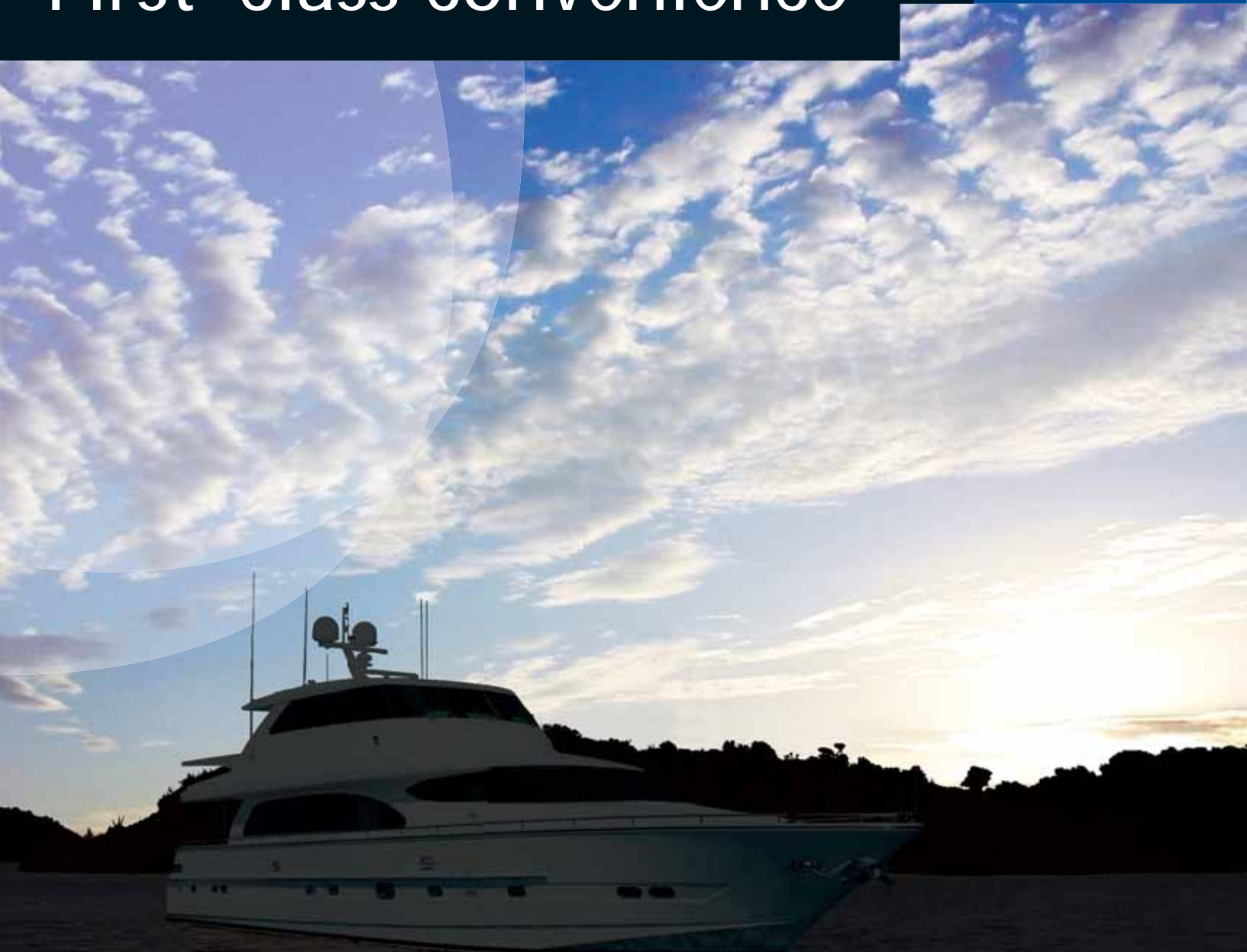




# First-class convenience



*ten* **Haaft**®

Innovative Mobile Technology





## Convenience at the touch of a button!

*Our products offer great convenience of operation at the touch of a single button.*

### Two specialists riding the wave of success

As a manufacturer of fully automatic satellite and solar systems, ten Haaft is known as the technology leader in the leisure and camping sectors throughout Europe, Australia and New Zealand. This German company represents 20 years of experience in the development and production of innovative and high quality products. Certification to ISO 9001 confirms that these quality products „Made in Germany“ are state of the art with regards to technology. In addition, ten Haaft impresses with reliable service and offers a 2 year warranty.

The company Kerstan can also look back over decades of experience with fully automatic satellite systems for leisure boats, yachts and commercial vessels.

The merger of these two branch specialists has bundled their know-how and given rise to a new range of products that are available across Europe.





*Your decision for a ten Haaft® satellite system is not only a decision for a reliable product of a reputable manufacturer, but also a decision for experience and service, intelligent technology and high quality!*

## Oyster SAT-DOM - Radio and television reception at sea

The permanent tracking by this compact dome antenna is essential for the application at sea, enabling television and radio reception without interruption.

Technically, this is achieved with intelligent gyroscope stabilisation. This technology detects even the most minimal course corrections made by the vessel and immediately adjusts the elevation and azimuth angles of the antenna accordingly. Signal reception is therefore retained at all times – even with a strong swell or when manoeuvring.

Thanks to the single-cable technology, the dome antenna is easy to install on almost any vessel.

All hardware components including drive, control and sensor systems are located inside a weather and seawater-proof dome, which also protects against strong gusts of wind, rain and hail.

The dome antenna is extremely compact in design. In addition, the elegantly shaped domes are absolute lightweights.

Let yourself be impressed by the product range. We hope you enjoy reading the following pages.

# Oyster®

SAT-DOM 50 M-GS

Information on pages 6-7



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- 42 cm unique special dish
- Ø approx. 45 cm / Height approx. 38 cm
- Minimal mounting space

## Reception range

Oyster® SAT-DOM 50 M-GS



 ASTRA 2 A/B

Transmits all important **Sky** programmes in the United Kingdom, Ireland, Spain, France, Germany, Denmark, Italy and parts of Eastern Europe.

# Oyster®

SAT-DOM 75 M-GS

Information on pages 8-9



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- Long-range coverage with 47 cm unique special dish
- Ø approx. 50 cm / Height approx. 48 cm

## Reception range

Oyster® SAT-DOM 75 M-GS



 ASTRA 2 D

Transmits all important **Freesat** programmes in the United Kingdom, Ireland and Iceland.

# Oyster®

SAT-DOM 77 M-GS

Information on pages 10-11



- Tracking dome antenna
- Internal gyroscope technology for directional stabilisation
- Wide reception range with 53 cm oval dish
- Ø approx. 66 cm / Height approx. 56 cm

## Reception range

Oyster® SAT-DOM 77 M-GS



The shown footprints are indicating the typical range. Ranges may vary. Additional range can be expected for certain programmes.

# Oyster®

SAT-DOM TRX 7 M-GS Internet

Information on pages 12-13



- Tracking dome antenna, including modem and iLNB
- Internal gyroscope technology for directional stabilisation
- 60 cm full-format dish
- Ø approx. 69 cm / Height approx. 76 cm

## Reception range

Oyster® SAT-DOM TRX 7 M-GS Internet



The shown footprints indicate the typical range. Additional range can be expected for certain programmes. The reception range (footprint size) is specified by the satellite operator and also by the TV provider / ISP. Ranges may vary at any time. ten Haaft does not take any responsibility for actual or future reception ranges. Please note that not only the size of a footprint may change but also the allocation of channels to a specific footprint is subject to change.



# Oyster®

## SAT-DOM 50 M-GS

Our smallest dome antenna is mainly used on compact yachts or boats and has an impressively low height of approx. 38 cm. This absolute lightweight has a hail and UV-resistant dome.

The intelligent gyroscope stabilisation enables permanent tracking of the satellite by the antenna so that the signal is retained even with a strong swell. Minute up and down movements of the vessel are detected as soon as they start so that the antenna is immediately adjusted in elevation and azimuth.

Thanks to the specifically designed 42 cm dish, almost all SKY and Freesat channels can be received, e.g. in all coastal waters of the British Isles.



## Features

- Tracking dome antenna
- Easy to operate
- Internal gyroscope technology for directional stabilisation
- Elevation range: < 10° to 60°
- Unlimited pivoting
- Directional adjustment: +/- 60° per second
- Digital satellite search and identification at the touch of a button
- Fully automatic adjustment in less than 7 seconds
- Extensive reception range thanks to 42 cm unique special dish
- Continuous reception with clear view towards the South
- High-quality craftsmanship and durable materials
- Dome resistant to seawater and UV radiation
- Aerodynamic design
- Water-repellent design prevents freezing in winter
- NO condensation problems inside the dome
- Dimensions: Ø approx. 45 cm / Height approx. 38 cm
- Connected voltage 12 V / 24 V
- Current consumption: 1.3 A at 12 V / 0.7 A at 24 V (without receiver)
- Made in Germany
- Manufacturer is QM-certified in accordance with ISO 9001
- 2-year warranty and reliable service

Areas of operation:

At sea / inland waters / bays / at anchor / in harbours

Technical changes reserved



# Oyster®

SAT-DOM 50 M-GS Digital



- Including digital receiver pre-programmed to control the dome antenna
- Equipped with CI card slot:  
2 CI slots for encrypted programmes (without module/card)
- OSD menu: simple and convenient operation via screen
- 5000 preset channels (3500 TV / 1500 radio)
- Free software and channel list updates via satellite
- Teletext integrated in digital receiver
- EPG: integrated Electronic Programme Guide
- OBSC system: automatic satellite switchover when changing programmes
- Weight approx. 8 kg

# Oyster®

SAT-DOM 50 M-GS Vision



- *Vision* = receiver-independent variant
- Compatible with any receiver (SDTV / HDTV)
- Includes user-friendly and compact control unit
- Simple satellite change possible
- Weight approx. 7 kg

# Oyster®

SAT-DOM 50 M-GS HighDefinition



- Including HDTV receiver (DM800 HDse), pre-programmed to control the dome antenna
- DVB-S2 tuner for HDTV reception (H.264 / MPEG4)
- Smartcard reader included
- OSD menu: simple and convenient operation via screen
- Unlimited memory space for programmes
- Teletext integrated in HDTV receiver
- OBSC system: automatic satellite switchover when changing programmes
- Connected voltage for HD-receiver: 12V DC / 230V AC
- Weight approx. 8 kg



# Oyster®

## SAT-DOM 75 M-GS

The enhanced version for large vessels impresses with a height of approx. 48 cm and a weight under 11 kg. The hail and UV-resistant dome is aerodynamically formed, water-repellent and, of course, seawater-resistant.

The internal gyroscope stabilisation in this dome antenna ensures undisturbed television reception, even on high seas. Reception is enabled in all British Isle coastal waters thanks to the specifically designed 47 cm dish. SKY and Freesat programmes can be received both in harbour and on the open sea.



## Features

- Tracking dome antenna
- Easy to operate
- Internal gyroscope technology for directional stabilisation
- Elevation range: < 10° to 60°
- Unlimited pivoting
- Directional adjustment: +/- 60° per second
- Digital satellite search and identification at the touch of a button
- Fully automatic adjustment in less than 7 seconds
- Extensive reception range thanks to 47 cm unique special dish
- Continuous reception with clear view towards the South
- High-quality craftsmanship and durable materials
- Dome resistant to seawater and UV radiation
- Aerodynamic design
- Water-repellent design prevents freezing in winter
- NO condensation problems inside the dome
- Dimensions: Ø approx. 50 cm / Height approx. 48 cm
- Connected voltage 12 V / 24 V
- Current consumption: 1.7 A at 12 V / 0.9 A at 24 V (without receiver)
- Made in Germany
- Manufacturer is QM-certified in accordance with ISO 9001
- 2-year warranty and reliable service

Areas of operation:

At sea / inland waters / bays / at anchor / in harbours

Technical changes reserved



## Oyster®

SAT-DOM 75 M-GS **Digital**



- Including digital receiver pre-programmed to control the dome antenna
- Equipped with CI card slot:  
2 CI slots for encrypted programmes (without module/card)
- OSD menu: simple and convenient operation via screen
- 5000 preset channels (3500 TV / 1500 radio)
- Free software and channel list updates via satellite
- Teletext integrated in digital receiver
- EPG: integrated Electronic Programme Guide
- OBSC system: automatic satellite switchover when changing programmes
- Weight approx. 11 kg

## Oyster®

SAT-DOM 75 M-GS **Vision**



- **Vision** = receiver-independent variant
- Compatible with any receiver (SDTV / HDTV)
- Includes user-friendly and compact control unit
- Simple satellite change possible
- Weight approx. 10 kg

## Oyster®

SAT-DOM 75 M-GS **HighDefinition**



- Including HDTV receiver (DM800 HDse), pre-programmed to control the dome antenna
- DVB-S2 tuner for HDTV reception (H.264 / MPEG4)
- Smartcard reader included
- OSD menu: simple and convenient operation via screen
- Unlimited memory space for programmes
- Teletext integrated in HDTV receiver
- OBSC system: automatic satellite switchover when changing programmes
- Connected voltage for HD-receiver: 12V DC / 230V AC
- Weight approx. 11 kg



# Oyster®

## SAT-DOM 77 M-GS

This dome antenna with a 53 cm oval dish is suitable for commercial shipping or houseboats in numerous European regions. The 56 cm high dome antenna with single-cable technology can be rapidly and easily fitted on any ship used, e.g. for inland navigation or on a river cruise ship. The low weight of approx. 14 kg only plays a small role here. The sturdy and UV-resistant dome is protected against seawater, hail and rain, while the formation of condensation on the inside is not possible.

The intelligent gyroscope stabilisation is integrated in the system and enables permanent tracking of a satellite by the antenna. The signal is therefore retained, even with a strong swell. Minute course corrections made by the vessel are detected as soon as they start so that the antenna is immediately adjusted in elevation and azimuth.



## Features

- Tracking dome antenna
- Easy to operate
- Internal gyroscope technology for directional stabilisation
- Elevation range: < 10° to 60°
- Unlimited pivoting
- Directional adjustment: +/- 60° per second
- Digital satellite search and identification at the touch of a button
- Fully automatic adjustment in less than 7 seconds
- Extensive reception range thanks to 53 cm oval dish
- Continuous reception with clear view towards the South
- High-quality craftsmanship and durable materials
- Dome resistant to seawater and UV radiation
- Aerodynamic design
- Water-repellent design prevents freezing in winter
- NO condensation problems inside the dome
- Dimensions: Ø approx. 66 cm / Height approx. 56 cm
- Connected voltage 12 V / 24 V
- Current consumption: 1,9 A at 12 V / 1,0 A at 24 V (without receiver)
- Made in Germany
- Manufacturer is QM-certified in accordance with ISO 9001
- 2-year warranty and reliable service

Areas of operation:

At sea / inland waters / bays / at anchor / in harbours

Technical changes reserved



## Oyster®

SAT-DOM 77 M-GS **Digital**



- Including digital receiver pre-programmed to control the dome antenna
- Equipped with CI card slot:  
2 CI slots for encrypted programmes (without module/card)
- OSD menu: simple and convenient operation via screen
- 5000 preset channels (3500 TV / 1500 radio)
- Free software and channel list updates via satellite
- Teletext integrated in digital receiver
- EPG: integrated Electronic Programme Guide
- OBSC system: automatic satellite switchover when changing programmes
- Weight approx. 14 kg

## Oyster®

SAT-DOM 77 M-GS **Vision**



- **Vision** = receiver-independent variant
- Compatible with any receiver (SDTV / HDTV)
- Includes user-friendly and compact control unit
- Simple satellite change possible
- Weight approx. 13 kg

## Oyster®

SAT-DOM 77 M-GS **HighDefinition**



- Including HDTV receiver (DM800 HDse), pre-programmed to control the dome antenna
- DVB-S2 tuner for HDTV reception (H.264 / MPEG4)
- Smartcard reader included
- OSD menu: simple and convenient operation via screen
- Unlimited memory space for programmes
- Teletext integrated in HDTV receiver
- OBSC system: automatic satellite switchover when changing programmes
- Connected voltage for HD-receiver: 12V DC / 230V AC
- Weight approx. 14 kg

# Oyster®

## SAT-DOM TRX 7 M-GS Internet

Enjoy unrestricted sending of e-mails, offers, orders, invoices, bank transfers or researching on the Internet whilst underway, thanks to the comfortable technology of the mobile Internet system Oyster SAT-DOM TRX 7. The on-board mobile office no longer has any limits today, allowing you to stay in touch at all times.

The 60 cm full-format dish inside the dome rapidly sets up a connection to the Internet satellite together with the interactive LNB (iLNB) and the satellite modem. The connection to the satellite is of course retained whilst underway, so that the Internet service is available on inland waters or at sea within the reception range. The intelligent gyroscope stabilisation immediately detects the smallest of course corrections or the swell. The antenna is immediately adjusted in elevation and azimuth by the gyroscopes in the system.

International telephoning via the Internet is also possible, independently of the mobile telephony network. Reliable, cross-Europe Internet services and individual contract periods are offered by the service provider IPcopter.

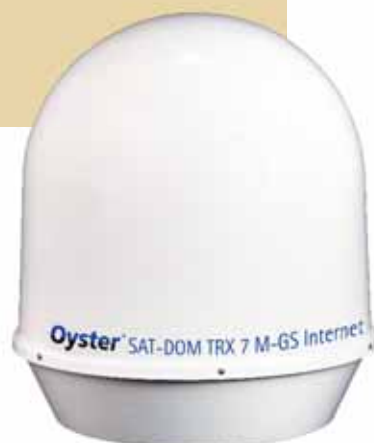
## Features

- Tracking Internet dome antenna
- Internal gyroscope technology for directional stabilisation
- Elevation range: < 10° to 60°
- Unlimited pivoting
- Directional adjustment: +/- 60° per second
- Fully automated aiming at the Internet satellite
- Interactive LNB (iLNB) enables 2-way Internet functionality
- Digital satellite modem
- Extensive reception range thanks to 60 cm full-format dish
- Continuous data communication with clear view towards the South
- High-quality craftsmanship and durable materials
- Dome resistant to seawater and UV radiation
- Aerodynamic design
- Water-repellent design prevents freezing in winter
- NO condensation problems inside the dome
- Dimensions: Ø approx. 69 cm / Height approx. 76 cm
- Weight: approx. 16 kg
- Connected voltage 12 V / 24 V
- Current consumption: 2.3 A at 12 V / 1.2 A at 24 V (without modem)
- Made in Germany
- Manufacturer is QM-certified in accordance with ISO 9001
- 2-year warranty and reliable service

Areas of operation:

At sea / inland waters / bays / at anchor / in harbours

Technical changes reserved





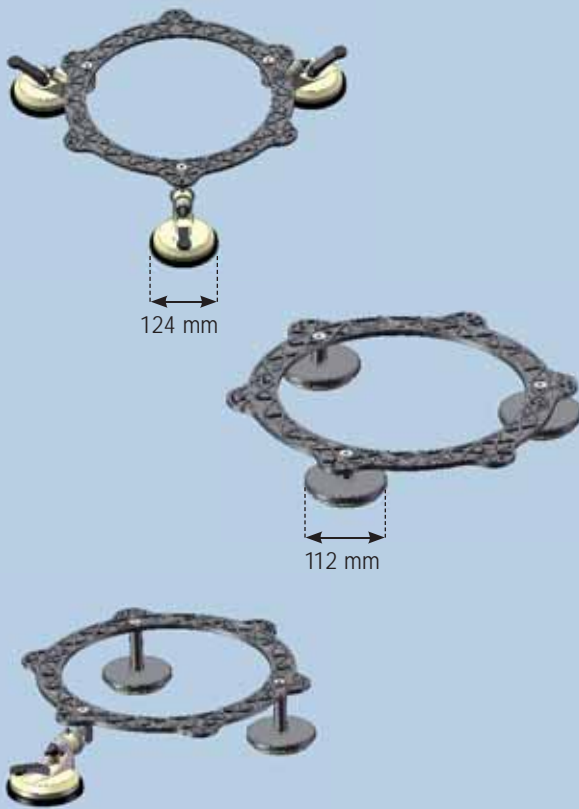
Two way technology:  
Pure satellite two way technology negates the necessity of a separate return channel. The transmission hardware makes the conventional telephone connection not necessary.

**Note:** A contract with the internet service provider (ISP) IPcopter is required to enable the broadband function. The range is set by the ISP. Tariffs and charges are available on request from IPcopter.





## Flexible Mounting System



### Flexible Mounting System

with matching bore holes for:  
Oyster SAT-DOM 50 M-GS / 75 M-GS  
incl. 6 additional securing loops

- 3x Flexible feet with sucker function
- Turn and tilting mount
- Height approx. 110 mm  
(without Oyster SAT-DOM M-GS system)
- Part.-No. 1.999.9015



- 3x Feet with Anti-Slip-Function
- Tilting plates
- Height approx. 62 mm  
(without Oyster SAT-DOM M-GS system)
- Part.-No. 1.999.9016



- 1x Flexible foot with sucker function  
(Turn and tilting mount)
- 2x Feet with Anti-Slip-Function  
(Tilt plate)
- Height approx. 110 mm  
(without Oyster SAT-DOM M-GS system)
- Part.-No. 1.999.9017



## Mounting plate



### Mounting plate (Stainless steel V4A)

with matching bore holes for:  
Oyster SAT-DOM 50 M-GS / 75 M-GS / 77 M-GS / TRX 7 M-GS Internet  
Thickness 5 mm / Diameter 40 cm  
Part.-No. 3.280.0122



TV satellite system	Oyster® SAT-DOM 50 M-GS	Oyster® SAT-DOM 75 M-GS	Oyster® SAT-DOM 77 M-GS	
Internet satellite system				Oyster® SAT-DOM TRX 7 M-GS Internet
Application	At sea Inland waters At anchor / in bays In harbours	At sea Inland waters At anchor / in bays In harbours	At sea Inland waters At anchor / in bays In harbours	At sea Inland waters At anchor / in bays In harbours
Connected voltage	12 V / 24 V * / 230 V ** * not for HDTV-receiver **with voltage converter	12 V / 24 V * / 230 V ** * not for HDTV-receiver **with voltage converter	12 V / 24 V * / 230 V ** * not for HDTV-receiver **with voltage converter	12 V / 24 V / 230 V ** **with voltage converter
Max. current consumption	1,3 A at 12 V 0,7 A at 24 V	1,7 A at 12 V 0,9 A at 24 V	1,9 A at 12 V 1,0 A at 24 V	2,3 A at 12 V 1,2 A at 24 V
Offset dish Ø	42 cm unique special dish	47 cm unique special dish	53 cm oval dish	60 cm full-format dish
Aiming time	< 7 sec.	< 7 sec.	< 7 sec.	< 7 sec.
Operating range / Elevation	<10° - 60° automatic	<10° - 60° automatic	<10° - 60° automatic	<10° - 60° automatic
Operating range / Azimuth	endless	endless	endless	endless
Directional adjustment	+/- 60° per sec.	+/- 60° per sec.	+/- 60° per sec.	+/- 60° per sec.
Dimensions				
Ø Diameter	Ø = approx. 45 cm	Ø = approx. 50 cm	Ø = approx. 66 cm	Ø = approx. 69 cm
H Height	H = approx. 38 cm	H = approx. 48 cm	H = approx. 56 cm	H = approx. 76 cm
Weight without receiver	approx. 7 kg	approx. 10 kg	approx. 13 kg	approx. 16 kg
Weight with receiver	approx. 8 kg	approx. 11 kg	approx. 14 kg	(incl. Internet modem)
Gyroscope-stabilised platform	✓	✓	✓	✓

### Satellite selection at the touch of a button

The Oyster SAT-DOM 50 / 75 / 77 M-GS comes with digital receiver, and all main satellites, such as ASTRA 2, are pre-programmed so that they can be selected by simply pressing a button on the remote control.

### Gyroscope stabilisation

The word gyro comes from Greek and originally meant a spinning top. Gyroscopes are used in technology for stabilisation and navigation, for example. In the case of stabilisation, this means that the direction of the angular momentum changes as soon as a force acts on the gyroscope. In practise this means that the antenna adjusts automatically for a rapid swing or strong swell and never loses the satellite signal.





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We will be glad to advise you: