Premium
OPERATOR MANUAL

CONTENTS

1. GENERAL INFORMATION

1.1 Introduction

This operator manual describes the functions of the automatic satellite system and how to operate it. Please observe the instructions provided in the installation manual supplied with the system.

Correct and safe operation of the system can only be ensured if both the installation manual and the operator manual are observed.

Your automatic satellite system is a smart satellite TV reception system that automatically aims itself at a preset satellite as long as the system is located within the footprint of this satellite.

Please ensure that the system always has a clear view to the south. Seen from Europe, all satellites are more or less located in the South.

If the satellite's signal beam is interrupted by obstacles such as mountains, buildings or trees, automatic aiming will not work and no TV signal will be received. (See 5.1: "Reception in practice – aiming the satellite system")

The first pages of this manual explain the general system functions, followed by an explanation of the setup options.

Before switching on the system, make sure that the opening antenna does not face any obstacles such as branches or garage door.

1.2 Scope of supply

"Oyster® TV" Premium system with remote control and control unit; external unit with antenna – optionally with SKEW pivoting unit for optimised reception

1.3 Intended use

This product has been designed for permanent installation on mobile homes or camper trailers with a maximum speed of 130 km/h.

It is designed to automatically aim a vehicle-mounted antenna at geostationary television satellites transmitting directly to Europe. This requires the vehicle to be at standstill.

Power to the system must be supplied by a standard vehicle electric system with a rated voltage of 12/24 V DC. Do not use a switching-mode power supply if the system is to be installed in a camper trailer. Using the equipment for any other than its intended purpose is not permissible.

When the system is connected to the on-board electric system, a suitable fuse must be provided in the on-board circuit.

1. GENERAL INFORMATION

The TV set is fitted with a toggle switch that fully isolates the device from the on-board electric system to prevent deep discharging of the vehicle battery system. If this switch is not used, suitable measures must be implemented in the on-board electric system to prevent deep discharging of the vehicle battery systems.

Your satellite system is approved by the manufacturer for connection to standard commercially available rechargeable lead batteries with a rated voltage of 12/24 V DC and a rated capacity of at least 50 Ah.

The manufacturer accepts no liability for direct or indirect damage or for consequential damage to the system itself, to battery systems, motor vehicles or other equipment or goods resulting from the connection of unsuitable battery systems or installation/wiring errors.

Please also observe the following instructions from the manufacturer:

• The system must only be installed on hard vehicle roofs which are sufficiently strong and inherently stable. Observe all relevant and approved guidelines of the automotive industry.

• The product does not require any regular maintenance. Opening housings and enclosures is not permissible. Inspection and maintenance may only be performed by a qualified professional.

• Avoid cleaning your mobile home or camper trailer with the mounted satellite system in a single-bay or drive-through car wash, and do not use a high-pressure cleaner.

• Any modification of the overall system by removing individual components or adding other components is not permissible. Using parabolic antennas or LNBs other than those originally fitted to the system is not permissible.

• Installation must only be performed by sufficiently qualified personnel. The installation manual supplied as part of the operator manual must be carefully followed. If you encounter any problems, or if you are unsure about anything, please contact the manufacturer directly or a specialist workshop approved by the manufacturer.

⚠ Retract the system in strong wind or storm.

⚠ If the vehicle moves or is transported in reverse at speeds above 30 km/h, especially when being transported by truck or train, the antenna must be secured against unintended unfolding by suitable means (see 1.4 Safety precautions).
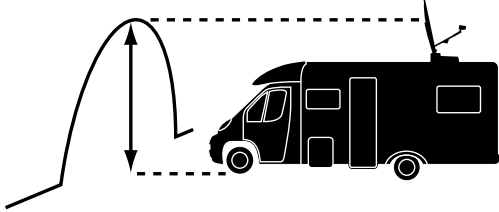
1. GENERAL INFORMATION

1.4 Safety precautions

⚠ To ensure that your satellite system works properly, it is essential that it is correctly connected to the ignition of your vehicle (see installation manual).

When correctly installed, the antenna automatically returns to and locks into its park position when the ignition is switched on. If the system cannot fully or completely retract due to a fault, then it is your responsibility as vehicle operator to check and make sure that the antenna is correctly and completely retracted before driving off.

The antenna retracts automatically when the ignition is switched on. Reactivating the antenna requires the "Oyster® TV" Premium system to be rebooted (switch the system off and back on).

ACHTUNG	**Zündung / Klemme 15** **muss angeschlossen werden** Zum automatischen Einfahren der Antenne bei Fahrzeugstart	**ATTENTION**	
	Ignition switch has to be connected For automatic retraction of the antenna at vehicle start		
	Démarrage doit être connecté Pour rétracter automatiquement l'antenne au démarrage du véhicule		

⚠ Road traffic regulations stipulate that the vehicle operator must verify the vehicle's roadworthiness before each use. This requires the operator to perform a visual inspection of the external unit to make sure that it is fully retracted.

Please also note that different legal requirements apply to the operation of electrical and electronic equipment in different countries. As the user of this equipment, you are responsible for ensuring compliance with the relevant laws and regulations.

Stop function via the remote control and isolation from operating voltage during service work

⚠ The STOP button on the remote control stops the motion of the antenna.

When servicing the antenna system, make sure that the entire "Oyster® TV" Premium system and the VISION III control box are isolated from operating voltage.

2. CONTROL ELEMENTS

2.1 Getting started / switching the system on and off

The only control elements of the fully automatic satellite system "Oyster® TV" Premium are the receiver integrated in the "Oyster® TV" Premium system and the remote control. The remote control buttons are only operational when the "Oyster® TV" Premium system is switched on and the initialisation has been completed.

SWITCHING THE SYSTEM ON / OFF

The system is switched into standby mode or completely off at the switch on the underside of the "Oyster® TV" Premium system (see page 11, element 10). Operation is started by pressing the POWER button on the remote control.

Caution!
When switching on the "Oyster® TV" Premium system, the antenna will start the automatic satellite search. The receiver integrated in the Oyster® TV" Premium system needs up to one minute to initialise after being switched on. The antenna then folds up and starts the automatic satellite search.

Note: Unless specified otherwise, all information refers to the buttons of the remote control.

Caution!
When switching on the "Oyster® TV" Premium with integrated receiver, the antenna will unfold and start the automatic satellite search.

1. Operate the switch on the underside of the device. The standby LED on the front illuminates red.

2. Press the POWER button on the remote control. The standby LED will illuminate blue.

SWITCHING THE DEVICE OFF

To switch the device into standby mode, press POWER. The standby LED will illuminate red. If you will not be using your TV set for an extended period, e.g. during the night, you may switch it off at the toggle switch on the rear (below). Note that the system will first retract and then unfold to perform a satellite search when you switch it back on.

2.2 Operating the antenna

If the antenna system is set up in the normal manner, it is not necessary to operate the antenna. The system will find the corresponding satellite automatically. If the position has changed significantly since last use, it is recommended to use the COUNTRY button to enter the current position.

The antenna function is controlled by the following 4 remote control buttons:

Country button: For the entry of the current position in order to optimise the satellite search. Stop button; Start button; Park button – for the direct operation of the antenna. When the receiver integrated in the "Oyster® TV" Premium device is switched off, the antenna buttons are not operational. The other buttons on the remote control can be used to control the receiver integrated in the "Oyster® TV" Premium system. See point 2.3 "Remote control". The "Oyster® TV" Premium system is configured at the factory to control the antenna.

2. CONTROL ELEMENTS

2.3 Remote control

Button	Function
POWER	POWER: In standby mode, this button will switch the "Oyster® TV" with integrated receiver into operating mode.
1 - 9	0 – 9 NUMBER BUTTONS: Press one of the number buttons (0 – 9) to directly select a channel or enter a number via the menu.
EPG	EPG / ELECTRONIC PROGRAMME GUIDE Press this button to show the current and upcoming programmes for each channel. Astra 2 will only show 'now and next'.
EXIT	EXIT: Press this button to exit the menu without saving any changes.
MUTE	MUTE: Press this button to mute all audio outputs of the receiver. Press the button again to restore audio playback.
●	For Personal Video Recorder function – via USB
Time Shift	Time-shifted TV playback via USB memory
SWAP	RECALL: Press this button to return to the previous channel.
◀◀	For Personal Video Recorder function – via USB
■	For Personal Video Recorder function – via USB
▶❚❚	For Personal Video Recorder function – via USB
▶▶	For Personal Video Recorder function – via USB
Source	Selection of input signal / source
File	Recording directory
OK	OK / ENTER: Press this button to save your selection or menu settings.
CHANNEL	Press this button to open the channel list

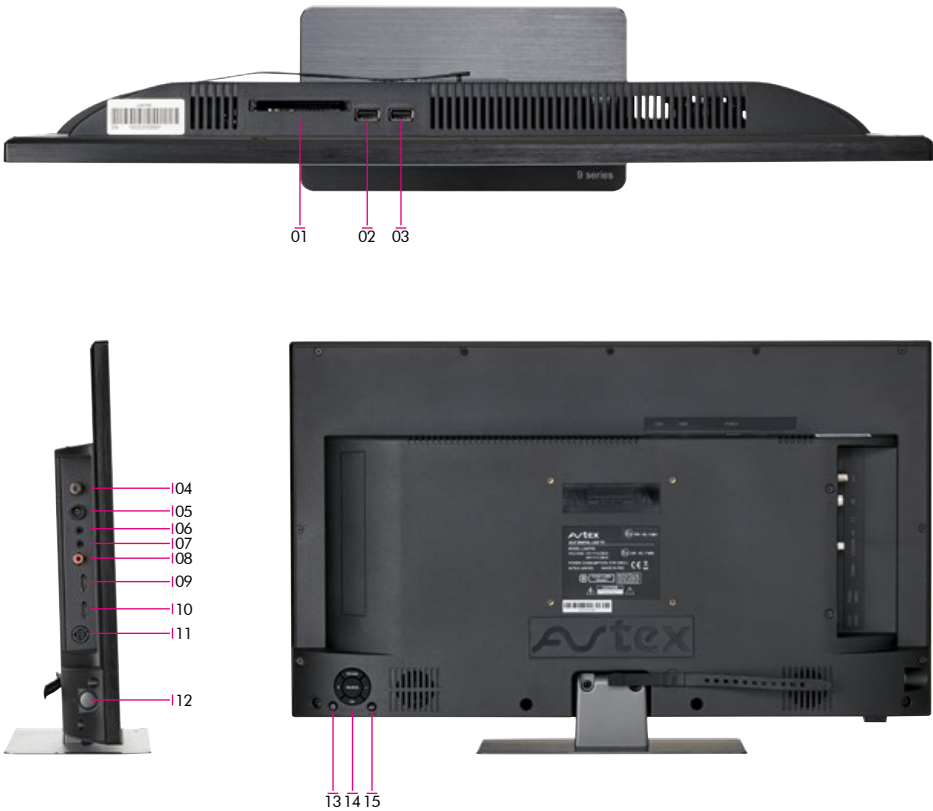| Button	Function
▲	NAVIGATION UP: Press this button to navigate one menu item up.
◄	NAVIGATION LEFT: Press this button to switch between available options.
►	NAVIGATION RIGHT. Press this button to switch between available options.
▼	NAVIGATION DOWN: Press this button to navigate one menu item down.
SETUP	Press this button to open the TV set's main menu / navigate one step back in the menu.
RED	RED: This button has various functions in the menu.
GREEN	GREEN: This button has various functions in the menu.
YELLOW	YELLOW: This button has various functions in the menu.
BLUE	BLUE: This button has various functions in the menu.
TEXT	Teletext
AQT	START Channel search DVB–T / T2, terrestrial TV
SUBT	SUBT - subtitles
INFO	INFORMATION about current channel
PAGE+	Page up / in channel list
PAGE-	Page down / in channel list
FAV	FAVOURITES: Press this button to open the previously saved list of favourite channels / favourite list.
TV/♫	Press this button to switch between TV and radio mode
AUDIO	Press this button to select the language for audio playback

| Button	Function
+◢	Volume up
–◢	Volume down
CH	Channel up
CH	Channel down
STOP	Press to stop antenna motion
START	Press to start antenna motion
PARK	Press to retract antenna
COUNTRY	Press to enter position. Useful after travelling any major distance
BATT	Press to open a window showing details of the supply voltage (from series 8 only).
S/Q	Press to open a window showing details of the antenna signal (from series 8 only).
PICTURE	Press to switch the image modes saved (from series 8 only).
SOUND	Press to switch the sound modes saved (from series 8 only).

2. CONTROL ELEMENTS

2.4 Interfaces / control elements at device

Inputs/outputs (19", 21,5", 23,6")	
01) CI / CI+ module slot	with dust cap
02) USB 1 port	
03) USB 2 port	
04) Satellite input	DVB-S/S2; F-jack
05) RF antenna port	DVB-T/T2; IEC port
06) Headphone jack	3.5-mm stereo jack
07) AV input	
08) Audio output (coaxial)	S/PDIF output
09) HDMI	
10) HDMI ARC	
11) 12 Volt / 24 Volt DC input	
12) On/Off switch	
13) Standby	Press to switch the TV set into sleep mode / standby
14) Control buttons	Source / Programme change/ Volume
15) AQT	TV – Press to open or close the setup menu. Press and hold for more than three seconds to start the channel search (terrestrial DVB-T2 HD/H.265 only)
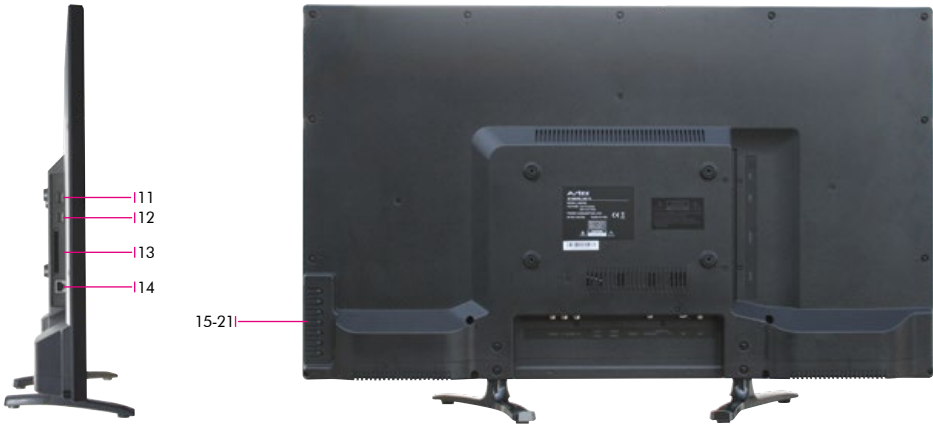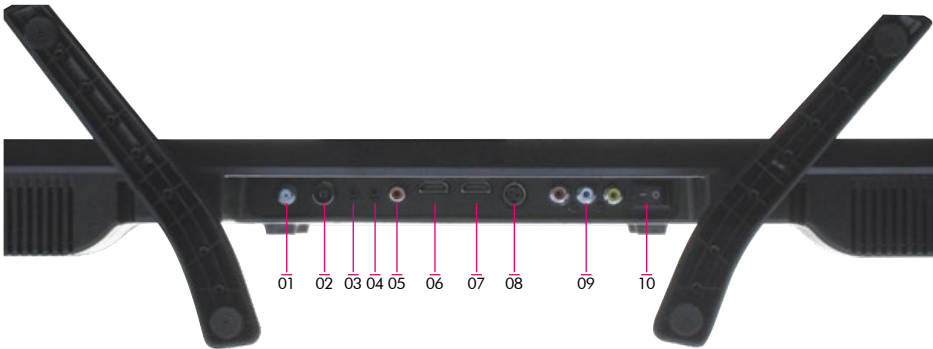
2. CONTROL ELEMENTS

| Inputs/outputs (32")	
01) Satellite input	DVB-S/S2; F-jack
02) RF antenna port	DVB-T/T2; IEC port
03) Headphone jack	3.5-mm stereo jack
04) Audio input	
05) Audio output (coaxial)	S/PDIF output
06) HDMI	
07) HDMI ARC	
08) 12 Volt / 24 Volt DC input	
09) Cinch	
10) On/Off switch	
11) USB 1 port	
12) USB 2 port	
13) CI / CI+ module slot	with dust cap
14) Ext I/R	Connection for external control
15) POWER	Press to switch the TV set into sleep mode / standby
16) INPUT	Selecting a source
17) VOL+	Volume up
18) VOL–	Volume down
19) CH+	Channel up
20) CH–	Channel down
21) MENU	Main menu

2. CONTROL ELEMENTS

COMMON INTERFACE (CI+) SLOT

The CI+ slot holds a Conditional Access Module (CAM) with a SmartCard, allowing you to watch programmes and use offerings provided by pay-TV stations. Contact your provider for more information about agreements and modules.

Note: Conditional Access Module and SmartCards are available separately.

⚠ **Caution! Switch your TV set off before inserting a module into the CI+ module slot.**

The CI+ module slot is located on the rear of your device. Push the CA module correctly into the slot and then insert the SmartCard into the CA module.
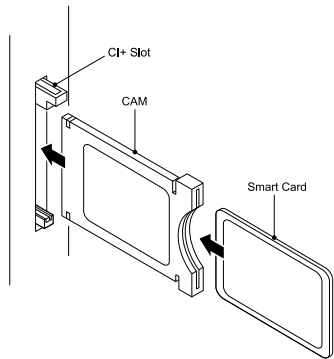
- Wait some minutes for the SmartCard to activate.

- Select the channel to be used with your SmartCard.

- The details of your SmartCard are shown.

- Press **OK** to open the SmartCard menu. Observe the instructions for manual settings supplied with your CI+ module.

- If the module is removed, the following message displays: **"CI module removed"**

- Switch the TV set on and select input signal "Digital TV".

- When the CA module is detected, the following message displays: **"CI module identified"**

2. CONTROL ELEMENTS

SIGNAL INPUTS

HDMI / AV Setup

The menus for HDMI or AV connections are similar to those of the standard TV reception, with the exception that you cannot change the channel settings.

If there is no signal when HDMI is selected as input source, the following screen is shown:

If no signal is found within 30 minutes, the system automatically switches into standby mode.

AUDIO INPUT

Select AV as input if you wish to use e.g. an MP3 player. The display will switch off after 30 minutes while the speakers remain active.

3. OPERATING THE SYSTEM

3.1 Switching the system on / off

Caution!

When switching on the "Oyster® TV" Premium system with integrated receiver, the antenna will start the automatic satellite search. The receiver needs up to one minute to initialise after being switched on. The antenna then folds up and starts the automatic satellite search.

Before switching on the "Oyster® TV" Premium system, make sure that the opening antenna does not face any obstacles such as branches or garage door.
Use the remote control to select a channel. The antenna will aim itself automatically.

For safety reasons, the antenna retracts when the ignition is switched on. Reactivating the antenna requires the "Oyster® TV" Premium system to be rebooted (switch the system off and back on).

SYNCHRONISING THE ANTENNA SYSTEM WITH THE RECEIVER

If the antenna retracts automatically for any reason, then switch off the "Oyster® TV" Premium system.

Automatic retraction may have the following causes:

- Automatic safety check of the antenna system

- Operating voltage below minimum value

- Ignition is switched on and off again after a short period

After the antenna has retracted, the "Oyster® TV" Premium system can be switched back on again.

3. OPERATING THE SYSTEM

3.2 Button functions

Button	Function
COUNTRY	Particularly after moving the vehicle over a greater distance, the time the antenna needs to find a satellite can be reduced by selecting the corresponding country. Press COUNTRY to open the "Select Location" menu. This menu contains 47 European countries. The country setting enables the automatic SKEW function, if this option was ordered. If you did not order the automatic SKEW option, see section "Reception in remote areas" (page 40).
PARK	Press the PARK button to retract the antenna. This may be useful e.g. in a storm. The TV remains active for use with external devices.
STOP	The STOP button stops the antenna in any position. **Notice: If you wish to keep your antenna unfolded, eg. when using a secondary TV, press the STOP button and switch off the "Oyster® TV" within 15 seconds by pressing POWER (Open Sleep).**
START	The START button will start the "Automatic Search". The system will search the satellite it was aimed at last. The START button cancels the function of the STOP button and the PARK button. To change the transponder frequency, press START, PARK, START, PARK, START in precisely this sequence.

Please note:

The STOP / PARK / START button is not required during normal operation. These buttons can be used to manually adjust the antenna orientation.

4. OPERATING THE "OYSTER® TV"

4.1 Initial setup

Your Oyster TV set is configured at the factory with a standard channel list and, depending on specifications, with favourite lists. (See section 4.5, Favourite lists (satellite TV) if you wish to create further lists.) Should any channels be missing or if you wish to add further channels, you need to start the automatic channel scan.

Select a signal source. If using a ten Haaft satellite system, DVB-S must be selected.

Press 🔘 to open the signal input menu.

Press 🔼 🔽 to select the input, then press 🆗 to confirm. If no source is selected using the 🆗 button, the system will automatically switch back to the current signal source after a few seconds.

Press 🔘 to exit the menu. The following signal inputs can be selected. Press the corresponding buttons on the remote control:

- Digital TV
- Satellite TV
- AV
- HDMI 1
- HDMI 2
- USB

4. OPERATING THE "OYSTER® TV"

4.2 General TV settings

TV SETUP MENU

The setup menu is used to adjust the TV set to your personal preference.

- Press the 🔘 button to select a display menu.
- Press 🔼 ▶ 🔽 ◀ to navigate in the menus.
- Press Exit or Setup to exit the setup menu.

IMAGE

In this menu you can change the picture settings of the "Oyster® TV". The following settings are available:

SOUND

In this menu you can change the sound settings of the "Oyster® TV". The following settings are available:

4. OPERATING THE "OYSTER® TV"

DIGITAL TV SETUP

In this menu you can adjust the general settings for the reception of digital TV. The following options are available:

Audio Language

Select your preferred primary and secondary language.

Subtitle Language

Set your preferred subtitling language.

Time zone

Here you can set the time zone.

CI Information

This menu option allows you to access the SmartCard in the Common Interface.

Antenna power (for amplified antennas)

This option enables or disables the power supply to the antenna.

4. OPERATING THE "OYSTER® TV"

LOCK

Here you can restrict the access to specific functions of the TV set. If the lock is enabled, you need to enter a password before you can make changes in locked areas.
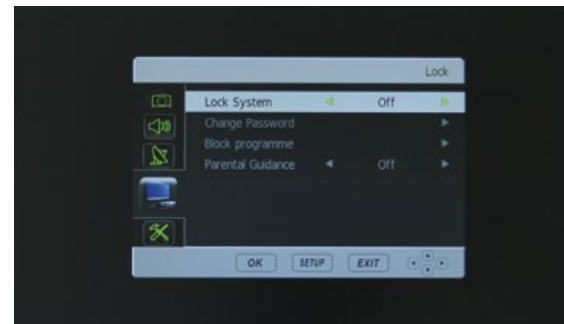
Lock System

Locks the system. Changing the settings requires a password.

Block programme

Locks the content and channels selected.

Parental Guidance

Restricts the programme according to viewer age. Only content suitable for the viewer age selected will then be offered. Various viewing ages are available.

Note: This option is not supported by all programme providers.

Change Password

Here you can edit your password.

Note: The default password is 0000.

4. OPERATING THE "OYSTER® TV"

FUNCTIONS

In this menu you can change the following options.

OSD Language

Changes the language of the display menus.

Aspect Ratio

The following options are available:

- Auto

- Zoom 1

- Zoom 2

- 16.9

- 4.3

Noise Reduction

Reduce or change image distortion and signal noise.

Sleep Timer

Here you can set the time at which you want the TV set to go off automatically. Use ◀ ▶ to select a time. Then press EXIT.

Auto Sleep

Allows you to enable or disable automatic standby after 4 hours (EC energy conservation option, enabled by default).

Reset

Resets the device to its default settings.

4. OPERATING THE "OYSTER® TV"

4.3 Channel settings and search (DVB-T / T2)

CHANNEL

This menu contains the channel settings.

DVB-T channel settings

Here you can adjust the channels and their settings.

Channel

Select the channel you wish to adjust.

Frequency

Cannot be changed.

Country

Cannot be changed.

Manual Search

Search and set the channel manually.

Auto Search

Here you can sort, delete and add entries to the favourite list.

Channel Edit

Here you can sort and delete channels or add them to the DVB-T favourite list.

4. OPERATING THE "OYSTER® TV"

FURTHER SETTINGS FOR DVB-T CHANNELS

When you switch the system on for the first time, the following screen is shown. Press ⬆ ▶ ⬇ ◀ to select a display language. Select "Auto Search" and press OK.

Note: The country setting cannot be changed.
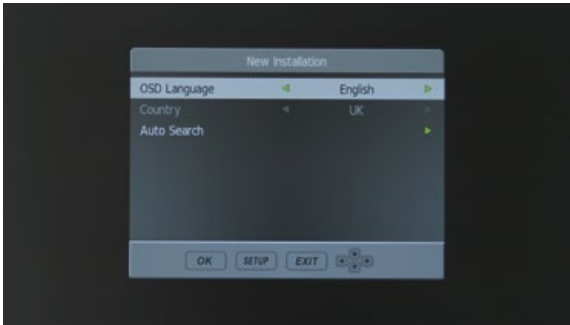
When this screen is shown, press ⬇ or ⬆ to select the line and ◀ and ▶ to select country or channel. Press OK to confirm your selection. The automatic search will start and must not be interrupted. Channels can only be received if a DVB-T antenna is connected (not included in the box).

4. OPERATING THE "OYSTER® TV"

When this screen is shown, wait until the scanning process finishes. This may take some minutes.
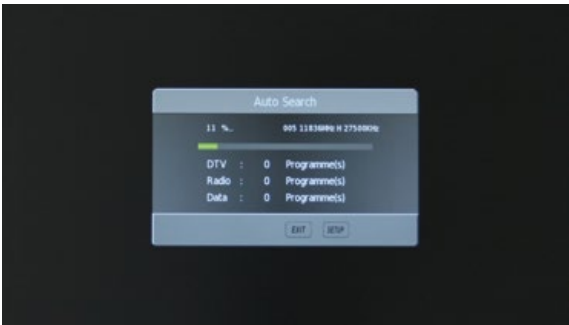
Once the search is completed, the system will determine the target region. If more than one regional channel is received, press ◀ ▶ to select the primary region and then press OK. Press EXIT to exit the menu.

Once the search is completed, the first available digital channel is displayed. All other available channels are shown in the programme list which you can open by pressing CHANNEL.

To repeat the scan for terrestrial TV stations (option, terrestrial antenna not included in supply), press and hold the "Auto Tune" (AQT) button. This will delete the existing channel list.

4. OPERATING THE "OYSTER® TV"

4.4 Channel settings and search (DVB–S / S2)

Select ⬡Source and switch to satellite TV. Press ⬡SETUP and use ⬡OK to select "Channels". Select ⬡OK and then the satellite you wish to scan. Check whether the signal and quality display shows any values. Switch to search option "Transponder" and press ⬡OK to start the search. The system then scans the entire satellite.

The scan adds all new channels found on the satellite to the end of the standard channel list.
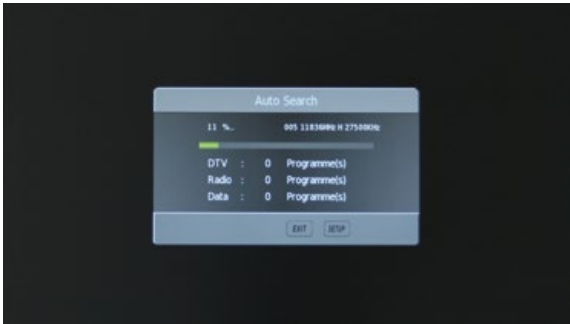
All channels can be sorted and changed to your preference.

4. OPERATING THE "OYSTER® TV"

FURTHER SETTINGS

Your system will find all free-to-air (FTA) or encrypted channels using the standard settings. If this is not the case, you can make changes to the satellite settings in the "Advanced Setup" menu. Wrong or incorrect settings in this menu may impair the correct function and operation of your system!

The "Advanced Setup" menu is password-protected. The default password is "0000".

ADDING A NEW TRANSPONDER

The system provides the option of adding new transponders to ensure that your TV is future-readycompatible with future developments. To add a new transponder, follow the instructions. Open the "Advanced Setup" menu. The default password is 0000.

Press ⬡GREEN to open the satellite and TP manager.

Select the satellite, then press ⬡ to view the transponder list.

4. OPERATING THE "OYSTER® TV"

Press 🔴 to add symbol rate, frequency and polarity.

Press 🆗 to save your settings.
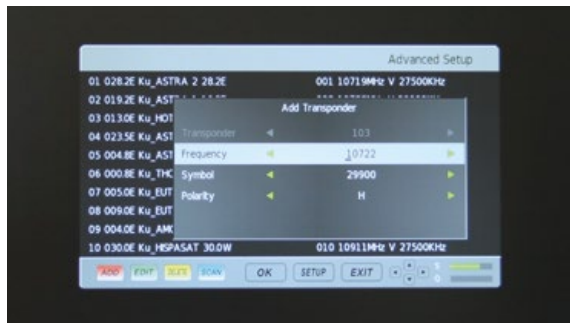
Press 🔵 to start scanning the new transponder. All new channels are added to the end of the channel list.
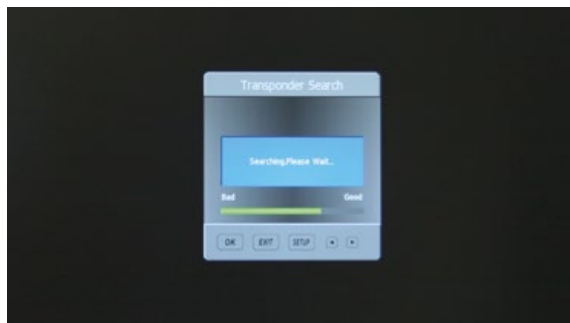
TROUBLESHOOTING SATELLITE SETUP (DVB-S)

1. **No channels were found, and the signal and quality display showed only small or no values at all.**

    Check all cables between TV and LNB. Make sure that the antenna is aimed at the right satellite and that the view is not obstructed by trees or other obstacles.

2. **Not all or the wrong channels were found during the search.**

    Make sure that the antenna is aimed at the correct satellite and that this satellite is set up in the menu.

3. **Block-shaped image distortion or audio dropouts during playback.**

    Check the "Channel" menu for signal loss and quality. Even a minor antenna misalignment can cause a major loss of reception performance. Mind that the cable should not be too long. Note that different satellites may require an antenna of different size.

4. **Signal loss at light rain or snow.**

    This issue is usually caused by an insufficient signal. Check the aiming of the antenna and its size.

5. **Signal is lost during windy periods.**

    Check the antenna for secure attachment. It should not move. Make sure that no obstacles such as trees obstruct the antenna's view.

6. **Subtitle and audio track are in the wrong language.**

    Check the language settings in the menu.

7. **Adding a new channel that is not found via the scan**

    You need to add a new transponder. Observe the information in the corresponding part of this manual.

4. OPERATING THE "OYSTER® TV"

EDIT CHANNELS (SATELLITE TV MODE)

Press [SETUP] to open the menu and select "Channel". Select "Channel Edit". Press [▲] [▼] or [PAGE+] [PAGE-] to select a channel. Use the colour buttons to choose the following settings:

Red

Press [RED] to delete a channel. Use [▲] [▼] to select it. Press [OK] to delete the channel selected.

Yellow

Use [YELLOW] to move channels. Use [▲] [▼] to move the channel selected to a different position. Press [OK] to permanently store the channel in this new position.

Blue

If you wish to skip a channel when zapping channels, select this channel and press [BLUE]. The channel can now only be accessed directly by entering the corresponding number.

Green

Press [GREEN] to delete the entire channels list.
Caution! The system may then no longer be able to find a satellite!

EDITING CHANNELS (DIGITAL TV MODE)

Press [▲] [▼] or [PAGE+] [PAGE-] to select a channel. Use the colour buttons to choose the following settings:

Red

Press [RED] to delete a channel. Use [▲] [▼] to select it. Press [OK] to delete the channel selected.

Yellow

Use [YELLOW] to move channels. Use [▲] [▼] to move the channel selected to a different position. Press [OK] to permanently store the channel in this new position.

Blue

If you wish to skip a channel when zapping channels, select this channel and press [BLUE]. The channel can now only be accessed directly by entering the corresponding number.

FAV

Press [FAV] to add a channel to the DVB-T favourite list.

4. OPERATING THE "OYSTER® TV"

4.5 Favourite list (satellite TV)

Creating a new favourites list: Press [SETUP] to open the menu and select "Channel". Select "Favourite list". Press [FAV] repeatedly to scroll the favourite lists until a blank list is shown. The first two favourite lists are configured with alternative channels at the factory (see section 4.1 Initial setup).

Use [▲] [▼] to scroll through the channels and press ADD ([RED]) to add the channel to the list. Stations are added to the end of the list. Sorting the stations retroactively is not possible.

Channels already added are marked by a heart-shaped symbol.

4.6 Further functions

VIDEOTEXT (NOT PROVIDED BY ALL CHANNELS)

Videotext is an information system you can view on your TV set. You can use the corresponding control buttons to open the pages listed in the index.

Note: While videotext is shown, no display menus can be opened. Colour, contrast and brightness settings are not available, only the volume can be adjusted.

Press [TEXT] to start videotext. The index page is usually shown first.

Pressing [TEXT] again will close videotext, and the TV programme of the selected channel will be shown again.

Mixed view

If you have started videotext, you can press "Mix" [SUBT] to switch it into transparent mode, enabling you to see the programme at the same time.

Hide

Press "Cancel" [AUDIO] to completely hide videotext without exiting it.

Selecting a page

- To navigate to a videotext page, use the number buttons to enter the corresponding number. The numbers are shown in the upper left corner of the display. The page search is started.

- To return to the index page, press "Index" [PAGE+].

- To select a subpage, press "Subpage" [PAGE-].

Subtitles

To show subtitles during normal TV mode, select videotext page 150. If the programme provides subtitles, these will be shown at the bottom of the screen.

- Press `TEXT` to exit videotext mode.

Revealing information

- Press "Reveal" `FAV` to show hidden information (answers in quiz shows etc.).

- Press "Reveal" again to exit this mode.

Quick access

Categories sorted by colour and subject are shown at the bottom of the videotext screen (`RED`, `GREEN`, `YELLOW`, `BLUE`).

- You can access these categories by pressing the buttons of the corresponding colour.

- Press "Index" to return to the index page.

Holding the page

If you have opened a page with subpages in videotext mode, then these subpages are opened automatically in sequence.

- Press "Hold" `INFO` to stop the sequence and remain at the currently shown page. The "Hold" symbol is shown in the upper left corner.

- To continue scrolling through the subpages, press "Hold" again.

Zooming in videotext

- Press "Size" to zoom in the videotext displayed. The page is split into two halves.

- Press "Size" again to view the second half of the page.

- To return to normal view, press "Size" `TV/1` a third time.

Digital text (Great Britain only)

Digital text is an information system you can view on your TV set.

Note: While digital text is shown, no display menus can be opened. Colour, contrast and brightness settings are not available, only the volume can be adjusted.

Note: Make sure that the channel selected transmits digital text.

Follow the instructions on screen.

- Press `TEXT` to start digital text.

- Use `▲` `▼` to select a page and confirm with `OK`. Alternatively, you can also navigate to a page using the number buttons.

- Use `◄` `▶` `▲` `▼` to navigate in the digital text.

- Use the colour buttons `RED`, `GREEN`, `YELLOW` and `BLUE` to directly access individual options.

- To exit digital text, press `EXIT` or `TEXT`.

SUBTITLES

If a channel broadcasts subtitles, press `SUBT` to show them. To change the language, press `▲` `▼` and then `OK` to confirm.
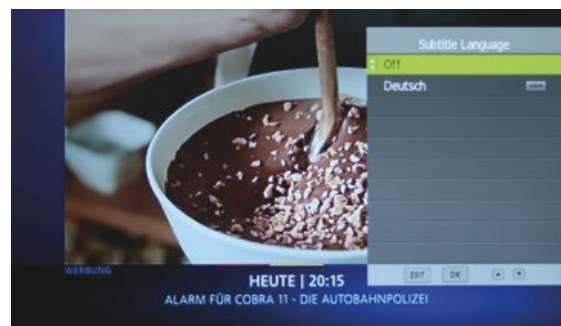
PROGRAMME INFORMATION

You can display information about the programme you are currently watching by pressing `INFO`. The following image shows an example of typical programme information.
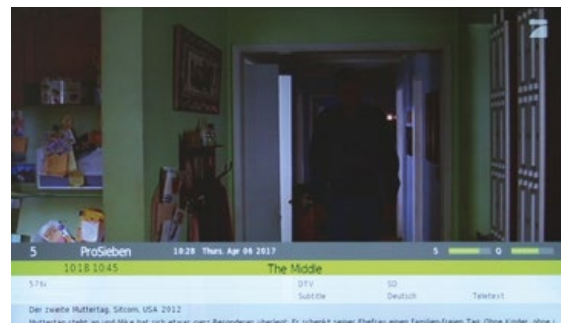
To view information about subsequent programmes, press `▶`.

AUDIO

You can select the audio language and track by pressing AUDIO.
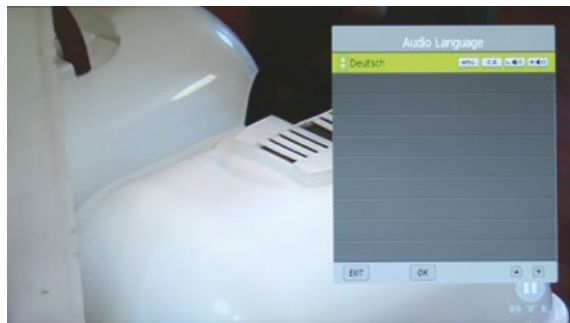
Select a language using ▲ ▼ and press OK.

Electronic Programme Guide (EPG)

The EPG provides information about ongoing and upcoming programmes of the channel selected.

Press EPG to open the EPG. The following menu opens:
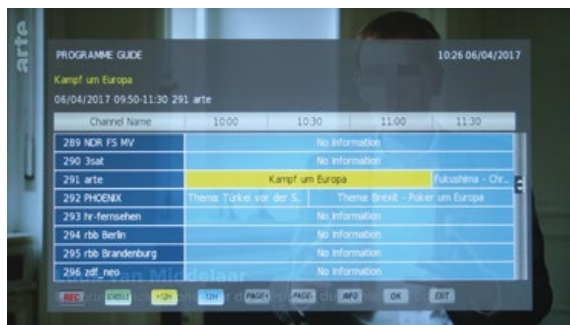
Use ▲ ▼ or PAGE+ PAGE- to navigate through the channels and programmes. Press ◄ ► to navigate to the subsequent events in the EPG. The number of days shown in the EPG may vary between channels (max. 7 days).

Use OK to switch to the channel selected, however, this is only possible for the first event in the EPG as the other ones have notstarted yet. Press "Guide" or EXIT to exit the EPG.

4.7 Technical data of "Oyster® TV"

ten Haaft TV Geräte	„Oyster® TV" – 19"	„Oyster® TV" – 21,5"	„Oyster® TV" – 24"	„Oyster® TV" – 32"
Type	L199TRS	L219TRS	L249TRS	L329TRS
EU energy efficiency class	A	A	A	A
Display size	19,5" / 49,5 cm	21,5" / 55 cm	23,6" / 60 cm	32" / 81 cm
Power consumption during operation	20 W max.	23 W max.	23 W max.	37 W max.
Annual power consumption in kWh / year*	29 kWh / Jahr	34 kWh / Jahr	34 kWh / Jahr	54 kWh / Jahr
Power consumption in standby / off	< 0,5 W	< 0,5 W	< 0,5 W	< 0,5 W
Resolution (pixel)	Full HD 1920 x 1080	Full HD 1920 x 1080	Full HD 1920 x 1080	Full HD 1920 x 1080
Viewing angle H / V / response time	176° / 176°	178° / 178°	178° / 178°	178° / 178°
Brightness	250 (cd / m²)	250 (cd / m²)	250 (cd / m²)	230 (cd / m²)
Kontrast	3000:1	3000:1	3000:1	1200:1
Tuner	DVB-S2, DVB-T2 HD/H.265**	DVB-S2, DVB-T2 HD/H.265**	DVB-S2, DVB-T2 HD/H.265**	DVB-S2, DVB-T2 HD/H.265**
Loudspeaker music power	2 x 2 W	2 x 2 W	2 x 2 W	2 x 2 W
Dimensions with base (W x H x D) Dimensions without base (W x H x D)	44,8 x 27,7 x 10,5 cm 44,8 x 25,8 x 4,6 cm	49,2 x 30,7 x 12,5 cm 49,2 x 28,8 x 4,6 cm	53,3 x 33,3 x 12,5 cm 53,3 x 31,4 x 4,7 cm	73 x 47,2 x 6,1 cm 73 x 43,2 x 6,1 cm
Weight with base / without base	~ 2,7 kg / ~ 2,6 kg	~ 3,1 kg / ~ 3 kg	~ 3,5 kg / ~ 3,4 kg	~ 5,8 kg / ~ 5,6 kg
VESA standard	100 x 100 mm	100 x 100 mm	100 x 100 mm	200 x 100 mm
Operating voltage (1 with power adapter only)	12 V DC / 24 V DC / 230 V AC¹	12 V DC / 24 V DC / 230 V AC¹	12 V DC / 24 V DC / 230 V AC¹	12 V DC / 24 V DC / 230 V AC¹
Type Approval	(E9) 10R - 05. 11997	(E9) 10R - 05. 11997	(E9) 10R - 05. 11996	in processing

Ports

HDMI	✔	✔	✔	✔
HDMI ARC	Audio Return Channel (ARC)	Audio Return Channel (ARC)	Audio Return Channel (ARC)	Audio Return Channel (ARC)
2 x USB 2.0	Video / audio / photo	Video / audio / photo	Video / audio / photo	Video / audio / photo
3 x Cinch (RCA)	-	-	-	analog Audio / FBAS in
3.5-mm stereo jack	Headphone socket	Headphone socket	Headphone socket	Headphone socket
Digital audio output, coaxial (RCA)	✔	✔	✔	✔
On/Off mains switch	✔	✔	✔	✔
CI / CI+ module slot	✔	✔	✔	✔
Audio input	-	-	-	✔
AV input	✔	✔	✔	-

Scope of supply

TV set with base	✔	✔	✔	✔
System-dedicated remote control	✔	✔	✔	✔
Power cable 12 V / 24 V (with connector for vehicle power outlet)	✔	✔	✔	✔
Mains power adapter 110 V ... 240V AC with EURO Schuko plug	✔	✔	✔	✔

5. SERVICE

5.1 Reception in practice – aiming the satellite system

Satellite antennas are aimed at a satellite along three adjustment planes:

1. AZIMUTH ANGLE (COMPASS HEADING)

The azimuth angle defines the horizontal setting of the antenna, specifying the angle between North and antenna heading. It depends on the geographic position of the receiver and the satellite selected.

For example, Astra 1 (orbital position 19.2° East) has an azimuth of 173° in Berlin but 143° in southern Spain.

2. ELEVATION ANGLE (INCLINATION)

The elevation angle indicates the height of the satellite above the horizon. Like the azimuth angle, it depends on the position of the receiver and the satellite selected. In Central Europe, it is typically between 25° to 35°, decreasing as you move further North.

3. SKEW ANGLE (POLARISATION DEVIATION)

For optimal reception at the fringe of the satellites' footprints in southwestern and southeastern regions, the LNB may have to be rotated to compensate for the polarisation deviation caused by the earth's curvature.

Oyster® systems are available with the optional SKEW function for automatic LNB adjustment.

OBSTACLES IN FRONT OF THE ANTENNA

At 42° elevation (southern Spain)
a 9 metre high tree that is 10 metres
away will not affect reception.
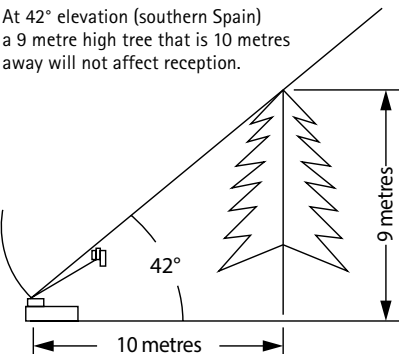
At 28° elevation (northern Germany)
a 5.3 metre high tree that is 10 metres
away will not affect reception.
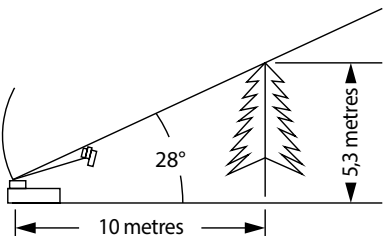
5. SERVICE

5.2 Reception in remote areas

LNB SETTINGS IN DIFFERENT REGIONS:

The following settings are needless at Oyster SKEW units. This section describes how to fine-tune the LNB to optimise reception in the fringe of a TV satellite's footprint. This requires loosening the LNB or antenna bolts and turning either component by a specific angle. This is only required in the fringe areas of a satellite's footprint. It should be performed by expert users only. Most satellites broadcasting channels of interest to Central European viewers are aimed at Central Europe. In locations outside this area, the antenna has a "sideways view" on the satellite. This effect is known as the "SKEW angle" or "polarisation angle" and occurs particularly in southern regions such as Portugal, Spain, Morocco, Greece, Turkey, and most extremely on the Canary Islands. The effect is mostly compensated by the receiver's electronics, but sometimes some manual fine-tuning is required by pivoting the LNB (reception head) or the entire flat-panel antenna by some degrees.
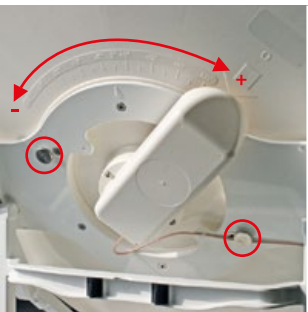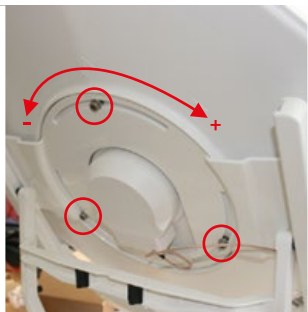
CYTRAC® DX   CARO®+   OYSTER®

5. SERVICE

OYSTER®:

The following definitions apply to the tables and specified angles below: To determine the direction of rotation, the viewer must look at the front face of the antenna as does the LNB, i.e. the viewer must be standing in front of the antenna. The long lines indicate increments of 10°.

- A rotation in CLOCKWISE DIRECTION is positive (+). | A rotation in COUNTERCLOCKWISE DIRECTION is negative (–).

- A rotation in "+" direction means that the BOTTOM of the LNB is turned to the LEFT.

- A rotation in "–" direction means that the BOTTOM of the LNB is turned to the RIGHT.

CARO®+ / CYTRAC® DX:

The following definitions apply to the tables and specified angles below: To determine the direction of rotation, the viewer must look into the direction of the satellite, as does the antenna, i.e. the viewer must be standing behind the antenna or on its side.

- Rotations in CLOCKWISE DIRECTION are negative (–).

- Rotations in COUNTERCLOCKWISE DIRECTION are positive (+).

- A rotation in "–" direction means that the BOTTOM of the antenna is turned to the LEFT.

- A rotation in "+" direction means that the BOTTOM of the antenna is turned to the RIGHT.

5. SERVICE

LNB settings in different regions:

Country	Eutelsat W5 5° West	Thor 0.8° West	Astra 4 4.8° East	Hotbird 13° East	Astra 1 19.2° East	Astra 3 23.5° East	Astra 2 28.2° East
Germany, Austria, Switzerland	–23°	–16°	–12°	–6°	0°	4°	8°
France	–15°	–11°	–5°	2°	7°	11°	14°
Benelux region	–16°	–12°	–8°	–2°	3°	6°	9°
England	–9°	–6°	–3°	3°	7°	10°	12°
Ireland	–6°	–3°	1°	7°	11°	13°	16°
Portugal	–4°	1°	8°	16°	22°	25°	28°
Southern Spain, Gibraltar	–8°	–3°	5°	14°	20°	24°	28°
Scandinavia	–19°	–16°	–14°	–9°	–6°	–4°	–2°
Greece	–38°	–35°	–29°	–20°	–12°	–7°	0°
Turkey, Ukraine, Belarus	–39°	–36°	–31°	–26°	–20°	–15°	–11°
Canary Islands	12°	18°	26°	34°	39°	42°	44°
Morocco	–8°	–2°	6°	17°	23°	27°	31°
Italy, Sicily	–27°	–24°	–17°	–8°	–2°	3°	8°
Croatia	–27°	–24°	–19°	–11°	–5°	–1°	4
Tunisia, Libya	–27°	–22°	–15°	–4°	4°	9°	15°

Note: The SKEW angles provided are for reference only. Adjustments of less than 8° are usually not necessary as long as reception is undisturbed. The fine-tuning of the SKEW angle often allows the reception of satellites in areas actually outside of their footprint. The footprints of the individual satellites can be found at www.lyngsat.com or www.satcodx.com. Both websites provide interesting general information about the channels and footprints of the various satellites.

5. SERVICE

5.3 Troubleshooting

Stop function

It must be possible to stop the antenna motion at any time. To stop or interrupt a satellite search, press the OK button (stop function) of the control panel, the power button of the remote of the Oyster TV or the power button of the FeatureBox (only at the Oyster® V). After either of these buttons has been pressed no control functions will be executed.

Resetting the stop function

To cancel the stop function, please press the OK button (stop function) of the control panel, the power button of the remote of the Oyster TV or the power button of the FeatureBox (only at the Oyster® V).

Error Description	Trouble-shooting
No satellite was found during search.	Do you have a clear view to the south? Are you inside the footprint of the satellite being searched? Does your position require the LNB's SKEW angle to be adjusted?
The antenna does not retract or unfold properly.	Is the motion obstructed by obstacles? Is the supply voltage too low (weak battery)?
The antenna does not react after activation or does not respond to commands.	Is the fuse OK? Are all cables properly connected?

6. APPENDIX

6.1 Declaration of conformity

Konformitätserklärung
Declaration of Conformity
Déclaration de Conformité

Wir, der Hersteller   We, the manufacturer   Nous, le fabricant souscrit

ten Haaft GmbH
Oberer Strietweg 8
D 75245 Neulingen
Germany / Allemagne

erklären hiermit, dass die Produkte: declare hereby that the products: dédrarons par la présente que les produits:

Cytrac DX VISION   / Cytrac DX HDTV   / Cytrac DX CI+   / Cytrac DX Premium
CARO + VISION   / CARO + HDTV   / CARO + CI+   / CARO + Premium

Single / Twin

sowie deren Varianten, wahlweise mit oder ohne den im Gesamtsystem einzeln ab Werk verbauten Optionen
as well as their variants, either with or without the individually ex works in the integral system installed options
ainsi que leurs variantes, éventuellement avec ou l'ensemble du système individuellement des options installées en usine

den wesentlichen Anforderungen der folgenden Vorschriften entsprechen und somit ein CE-Zeichen in Übereinstimmung mit der EMV-Richtlinie 2004/108/EC sowie der KFZ Richtlinie UN/ECE Regulation Nr. 10 Rev.4 (+Anhang 1) führen.
are in compliance with the following specifications and bear the CE-Mark according to the provisions of the Electromagnetic Compatibility (EMC) Directive 2004/108/EC as well as the Motor Vehicle Agreement UN/ECE Regulation No. 10 Rev.4 (+Addendum 1)
sont conformes aux spécifications suivantes et portes la marque CE selon les lignes directrices de la Compatibilité Electromagnétique (EMC) Numéro 2004/108/EC ainsi que la directive de l'automobile UN/ECE régulation Numéro 10 Rev. 4 (+Annexe 1):

Die Anlagen erfüllen die folgenden im Einzelnen genannten harmonisierten Normen
The systems meet the harmonised standards individually listed below
Les produits répondent aux normes suivants mentionnés dans la fiche harmonisée

EN61000-6-3:2007+A1:2011   ISO 11452-2 (2004)
EN61000-6-1:2007   ISO 7637-2 / 2004

Neulingen, den 17. Oktober 2014

Roman Bittigkoffer
Geschäftsführer

Konformitätserklärung
Declaration of Conformity
Déclaration de Conformité

Wir, der Hersteller   We, the manufacturer   Nous, le fabricant souscrit

ten Haaft GmbH
Oberer Strietweg 8
D 75245 Neulingen
Germany / Allemagne

erklären hiermit, dass die Produkte: declare hereby that the products: dédrarons par la présente que les produits:

Oyster 65 Premium   Oyster 85 Premium

SKEW / Single / Twin

sowie deren Varianten, wahlweise mit oder ohne den im Gesamtsystem einzeln ab Werk verbauten Optionen
as well as their variants, either with or without the individually ex works in the integral system installed options
ainsi que leurs variantes, éventuellement avec ou l'ensemble du système individuellement des options installées en usine

den wesentlichen Anforderungen der folgenden Vorschriften entsprechen und somit ein CE-Zeichen in Übereinstimmung mit der EMV-Richtlinie 2004/108/EC sowie der KFZ Richtlinie UN/ECE Regulation Nr. 10 Rev.4 (+Anhang 1) führen.
are in compliance with the following specifications and bear the CE-Mark according to the provisions of the Electromagnetic Compatibility (EMC) Directive 2004/108/EC as well as the Motor Vehicle Agreement UN/ECE Regulation No. 10 Rev.4 (+Addendum 1)
sont conformes aux spécifications suivantes et portes la marque CE selon les lignes directrices de la Compatibilité Electromagnétique (EMC) Numéro 2004/108/EC ainsi que la directive de l'automobile UN/ECE régulation Numéro 10 Rev. 4 (+Annexe 1):

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EN61000-6-3:2007+A1:2011   ISO 11452-2 (2004)
EN61000-6-1:2007   ISO 7637-2 / 2004

Neulingen, den 17. Oktober 2014

Roman Bittigkoffer
Geschäftsführer

6. APPENDIX

6.2 Notes on the protection of the environment

EC End-of-Life Vehicle Directive

The antenna system is certified and intended for use as an accessory of a motor vehicle. The system may be disposed of together with the vehicle in accordance with the End-of-Life Vehicle Directive ELV, 2000/53/EC. The antenna system does not contain any materials rated as hazardous to the environment according to the directive.

We hope your satellite system brings you lots of joyful entertainment hours.

Your ten Haaft team

NOTES