety Information



Please read the user manual carefully before starting the installation. If you have already installed similar products, the procedure may not be the same as for this product.

• Improper handling can cause serious damage to this device.

Responsible persons may also be held responsible for any further damage to the device.

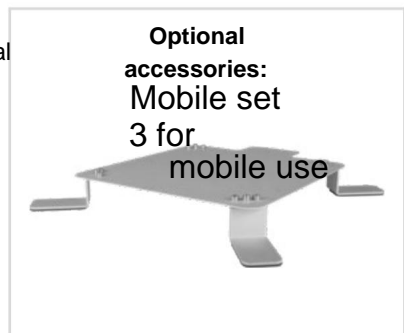
• Before commissioning, check the correct operating voltage of your power supply. For information on the device's operating voltage, refer to the specifications in this user manual.

• The control unit must not be exposed to dripping water, splashing water or other liquids.

• Do not let children play with films or other packaging materials, there is a risk danger.
danger of suffocation.

1.2 Delivery

• 1x Caravanman Kompakt 3 •
1x control unit including power cable • 1x coaxial
cable (1 m) • 1x coaxial
cable • 1x roof
passage (10 m) • 1x
user manual



Item number: 1201000

1. Introduction

1.3 System Components

Open the box and remove the control unit, connection cables and packaging material. Lift the antenna straight up out of the box. Never turn it upside down!



ATTENTION!

Never touch the mirror directly when removing the antenna from the box . Lift the antenna by the base plate.



Antenna unit The

high-performance antenna and elevation angle of 15-62° allow the best possible reception in the most important holiday destinations in Europe.

Control unit The



control unit is used to select and control satellites. It is connected between the antenna and the TV (receiver) and supplies power to the antenna.

After successful adjustment, the device can turn off.

Note:

Caravanman Kompakt 3 Twin has an additional connection for a second TV or receiver. You can find the correct connection of the components in the wiring diagram in this user manual.

2. Installation

2.1 Installation on the roof



We strongly recommend that the installation be carried out by your specialist dealer or specialist service! Also note that the height of the vehicle changes accordingly due to the antenna! Follow the individual points of the assembly instructions carefully!

General information

Provide a suitable workplace, a garage/hall is better than an outdoor area. The ambient temperature for installation must be between +5°C and max. +25°C. Do not work in direct sunlight. Observe work regulations when handling chemical products. Ensure the necessary work hygiene.

Preparation 1. Make sure the roof of your vehicle is stable enough. If the stability of the roof is insufficient or questionable, attach a metal plate with a thickness of approx. 2 mm and dimensions of approx. 100 x 100 cm to the outer shell of the roof. For more information, contact the vehicle manufacturer.

2. Check that all parts are present.

3. Place the antenna at the later mounting location and align it so that the mirror and LNB unit are facing the rear of the vehicle. Make sure that the mounting surface is level and that no roof structures obstruct it. Always follow the installation dimensions in this user manual. The minimum distance from the air conditioning unit should be 30 cm.

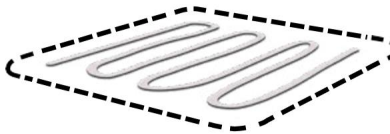
4. Clean the mounting surface with a suitable cleaning agent and a non-woven cloth to remove dirt. Then mark the base of the antenna with a pen.



2. Installation

5. Lightly roughen the drawn areas and the feet with sandpaper (120 grit) and clean the surface again with the cleaning agent and let the cleaning agent work for about 10 minutes. **CAUTION:** Do not touch the surfaces afterwards.
6. Mount the roof grommet (preferably flush with the front part) on the roof of the vehicle. Make sure that water and moisture (e.g. rain or splash water) do not enter the drilled hole. Make sure that the cables are not bent too much to avoid signal loss and cable damage (smallest bending radius max. 5-7 cm).

2.2 Bonding instructions

1. Prepare the glue for assembly.
 2. Now apply the glue to the underside of the antenna base in serpentine lines so that the glue cures well all the way to the inside.
- 
- The diagram shows a trapezoidal antenna base with a dashed outline. Inside the outline, there are several parallel, wavy lines representing the application of adhesive in a serpentine pattern across the surface.
3. Now immediately (within 5 minutes after applying the glue) place the antenna on the marked field. Press the foot lightly and evenly and secure the antenna so that it does not slip, e.g. with adhesive tape. There must be at least 2 mm of adhesive between the antenna base and the surface after pressing. The glue is cured after a maximum of 48 hours at a temperature of +18 °C and a relative humidity of 50%. If the humidity is low at the time of installation, spray some water in the air around the antenna after applying the adhesive.
 4. Immediately remove the leaked adhesive with a spatula or similar method and clean the contaminated surfaces with a cleaning agent and a woolen cloth.
 5. For safety reasons, you can additionally attach the base of the antenna. To do this, drill the existing holes in the base of the antenna into the roof of the vehicle and fix it with a screw and a lock nut. To prevent the freshly glued foot from slipping, wait until the glue hardens.
 6. After assembly is complete and the adhesive has cured, a silicone joint can be made around the base of the antenna.

2. Installation

2.3 Indoor installation

1. The coaxial cable is laid inside the vehicle.
2. When choosing the location of the control unit and satellite receiver, be sure to that both devices are in a dry and protected place.
3. Do not place the control unit and satellite receiver near heat sources and ensure adequate ventilation.
4. The basic options for connecting the antenna system are listed below:
 - ÿ Connect the power cable (red-black cable) of the control unit to the vehicle battery with a fuse (7 A) to prevent the cable from catching fire in the event of a short circuit. The yellow cable connects to the positive of the vehicle ignition and is also protected by a 7 A fuse (this cable should only be connected if the antenna is to be automatically retracted after the engine is started). The remaining black wire is connected to the appropriate negative terminal of the ignition system (ground).
 - ÿ Connect the coaxial cable from the antenna to the control unit. (10 m coaxial cable with F-plug in "ANTENNA")
 - ÿ Connecting the control unit to a TV or satellite receiver (1 m coaxial cable with F-plug from "RECEIVER" to satellite receiver)

Note: Use

the **Caravanman Kompakt 3 Twin** to connect the second coaxial cable from the antenna directly to the second TV or satellite receiver.

2. Installation

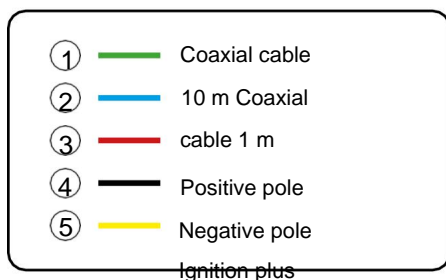
2.4 Connecting components

Ignition plus After

turning the key in the ignition, the antenna automatically moves to the inserted position. This function is guaranteed only if the control unit is switched on and cable **4** is connected to the negative pole and cable **5** to the positive of the vehicle ignition.

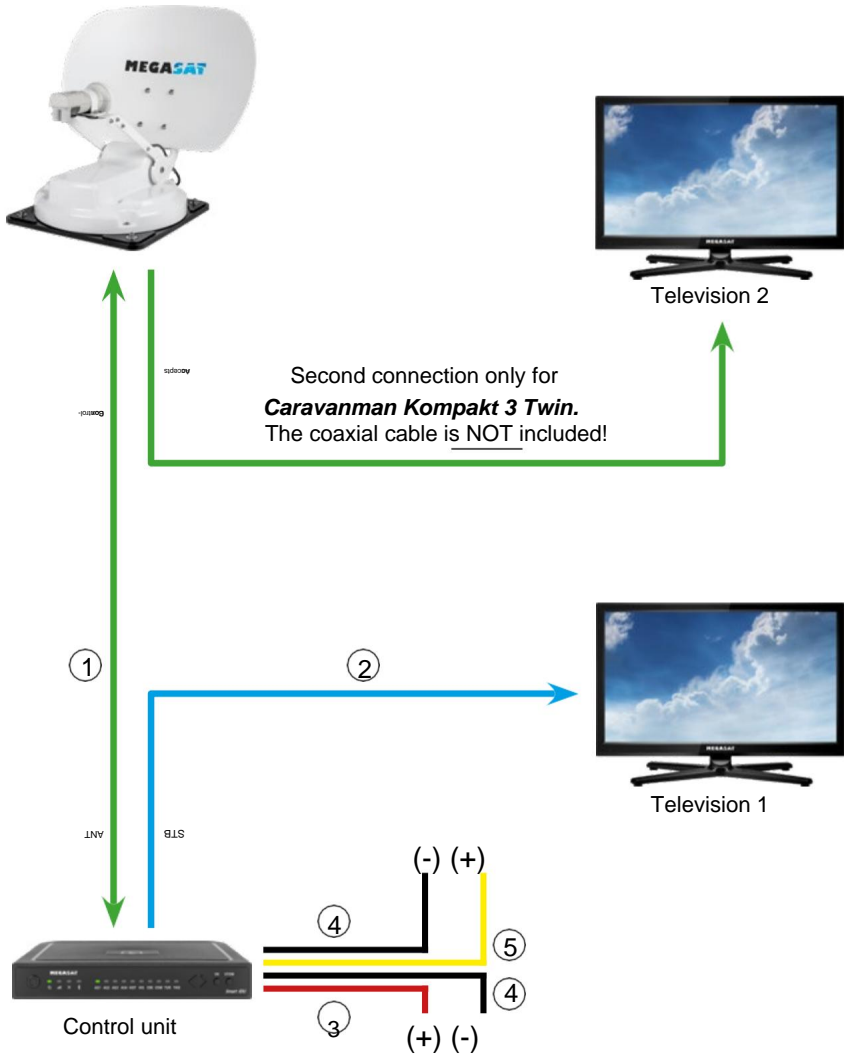
DC 12 V

power supply via battery (positive pole of permanent RED power supply) or optional 230 V / 12 V DC source (without chargers). Make sure that a current of at least 5 amps is guaranteed.



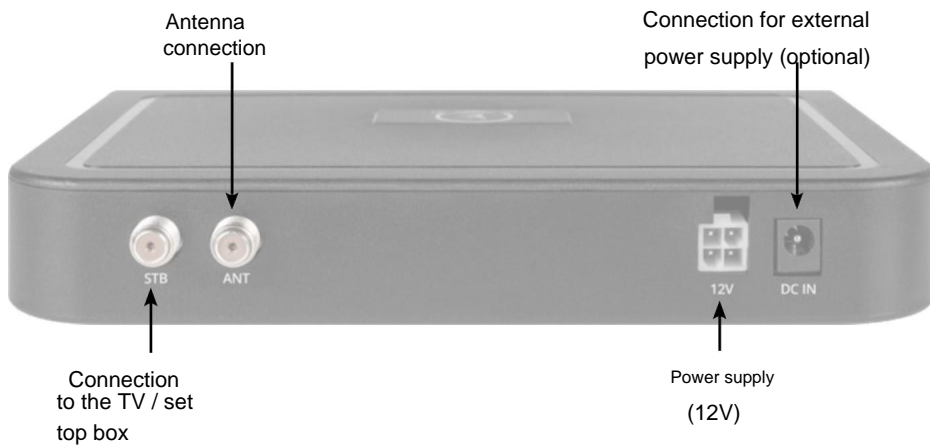
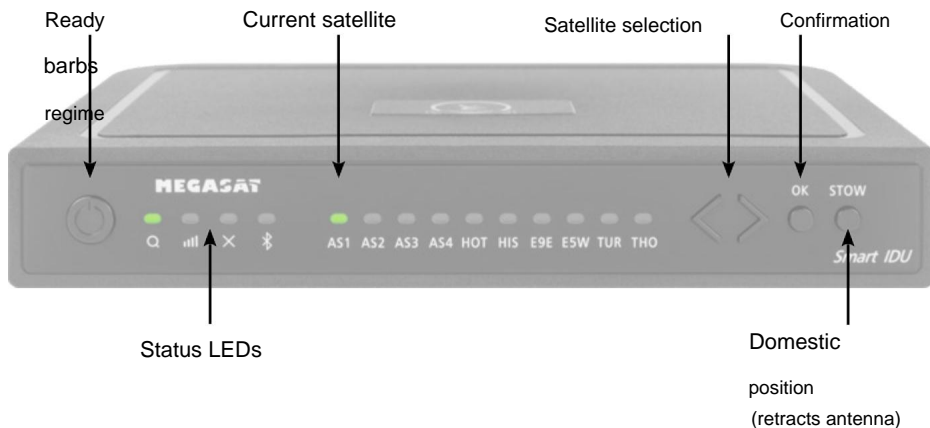
Warning: Always connect the control unit using a 7 amp fuse cable with a thickness of at least 2.5 mm². Never connect to a car battery without a fuse.

2. Installation



2. Installation

2.5 Control unit



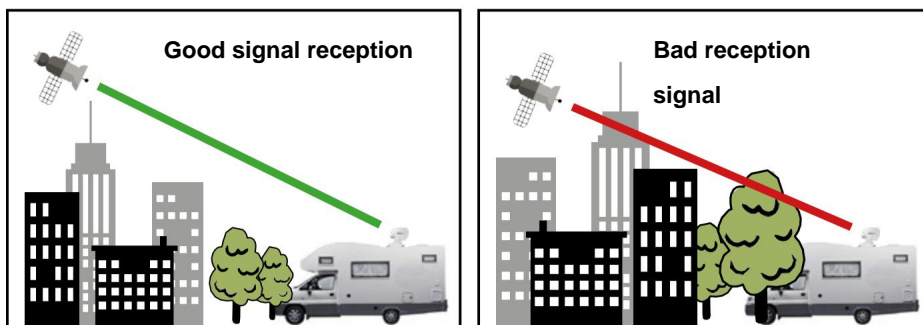
Warning: Always connect the control unit using a 7 amp fuse cable with a thickness of at least 2.5 mm². Never connect to

2. Installing a car battery without a fuse.

2. Installation

2.6 Satellite Broadcasting

Direct Broadcast Service (DBS) satellites broadcast audio, video and data information from satellites located 22,000 miles in space. A receiving station, such as an antenna, should contain an antenna and a satellite receiver that receives the signals and processes them for use in consumer audio and video equipment. The system requires a clear view of the satellite for the best possible signal reception.





















Objects such as tall lighthouses, bridges and large ships that block this view will cause signal loss. The signal is quickly restored as soon as the antenna has a clear line of sight again. Heavy rain, clouds, snow or ice can also affect the quality of signal reception. If the satellite signal is lost due to jamming or adverse weather conditions, services from the receiver will be lost (image freezes on frame and may disappear). As soon as the satellite signal strength is high enough again, the receiver will again provide the required program services.

3. Satellite search using the control unit











3.1 Designation of relevant LEDs and buttons

 <p>Search-LED Blinking during satellite search</p>	 <p>Satellite LED Astra 4 (4° East)</p>
 <p>Reception-LED Lights up when a satellite is found</p>	 <p>Satellite LED Hotbird (13° East)</p>
 <p>Error LED Lights up in the event of a fault</p>	 <p>Satellite LED Hispasat (30° west)</p>
 <p>Bluetooth LED Lights up when connected</p>	 <p>Satellite LED Eutelsat 9 B (9° East)</p>
 <p>Satellite LED Astra 1 (19.2° East)</p>	 <p>Satellite LED Eutelsat 5 West (5° West)</p>
 <p>Satellite LED Astra 2 (28.2° East)</p>	 <p>Satellite LED Turksat (42° East)</p>
 <p>Satellite LED Astra 3 (23.5° East)</p>	 <p>Satellite LED Thor (0.8° west)</p>
 <p>Emergency button Switch the control unit on/off</p>	 <p>OK button Confirms the satellite selection</p>
 <p>Arrow button Change of satellites</p>	 <p>STOW button Moves the antenna to its home position</p>

3. Satellite search using the control unit



3.2 Satellite search

1.		Turn on the control unit with the standby button.
2.		The LED blinks green during the search.
3.		The LED of the last used satellite flashes green.
4.		To change the satellite, you need to change it using the arrow keys. within approximately 3-5 seconds while the LEDs are flashing. A later change is only possible if the antenna has previously found a satellite.
5.		Confirm the satellite selection with the OK button or wait 3-5 seconds until the satellite is automatically registered.
6.		After finding the selected satellite, the reception light will light up in orange.
7.		If the selected satellite was not found, the Error indicator will light up LED red.
8.		After a successful search, you can turn off the control unit again at the address standby key.

Note:

If you want to start searching in another location, simply press the Standby button and search for the last selected satellite.

Inserting the antenna back into the initial position

1.		If necessary, turn on the control unit with the standby button mode.
2.		Press the STOW button to retract the antenna.

4. Mobile application for antenna control



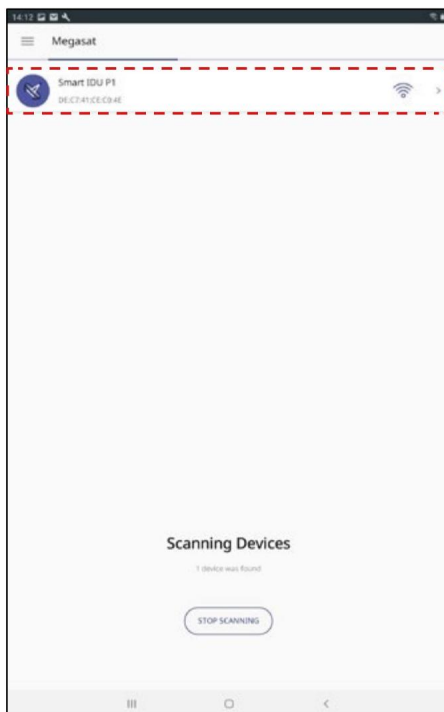
Using the app, satellites can be changed via a smartphone or tablet. Controller firmware updates can also be made in the future. The app is available for free in the App Store (iOS) or Google Play Store (Android).

Look for the name "Megasat" in the relevant store .

Note: Make sure the feature is enabled on your mobile device Bluetooth® and that you are no more than 10 meters from the control unit.

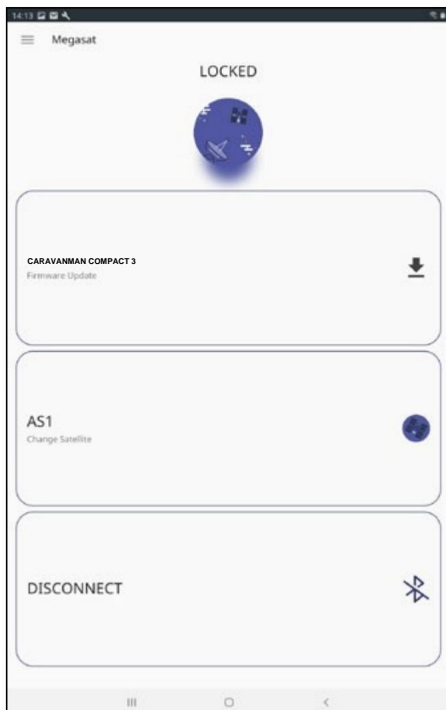
4.1 Connecting the control unit to the mobile device

1. After opening the application, the following splash screen will appear.
2. Now turn on the control unit. The control unit name will then appear in the selection menu. Click on it.



4. Mobile application for antenna control

3. Various options are now available in the main application interface:



Antenna firmware update

Change of satellites

Disconnecting the connection Bluetooth®

4. Mobile application for antenna control

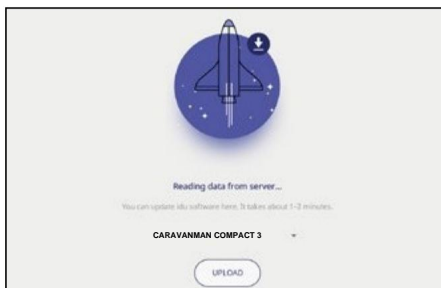
4.2 Antenna Firmware Update

1. Click the button to open the update menu.



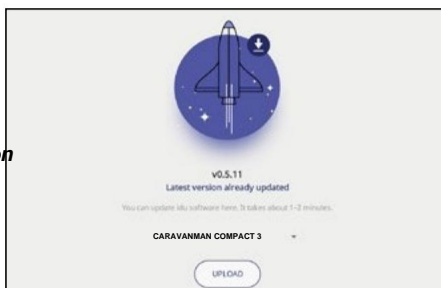
2. The application will check if it is newer firmware versions currently available:

C the ...data from the server...



3. If a new one is not available firmware, the current version number and the following message will be displayed:

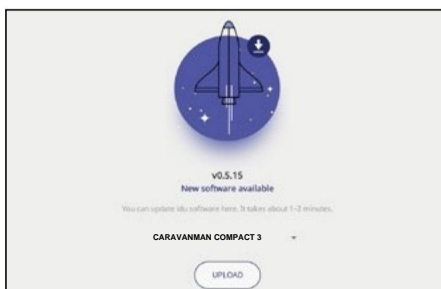
Newly j more the version has been updated...



4. If a new one is available firmware, the new version number and the following message will be displayed:

New software is available

Then click the **"Upload" button**.
update the antenna.



4. Mobile application for antenna control

4.3 Change satellite

1. Click the button to open list of satellites.



2. Select the desired satellite.

After approximately 3-5 seconds, the satellite will be searched for automatically.

AS1 Astra 1 (19.2° East)

AS2 Astra 2 (28.2° east)

AS3 Astra 3 (23.5° east)

AS4 Astra 4 (4°

East) **HOT** Hotbird (13°

East) **HIS**

Hispasat (30°

W) **E9E**

Eutelsat 9 B (9°

East)

E5W Eutelsat 5 West (5° West)

TUR Türksat (42° east)

THO Thor (0.8° west)



Note:

Changing the satellite is only possible if the antenna has previously found the satellite.

4.4 Disconnection

Bluetooth®

Click the button to disconnect the Bluetooth® connection between the mobile device and the controller.



5. Problem solving

No satellite signal Objects

such as trees, bridges and large houses located in the angle of incidence of the satellite cause signal loss. If the satellite signal is lost due to adverse weather conditions, the current program of the TV or receiver will be interrupted (the image will be pixelated, frozen or disappear). As soon as the weather conditions allow good reception again, the TV picture will be restored.

Is the antenna dirty?

Heavy soiling of the cover can cause reception problems.

Is everything properly plugged in and turned on?

Check that the TV and receiver are properly connected and that the receiver is correctly set for satellite reception. Are all the cables properly connected and the connectors firmly screwed onto the coaxial cable? Also check that the coaxial cable is not twisted.

Satellite area

The satellites are located in fixed positions above the equator in orbit.

In order to receive TV signals, the reception location must be inside the track. Use the diagram to check if your location is within range of the satellite. Reception interference may occur in the peripheral areas of the track.

The satellite frequency of the TV channel has been changed

The TV station sometimes changes its frequency, which then no longer corresponds to the frequency in the receiver. Ask for the current channel frequency.

Controller firmware is out of date.

If the transponders on the satellite are changed, the antenna may no longer be able to find the satellite. Update the controller firmware to get the latest transponder information.

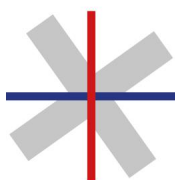
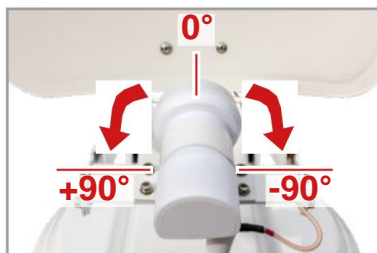
The mobile application does not connect to the controller Make sure that the Bluetooth® function is turned on on your mobile device and that you are in the immediate vicinity of the control unit (max. 10 meters).

6. Einstellwerte für den Skew

Skew-Einstellungswerte für europäische Hauptstädte

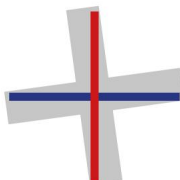
Signale in vertikaler (rot) und horizontaler (blau) Linie haben einen Versatz von genau 90° zueinander. Durch die unterschiedliche Position der Satelliten, abhängig von Ihrem Standort, ist es möglich, dass die Signale nicht genau vertikal und horizontal auf den LNB treffen.

Um dieses anzupassen, müssen Sie den LNB in die richtige Lage zu dem aussendeten Signal bringen. Diese Anpassung am LNB wird als "Skew Einstellung" bezeichnet. Die folgende Abbildung zeigt Ihnen die optimal Einstellung des LNBS. Je genauer die Einstellungen, desto besser der Empfang.



not good

income



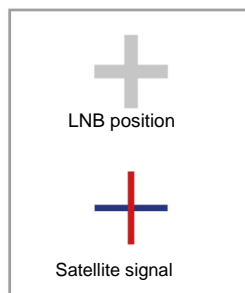
good

income



the best

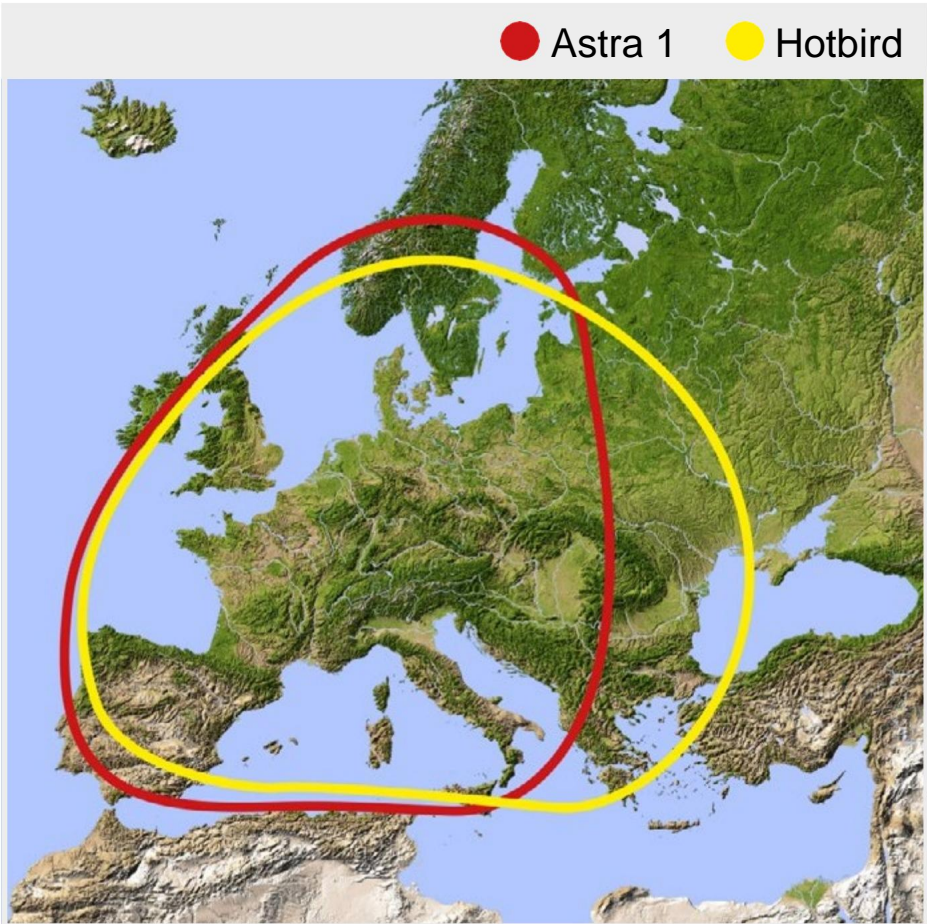
income



Earth	City	Astra 2	Astra 3	Astra 1	Hotbird	Astra 4	Thor	Hispasat	Eutelsat 5 +41.0
Bulgaria	Sofia	+1.7	+6.8	+11.4	+11.0	+19.0	+24.0		+27.2
Denmark	Copenhagen	-3.4	-0.4	+2.5	-0.3	+5.3	+9.1	+24.8	+11.6
Finland	Helsinki	+5.2	+7.9	+10.3	+6.8	+11.2	+14.2	+25.2	+16.0
France	Paris	-13.9	-10.5	-7.2	-9.2	-2.2	+2.9	+25.0	+6.3
Germany	Berlin	-4.1	-0.7	+2.6	+0.3	+6.6	+10.8	+27.8	+13.5
England	London	-13.7	-10.7	-7.8	-10.3	-4.0	+0.6	+21.6	+3.9
Greece	Athens	+1.3	+7.3	+12.7	+13.4	+22.5	+28.1	+45.9	+31.6
Hungary	Budapest	-1.3	+3.0	+6.9	+5.6	+12.8	+17.5	+34.7	+20.5
Italy	Rome	-9.8	-5.0	-0.4	-0.6	+8.5	+14.6	+37.0	+18.5
Poland	Warsaw	+1.5	+5.1	+8.4	+6.1	+12.2	+16.2	+31.0	+18.8
Portugal Spain	Lisbon	-30.2	-27.0	-23.7	-25.3	-16.8	-10.1	+23.9	-5.1
	Madrid	-24.8	-21.2	-17.6	-18.7	-9.9	-3.2	+27.5	+1.5
Belgium	Brussels	-11.2	-7.9	-4.8	-7.0	-0.3	+4.4	+24.7	+9.3
Sweden	Stockholm	+1.1	+3.8	+6.4	+3.0	+7.8	+11.0	+23.8	+13.0
Switzerland	Bern	-11.3	-7.5	-3.8	-5.2	+2.4	+7.8	+29.5	+11.4

Austria	Vienna	-3.4	+0.7	+4.5	+3.0	+10.2	+15.0	+32.9	+18.0
---------	--------	------	------	------	------	-------	-------	-------	-------

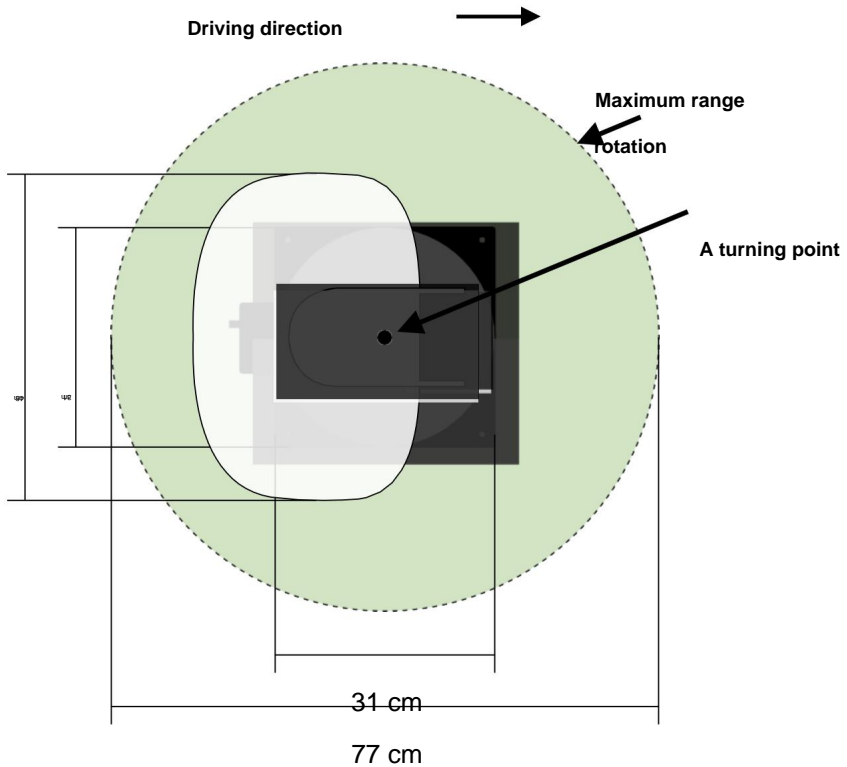
7. Footprint



Note:

Interference may occur in remote areas of the track.

8. Mounting dimensions



7. Specifications

Antenna type	Off-Set-dish
Number of users	1 (Caravanman Kompakt 3) 2 (Caravanman Kompakt 3 Twin)
LNB type	Universal LNB
Frequency band	Ku-Band
Frequency range	10.7 GHz to 12.75 GHz 33 dBi
LNB amplification	
Reception performance	49 dBW
Polarization	Vertical / horizontal
Engine control unit Tilt angle	2-axis DC motor 15° to 62°
Search angle	
	360°
Temperature range	-25 °C to +70 °C
Power supply	12 V DC @ 5 Amps
Dimensions of the bowl	460 x 320 mm (W/H) 460
Dimensions of the antenna	x 170 x 460 mm (W/H/D) 5.1 kg
Mass antenna	195 x
Control unit dimensions Weight	30 x 150 mm (W/H/D) 360 g
control unit	

Note: Weight

and dimensions are not completely accurate values.

Technical data may be changed at any time without prior notice.

PRODUCT REGISTRATION

By registering a Megasat product, you get access to our automatic email alerts. If your product requires new firmware, you will be notified by email.

To register, please visit our homepage www.megasat.tv.

You can find the form in the **Product Registration Support** section

WEEE Reg.-Nr. DE70592344



Version: 1.1 (December 2021)

Technical changes, printing errors and mistakes reserved.

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