Operating instructions

For motorhomes and caravans







Oyster®
SAT-DOM 50 GS (HDTV)

For maritime area





Oyster®
SAT-DOM 50 M-GS (HDTV)

Oyster®
SAT-DOM 75 M-GS (HDTV)

Oyster®
SAT-DOM 77 M-GS (HDTV)





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Introduction



The Oyster SAT-DOM dome antenna is yet another novelty from ten Haaft which takes fully automatic satellite reception to the next level. The actual antenna is located under a dome, waiting for the command to find the satellite transmitting the selected channel within just a few seconds.

Thanks to its single cable, the dome antenna is easy to mount on almost any vehicle or boat. The space occupied by the antenna unit while it performs the necessary adjustments does not change, as the dish pivots inside the dome. Roof hatches and other accessories can be used without interfering with the antenna and without any risk of damage.

All hardware components and all drive, control and sensor systems are located inside a weatherproof dome, thus being protected against gusts of wind and airflow.

The dome antenna is elegantly shaped and very lightweight.

Oyster® SAT-DOM GS (for land vehicle) Oyster® SAT-DOM M-GS (for maritime use)

The unique feature of this new system is the antenna's continuous tracking of the satellite, which allows uninterrupted reception of your favourite TV or radio channel while the vehicle is in motion. Technically, this is achieved with intelligent gyroscope stabilisation.

This system detects even the most minimal changes of the vehicle's direction and immediately adjusts the elevation and azimuth angles of the antenna accordingly. As a result, signal reception is hence maintained at all times – even in tight turns and fast curves.

Oyster® SAT-DOM ST (only for land vehicle - static)

Unlike automatic dish antennas that must first move into position upon arrival at the holiday destination or stop-over location, the dome antenna is fully operational at all times. Usage only for stationary state.

Version: Oyster® SAT-DOM 50 GS / ST

- 42 cm unique special dish
- Ø approx. 45 cm / Height approx. 38 cm

Version: Oyster® SAT-DOM 50 M-GS

- 42 cm unique special dish
- Ø approx. 45 cm / Height approx. 38 cm

Version: Oyster® SAT-DOM 75 M-GS

- 47 cm unique special dish
- Ø approx. 50 cm / Height approx. 48 cm

Version: Oyster® SAT-DOM 77 M-GS

- 53 cm oval dish
- Ø approx. 66 cm / Height approx. 56 cm

Proper use and operation

The Oyster® SAT-DOM is developed for use on motor homes, caravans, other vehicles or boats (Oyster® STA-DOM **M-GS** version). This product is designed for receiving television and radio signals, in parked vehicles, from geostationary satellites transmitting directly to Europe.

The product (Oyster® SAT-DOM GS / M-GS) enables in addition, aiming the antenna onto a television satellite on a moved vehicle or on a boat.

This product enables the provided antenna to be aimed manually, installed in a stationary vehicle, onto a television satellite.

The power to the system is supplied by a standard vehicle electric system with a rated voltage of 12 or 24 Volts. For installations where a mains connection to the vehicle's electrical system is provided, a suitable 230-Volt to 12-Volt power converter must be used.

This product has been designed for use in a fixed installation on motorhomes or camper trailers with maximum speeds of 130 km/h.

Use of the Oyster® SAT-DOM equipment for any purpose other than that specifi ed is not permitted.

- It is not permitted to change the overall device by removing or adding individual components.
- All of the relevant and approved guidelines of the automotive industry must be observed and complied with. All instructions in the supplied Installation Instructions must be carefully followed.
- No regular maintenance is required for the product. All housings and enclosures must not be opened.
- Avoid to clean your vehicle with the mounted satellite system in a single-bay or drive-through car wash or with a high-pressure cleaner.
- The equipment must only be installed on hard vehicle roofs which are suffi ciently strong and inherently stable.
- In the event of any problems, or if you are unsure about anything, please contact the manufacturer directly or a specialist workshop which is approved by the manufacturer.

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Part of delivery - camper and caravan:

- Oyster® SAT-DOM antenna (Version GS oder ST)
- Powermodul (adapter between DOM and receiver)
- 12 V / 24 V SAT-DOM HDTV-Receiver
- Remote control
- SAT-cable; provided with TNC-special plug

Part of delivery - maritime:

- Oyster® SAT-DOM antenna (Version M-GS)
- Powermodul (adapter between DOM and receiver)
- 12 V / 24 V SAT-DOM HDTV-Receiver
- Remote control
- SAT-cable; provided with TNC-special plug



Features:

- Easy to operate
- Elevation range: < 10° to 60°
- Unlimited pivoting
- Digital satellite search and identification at the touch of a button
- Extensive reception range
- High-quality craftsmanship and durable materials
- · Aerodynamic design
- Water-repellent design prevents freezing in winter
- NO condensation problems inside the dome
- Connected voltage 12 V / 24 V
- Made in Germany
- Manufacturer is QM-certified in accordance with ISO 9001

Oyster SAT-DOM 50 ST

- Fully automatic adjustment in less than 15 seconds
- 42 cm unique special dish
- Space-saving mounting plate (50 x 37 cm)
- Dome resistant to hail and UV radiation
- Dimensions: Ø approx. 45 cm / Height approx. 38 cm
- Current consumption: 0.5 A at 12 V / 0.3 A at 24 V (without receiver)
- 3-year warranty and reliable service

Oyster SAT-DOM 50 GS



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- Directional adjustment: +/- 60° per second
- Fully automatic adjustment in less than 7 seconds
- 42 cm unique special dish
- Space-saving mounting plate (50 x 37 cm)
- Continuous reception with clear view towards the South
- Dome resistant to hail and UV radiation
- Dimensions: Ø approx. 45 cm / Height approx. 38 cm
- Current consumption: 1.2 A at 12 V / 0.6 A at 24 V (without receiver)
- 3-year warranty and reliable service

Oyster SAT-DOM 50 M-GS



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- Directional adjustment: +/- 60° per second
- Fully automatic adjustment in less than 7 seconds
- 42 cm unique special dish
- Optional: Space-saving mounting plate (Ø 40 cm)
- Continuous reception with clear view towards the South
- Dome resistant to seawater and UV radiation
- Dimensions: Ø approx. 45 cm / Height approx. 38 cm
- Current consumption: 1.3 A at 12 V / 0.7 A at 24 V (without receiver)
- 2-year warranty and reliable service

Ovster SAT-DOM 75 M-GS



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- Directional adjustment: +/- 60° per second
- Fully automatic adjustment in less than 7 seconds
- 47 cm unique special dish
- Optional: Space-saving mounting plate (Ø 40 cm)
- Continuous reception with clear view towards the South
- Dome resistant to seawater and UV radiation
- Dimensions: Ø approx. 50 cm / Height approx. 48 cm
- Current consumption: 1.7 A at 12 V / 0.9 A at 24 V (without receiver)
- 2-year warranty and reliable service

Oyster SAT-DOM 77 M-GS



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- Directional adjustment: +/- 60° per second
- Fully automatic adjustment in less than 7 seconds
- 53 cm oval dish
- Optional: Space-saving mounting plate (Ø 40 cm)
- Continuous reception with clear view towards the South
- Dome resistant to seawater and UV radiation
- Dimensions: Ø approx. 66 cm / Height approx. 56 cm
- Current consumption: 1.9 A at 12 V / 1.0 A at 24 V (without receiver)
- 2-year warranty and reliable service

Safety information

Maintenance:

The Antenna SAT-DOM is maintenance free. The Dome must not be opened in no case



Security advice:

Proof once in a while the sturdiness of the antenna mounting. For damages caused by insufficient fixation of the antenna system, we do not take responsibility. Please make sure, that the complete system is sealed properly, to avoid the penetration of humidity. Please do not demount or open the dome and do not disassemble the system inside – else if any claim on warranty expires.

Mounting / Function of the system:

For the quality of reception an appropriate place of location is needed. It is necessary, that there is between SAT-DOM and satellite no buildings, trees, bridges, masts or other reception barrier. Obstacles would bloc the satellite signal and may cause a bad or no reception.

Oyster® SAT-DOM GS / M-GS

Short interruptions or interference of the satellite signal, are corrected by the reception system itself, by adjusting automatically. This means, that the connection to the satellite is reconstituted, when the obstacle is passed.

Oyster® SAT-DOM ST

The system reconstitutes the connection to the satellite immediately after an interruption, when the signal is received again.

Operation

Search channel configuration:

There is no need for any programming of the Sat antenna System for other satellites.

The SAT-DOM starts automatically, wenn the receiver is switched on. The receiver controls the SAT DOM.

The SAT DOM is parked 10 seconds after the receiver is switched of.

The following Satellite list are preprogrammed in the DOM and Receiver:

Hispasat	30° West
Atlantic Bird 3	5° West
Amos	4° West
Thor	1° West
Astra 4	5° Ost
Eutelsat W3A	7° Ost *
Eurobird 9	9° 0st *
Hotbird	13° Ost *
Astra 1	19,2° Ost
Astra 3	23,5° Ost
Astra 2	28,2° Ost
Hellas Sat	39° Ost
Türksat	42° Ost

^{*} Only receivable under optimal circumstances. Reception depends of the area.

Clear malfunction:

symptoms	error cause
No function and no positioning noise	 Proof the power supply Power module connected? 11-28 V/DC or by power supply unit 230V /AC. SAT receiver switched on? SAT connection cable linked properly?
Continuous positioning noise. No reception.	 On the first initialization, the adaptation of the system may take a while. The system needs to adjust to the new location Prevents a build-up or an other obstacle the reception? Corrective -> change position
Antenna has positioned, no further adjusting noise, but no reception:	Verify the configuration of the receiver, switch channelProof the connection between TV and receiver
Sudden Interruption of the TV signal	 An obstacle in the reception line for a short time. The Antenna finds immediately again the satellite position again (GS / M-GS) Verify the power supply
Breakdown of the TV signal. Noise of motion continuously inside the DOM	Separate the receiver and the POWER-MODUL from the power supply. Wait a minute and reconnect the connections again.
Others	 Radar or airport near Mechanical damage is sometimes not visible from outside. The dome is made out of flexible material.

Piece of equipment and mounting description

Initial Operation:

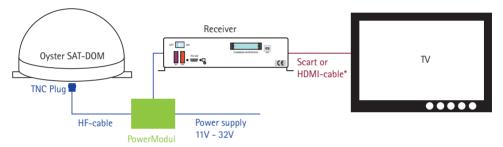


Attention !!!

Switch on TV and Satellite receiver only if all cable links are connected. Switch off the devices before disconnecting the cables. Else if, the receiver may be damaged.

Use for the connection of the SAT dome, POWERMODUL and receiver the appropriate double shielded Satellite HF cable (Part of delivery). The motorhome and caravan versions of the cable heads have a "F" screw connector.

The maritime versions of the HF-cable is fixed on one side with the DOM.

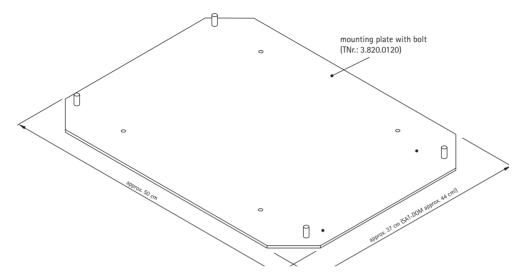


^{*}depends on receiver product type

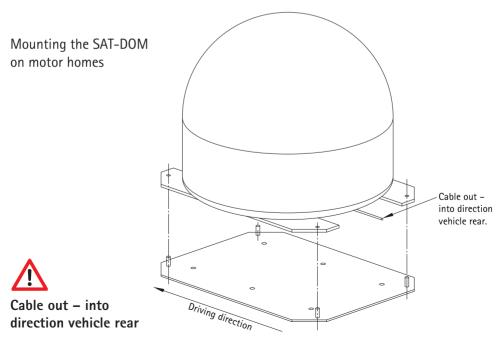
Piece of equipment and mounting description for



Mounting example:

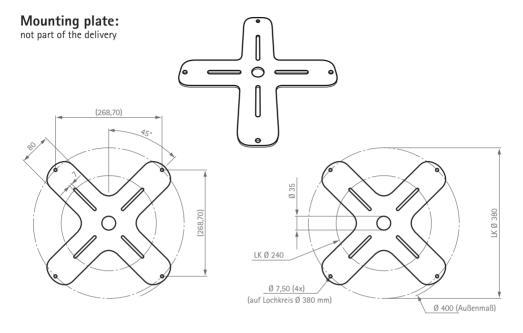


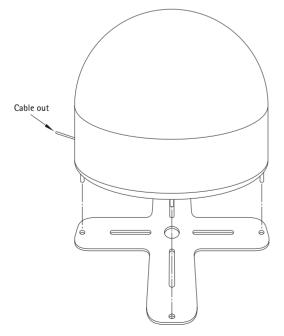
Please mount the automatically adjusting satellite reception system with the provided mounting plate on a horizontal sturdy underground.



Piece of equipment and mounting description for



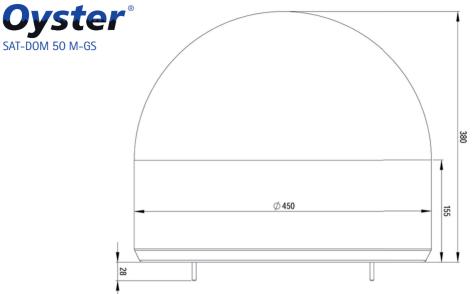


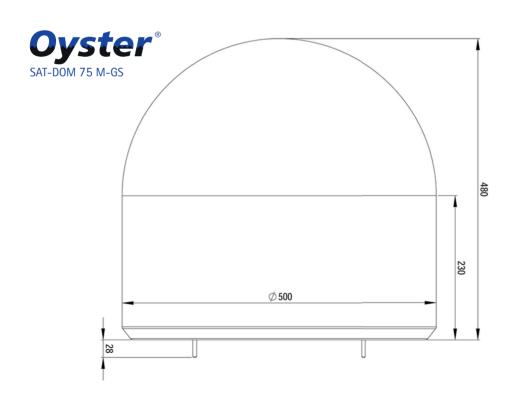


Please mount the automatically adjusting satellite reception system on a appropriate place.

Mounting option: Mounting plate (3.280.0122) (not part of the delivery)

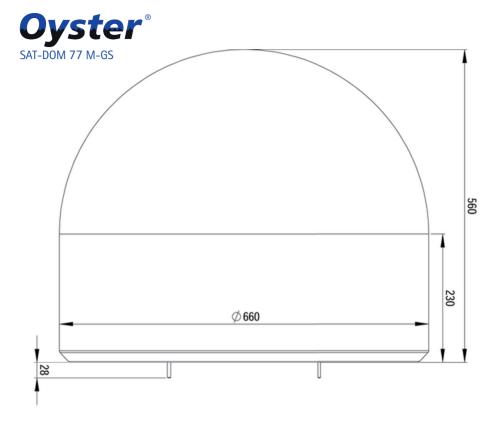






Piece of equipment and mounting description for





Piece of equipment and mounting description

Technical data:

Antenna: Oyster SAT-DOM

LNB F = 0.3 dB

Oscillator frequency 9,75/10,6 GHz

Receiving frequency:

10,7-11,7 GHz (lower range) 11,7-12,8 GHz (upper range) Elevation range <10°-60°

Azimuth range 0°-360° - no limitation.

Operation at environmental temperature range -20°C up to 45°C

Connection: Cable comes out with TNC Plug. Please use the provided satellite

cable with pure copper center conductor to avoid loss of quality.

Power supply 11-28V by POWERMODUL

Current consumption: See chapter Proper use and operation

General: Oyster SAT-DOM 50 ST / GS / M-GS

EIRP 50 dBW / Ø approx. 45 cm / Height approx. 38 cm / Weight approx. 8 kg

Oyster SAT-DOM 75 M-GS

EIRP 49 dBW / Ø approx. 50 cm / Height approx. 48 cm / Weight approx. 11 kg

Oyster SAT-DOM 77 M-GS

EIRP 48 dBW $\,$ / $\,$ Ø approx. 66 cm $\,$ Height approx. 56 cm $\,$ Weight approx. 14 kg

Mounting: with the provided mounting plate on a horizontal sturdy

underground. (optional for M-GS version)

POWERMODUL: processor controlled POWERMODUL

Input voltage 11–28V/ min 2 A F-Connection for dome and receiver



At the end of its lifecycle, this product must not be disposed of with your normal waste, but instead must be returned to a recycling facility for electric and electronic devices. This is indicated by the symbol on the product, the operating manual or the packaging.

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