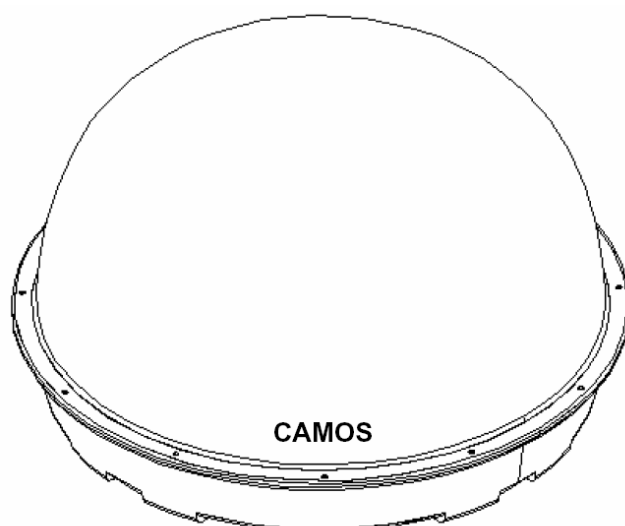




CSA-1300P/1400P

Automatic, auto-adjusting Satellite antenna

Instruction Manual



**Thank you for purchasing our product.
Please read this instruction manual carefully before mounting
and operating this antenna!**

**Pls write down the serial number of this antenna.
In case of questions pls inform us of this number:**

Ser.-Nr.: _____

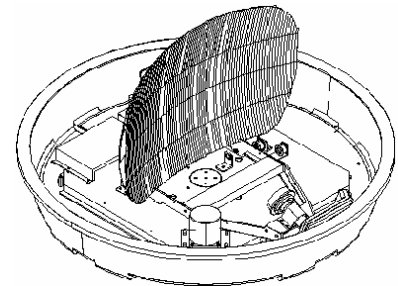
The Camos CSA-1300P/1400P enables reception of the major European satellites like ASTRA1, ASTRA2, HOTBIRD, SIRIUS, ATLANTIK BIRD 3 and HISPASAT.

If you want to watch TV or access the Internet via satellite, here's the equipment you need. The sat-dome is compact in size, light in weight, reliable in operation and incredibly easy to operate and install: there are just two cables to run.

So the system's simplicity and neatness makes it an attractive alternative to conventional dish systems.

1. Standard accessory

- Sat-Antenna CSA-1300P/1400P
- Control box incl. power cable
- 1 HQ co-ax cable (10m) with F-plug on both ends
- 1 HQ co-ax cable (1m, white)
- 1 Gel protection cap for F-plug



2. Installing your antenna

We basically recommend installing the CSA-1300P/1400P with the help of your professional dealer/workshop!

Pls pay attention that installing the antenna increases the height of your vehicle!

Important!

Pls absolutely keep to each individual point of mounting instruction!

General:

Pls take care of a suitable workplace, a garage or hall is better than a place outside. The ambient temperature during sticking the antenna should lie within a temperature between +5°C to max.+25°C. If you work outside **avoid direct sunlight!**

Always keep to the instructions dealing with chemical products.

Take care of necessary hygienic working conditions.

Preparation:

1. Assure that the roof of your vehicle is able to carry the antenna. If you are not sure pls fix a metal plate (Alu, appr. 2mm thickness) onto the roof. Pls also ask the vehicle's manufacturer.
2. Pls check completeness of parts.
3. Put the antenna on the selected mounting place on the car roof and adjust if necessary. The mounting place must be even and no other roof constructions may cover the reception area of the antenna.
Mark the outline of antenna feet with a suitable pen.
In case of problems (e.g. the roof is not even but has a curved form instead) pls call our hotline to arrange further steps.



4. Replace the antenna.

Clean the mounting place and the antenna feet with the supplied special cleaning fluid "Reiniger1" and the supplied fleece (pls wear the supplied Latex gloves!). Grind the marked fixing areas and antenna feet with sandpaper (not too much, the surface must be rough a little bit only), clean the surface and antenna feet with cleaning fluid 1 again and wait another 10 minutes.

Attention! Now do not touch the cleaned surface any more!

5. Apply (with the help of the wool wiper - pls wear the supplied Latex gloves!) the Primer 2 evenly and thin onto the cleaned surface and feet. Then pls wait another 10 minutes. **Attention! Do not touch the cleaned surfaces any more!**

Close the Primer 2 bottle at once after use.

Note:

If the surface of the mounting place is made from unknown material, we recommend a "test sticking". If necessary we can arrange a material analysis at your cost.

Sticking the antenna to your vehicle's roof:

1. Cut the tip of the supplied cartouche special glue "Spezialkleber 3" (pls wear the supplied Latex gloves!).
2. Apply evenly the glue onto the antenna feet (thickness of glue layer appr. 3 to 4mm)
3. Pls put the antenna (max. 5 minutes after applying the glue!) on the selected mounting place on the car roof. Press the antenna feet smoothly onto the roof and fix the antenna with tape e.g. to avoid moving. After pressing the antenna feet onto the roof the minimum thickness of the glue layer must be appr. 2mm.
Now the glue needs a hardening time of appr. 48 hours (air humidity of 50%).
If the air humidity is lower than 50% pls spray some water into the air in the surrounding of the antenna feet.
4. Remove the outcropped glue on the sides of antenna feet and clean the surface with the supplied fleece and special cleaning fluid "Reiniger1".
5. In addition you can fix the antenna feet with the help of 4 screws. Pls set the screw **after** hardening of the glue.

3. Connections

Do not mount the Control box and your satellite receiver in the area of the vehicle's airbags!

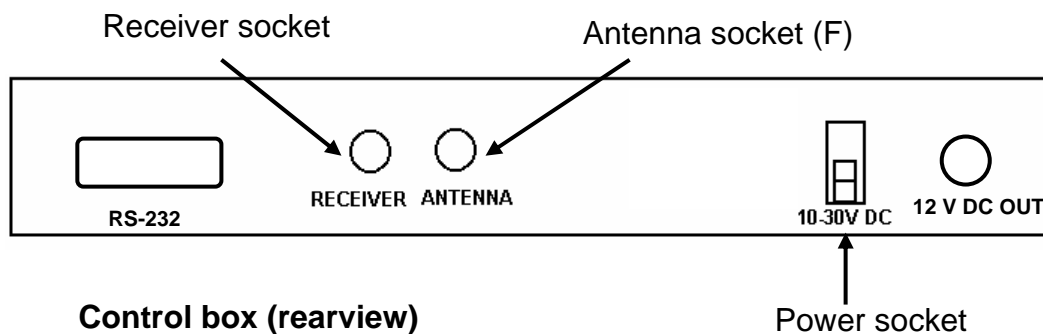
Lay the cables carefully to avoid short circuit! Pay attention to existing cables!

1. Connect the antenna by plugging the long white cable into antenna and control box.
2. Put the gel cap over the antenna socket.

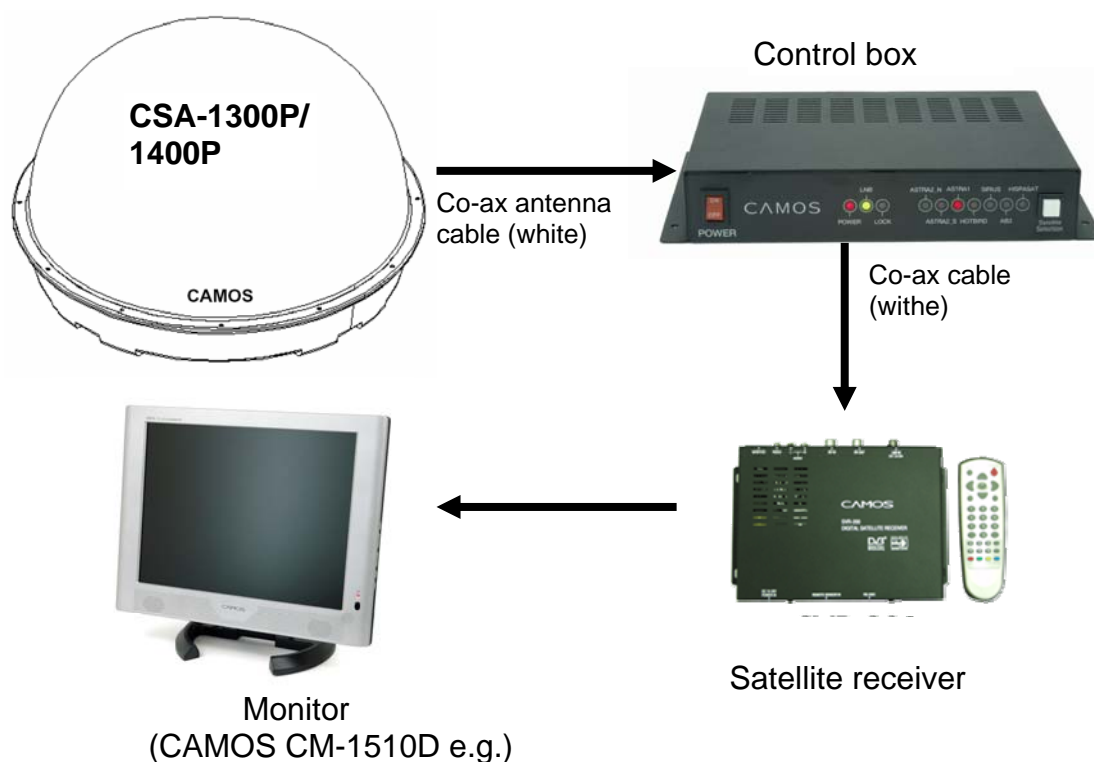


Gel cap

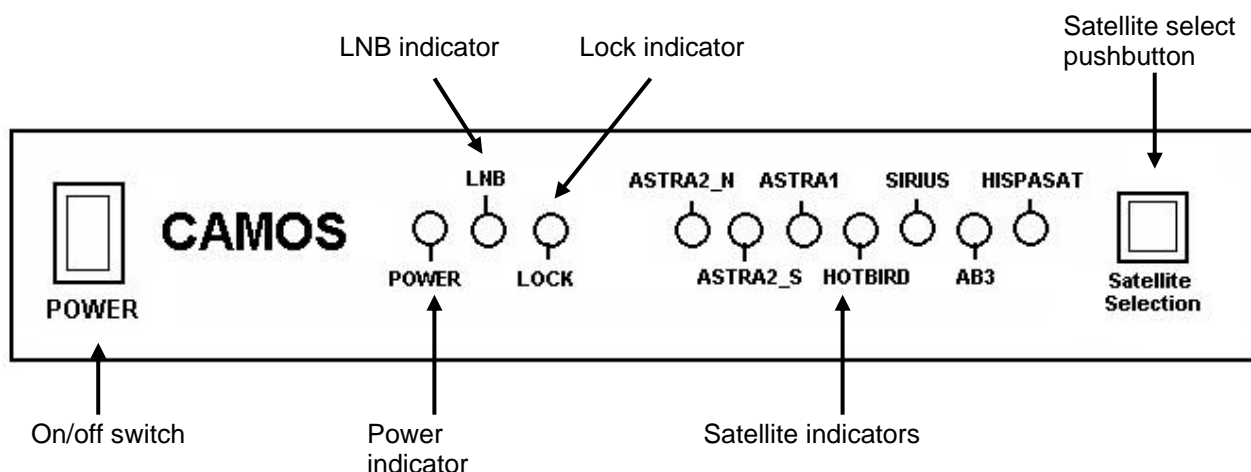
3. Connect the power cable (red/black) to the control box and power source (car battery e.g.). Positive terminal (+) = red colour
Negative terminal (-) = black colour



4. Install your satellite receiver (CAMOS SVR-200 e.g.) according to it's user manual and connect it to the control box via the short white co-ax cable.



4. Starting up and operating



1. Switch on your satellite receiver and monitor/TV. Now you can switch on the control box. The green "LNB" indicator lights up after switching on the receiver.
2. Switch on the control box. The red indicator of the preset satellite lights up. The red "POWER" indicator lights up, the red indicator of the preset satellite starts blinking, then lights up continuously. Now the antenna starts the search mode.
3. When the antenna found the desired satellite, it stops and starts fine adjustment. When fine adjustment is finished the "LOCK" indicator lights up and the TV picture appears on the screen.
(If you have selected a TV channel in high band with vertical polarisation you can see the TV picture already during fine adjustment)
Now the "POWER" indicator turns off and the antenna is in power save mode.
4. If the antenna does not immediately catch the desired satellite, after a short moment the "LOCK" indicator turns off, the indicator of the(wrong) caught satellite lights up for a short moment and the antenna starts searching again for the desired satellite.

The duration of the first search mode can be around max. 3 minutes. When you have changed your location this mode can be much shorter because the antenna has memorized it's previous position.

5. Selecting a satellite
 - a) Push within the first 3 seconds after switching on the control box the "SATELLITE SELECT" button as often until the desired satellite indicator lights up.
 - b) Push (after the antenna has locked on the desired satellite) the "SATELLITE SELECT" button as often until the desired, new satellite indicator lights up.
Now the antenna moves to the new satellite.

ASTRA 2-N pls select when you are in the northern part of ASTRA2 footprint.

ASTRA 2-S pls select when you are in the southern part of ASTRA2 footprint.
ASTRA 1 pls select for Astra 1
HOTBIRD pls select Hotbird
SIRIUS pls select for Sirius
ATLANTIC BIRD 3 pls select for Atlantic Bird 3
HISPASAT pls select for HISPASAT

On the move it is normal that obstacles like tunnels, trees or buildings cut the direct connection to the satellite. In this case no reception is possible.

5. In case of problems

No reception / no picture:

- a) Any obstacles (trees, buildings or roof constructions) between antenna and satellite?
Choose a different position or wait until your vehicle is in reception area of satellite again.
- b) Correct installation of antenna cables? Defective cables (broken)?
Pls check the cables!
- c) Did you select the correct satellite? Please check whether the satellite selected on your receiver corresponds with the satellite selected on control box.
- d) Did you switch on control box and satellite receiver?
- e) Power supply ok? Pls check power cable(s).

Note:

We recommend not to paint the antenna dome, because this may have a negative effect on satellite reception and the dome (due to the solvents of the paint)

6. Technical Data

Frequency range:	10,7 to 12,75 GHz
LNB-Type:	universal
Polarisation:	horizontal and vertical
Gain:	33dBi
Elevation:	17° - 60°
Azimuth:	360° endless
Power supply:	12 - 24V
Operating temperature:	-22°C to +55°C
Antenna cable	HQ co-ax, length 10m
Diameter:	appr. 69,5cm
Height:	appr. 30cm (CSA-130P)/ appr. 40cm (CSA-140P)
Weight (without control box):	appr. 9kg

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