



Vision III

OPERATOR MANUAL

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1. GENERAL INFORMATION

1.1 Introduction

These operating instructions describes the functions of the automatic satellite system and how to operate it. Please observe the information on how to install the system provided in the installation instructions supplied with the system.

Correct and safe operation of the system can only be ensured if both the installation instructions and the operating instructions 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 any location in 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 6.1: "Reception in practice – aiming the satellite system")

The first pages of these instructions explain the general system features, followed by an explanation of the setup options.

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

1.2 Scope of supply

Control panel; control unit; external unit with antenna – optional 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 permissible maximum speed of 130 km/h.

It is designed to automatically aim a vehicle-mounted antenna at a geostationary television satellite 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 manufacturer has designed your satellite system to be connected to standard on-board electric systems with a rated voltage of 12V / 24V DC.

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

Please also observe the following instructions from the manufacturer:

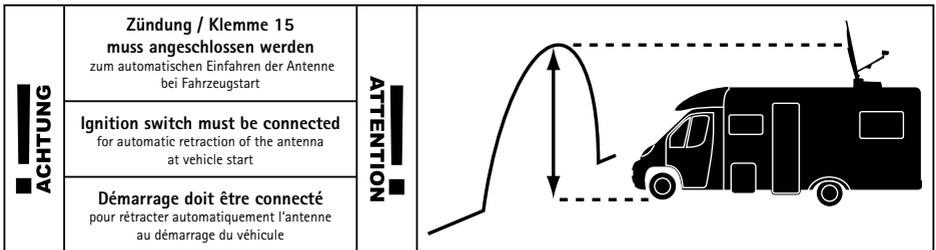
- The system must only be installed on hard vehicle roofs which are sufficiently strong and inherently stable. Observe all relevant and approved guidelines of the automotive industry.
 - The product does not require any regular maintenance. Opening housings and enclosures is not permissible. Inspection and maintenance may only be performed by a qualified professional.
 - Do not wash your mobile home or camper trailer with the mounted satellite system in a single-bay or drive-through car wash using brushes, 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 the original parts is not permissible.
 - Installation must only be performed by sufficiently qualified personnel. The installation instructions supplied as part of the operating instructions must be followed carefully. If you encounter any problems, or if you are unsure about anything, please contact the manufacturer or an authorised service partner.
- ⚠ Retract the system during storms (75 – 80 km/h; 8 Beaufort).
- ⚠ If the vehicle moves or is transported in reverse at speeds exceeding 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, page 5).

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 circuit of your vehicle (see installation instructions).

When correctly installed, the antenna automatically returns to and locks into its parking position when the ignition is switched on. If the system does not retract at all or cannot 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.



⚠ 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 antenna 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 such equipment, you are responsible for ensuring compliance with the applicable laws and regulations.

STOP FUNCTION VIA THE CONTROL PANEL AND ISOLATION FROM OPERATING VOLTAGE DURING SERVICE WORK

The selector button on the control panel stops the motion of the antenna. In stop mode, no DiSEqC™ receiver commands or control commands are executed.

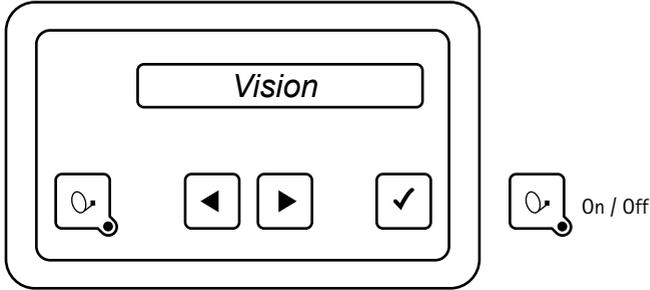
To cancel the stop mode, use at the control panel to scroll to menu option "Automatic search" and press selector button again or press the On/Off button . This causes the antenna to retract. When servicing the antenna system, make sure that the entire system is disconnected from operating voltage.

If the system is reconnected to the power supply, the control panel will display "**activate**" after pressing the On/Off switch . Press to confirm. The antenna now unfolds.

2. CONTROL ELEMENTS

2.1 Getting started

All system functions are controlled via the control panel.



You may choose any location you like to install the control panel, but please bear in mind that it is not water-proof. You may still need to remove the protective film from the display.

The display of the control panel will show the various operating modes of the system. We recommend you to install the control panel in a location where the display is clearly visible.

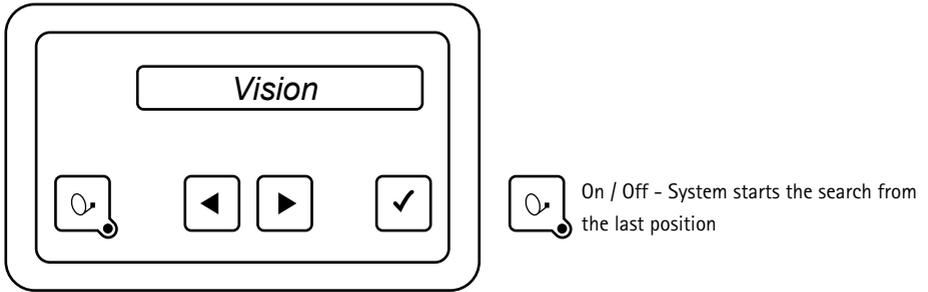
The display is illuminated, so it is not a problem if it is installed in a very dark location.

To ensure safe and reliable operation of the system, please make sure the external unit is in rest mode before disconnecting the control panel. Check that no text is shown in the display – this is an indication that the system is in rest mode.

Installation, wiring and initial use of your Vision system are explained in a separate manual "Installation instructions".

2. CONTROL ELEMENTS

2.2 Switching the system on / off



There are two ways of switching the Vision III antenna system on and off:

At the  button on the control panel or by switching the receiver on and off. If you wish the system to respond when switching the receiver on or off, then menu item "Receiver control" must be enabled. See chapter 4.4 "Receiver control", page 14.

After switching on the system, the antenna unfolds and returns to the last position in which a satellite signal was received. If the vehicle position has changed since, the system will not receive any signals and the automatic search will start.

To switch the system off, press button  again to retract the system and send it into rest mode.

If you would like to stop the antenna motion while it is opening or retracting, simply press . The antenna will stop immediately.

Notes:

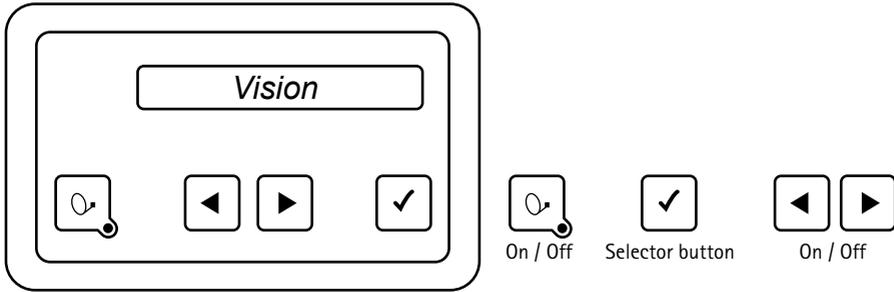
Do not forget to switch off your TV set or, if applicable, the receiver.

If the message "Manual search" is displayed after the antenna has opened, and if the system does not commence the search automatically, then the system was being operated in manual mode when it was last switched off.

Please refer to section "Automatic search" on page 10 and "Manual search" on page 12.

2. CONTROL ELEMENTS

2.3 Menu controls



The arrow keys  and  are used to navigate through all levels of the menu.

With the aid of these keys you can select a submenu, function or setting.

Press  to enable the displayed menu item. Within the setting options, you can change the displayed values within set limits by pressing the arrow keys  and .

Then press  to accept the adjusted value and return to the selection level.

Use  to return to the selection level without saving the data.

By selecting menu option "Return" and pressing  you can go back up one level in the menu structure.

USB PORT

Your control panel is fitted with a mini-USB interface and comes with a micro-USB-OTG cable adapter. The software of the Vision III control box can be updated using the OTG adapter or a USB stick.

For further information about updates see www.ten-haaft.com/rmc/updates.

3. OPERATING THE SYSTEM

3.1 Menu tree

The functions of the keys are explained in section "Menu operation".

SAT mode	Press <input checked="" type="checkbox"/> to display the search satellite of the automatic search
SAT swap	Press <input checked="" type="checkbox"/> to select a satellite. 4 satellites can be configured.
Auto Search	Press <input checked="" type="checkbox"/> to start the automatic search for the satellite specified in menu option "Search satellite"
Manual search	Manual control of the antenna dish Signal optimisation
Location	Selection of a location from a list; reduces the time needed to find the search satellite
Main menu	Press <input checked="" type="checkbox"/> to access the settings levels
General settings	Press <input checked="" type="checkbox"/> to access the submenu options of the General settings
Language	Language menu
Dimmer	Display lighting
Colour	Selection of the display colour scheme
Receiver control	Receiver-controlled antenna start: "Auto off"; "Standby"; "Sleep"
Aux-Relays	Basic setting: active, off: reduction of bias-current
MotorSW Update	Update of the system's motor controller circuit board
Upgrade Premium	Upgrade of the system to the Premium functionality ("Oyster® TV" required)
Service info	Serial number V III tuner info, antenna type, model variant, FPGA version, control panel version, error number
Back	Press <input checked="" type="checkbox"/> to return to main menu
Satellite settings	Press <input checked="" type="checkbox"/> to access the submenu options of the "Satellite settings" level
Search satellite	Specification of the search satellite for the automatic search
DiSEqC: On/Off	View DiSEqC function on/off Satellite change via receiver
DiSEqC on <>	DiSEqC function on/off
DiSEqC V3-ID	Viewing or assigning a Vision III DiSEqC ID to a specific satellite,
e.g. ASTRA 1	Select satellite
DiSEqC V3: <001>	Setting the DiSEqC ID number
DiSEqC Rec-ID	Receiving the receiver DiSEqC ID
DiSEqC Rec: 001	Display of receiver DiSEqC ID
DiSEqC Data	DiSEqC transfer protocol
D: 00 00 00 00 *	Display of the DiSEqC transfer protocol
Sat. Position	Programming the satellite for the SAT swap function
Satellite position 1 - 4	Four satellite position can be configured
ASTRA 2	Selection: 16 satellites
Back	Press <input checked="" type="checkbox"/> to return to main menu

} for diagnostic purposes only

3. OPERATING THE SYSTEM

3.2 Automatic search

After switching the system on with the  key, the antenna opens and moves into the position in which a satellite was last received.

If no satellite is found, the system starts the automated search for the specified satellite.

When the search satellite is found, the search function stops and the TV signal is looped through. A satellite search usually takes less than 1 minute, but may take longer depending on the position of the parked vehicle.

If a reference transponder on the satellite fails or if it cannot be received at your current location, the system will start a teach-in routine that may take 15 - 25 minutes.

If no TV picture appears after this extended search period, you are most likely located in an area where the specified satellite cannot be received or the signal beam is obstructed. In this case, the message "No satellite found" appears in the display of the control device.

During the satellite search, the display will alternately show "Automatic search" and the name of the "Search satellite".

The automatic search function always assumes that your vehicle is perfectly level. Otherwise, the search might take longer.

If the antenna is already open, the automatic search function is started as follows:

- Press  until the message "Automat. search" appears in the display.
- Press .

In general, the satellite receiver must not be connected or switched on to perform a satellite search.

3.3 SAT mode

This display indicates that the system is in signal reception mode. Press  to display the currently received satellite.

3.4 Entering the position

"Enter position" is a selectable option of the main menu. Press button  to access a list of countries, and use buttons   to scroll the list, then press  to select your location.

The antenna is then optimally adjusted for the satellite scan from your current location (SKEW* and inclination angle).

*System with SKEW option or automatic SKEW function only.

3. OPERATING THE SYSTEM

3.5 Satellite swap

PERFORMING A QUICK SATELLITE SWAP VIA THE CONTROL PANEL

Up to four favourite satellites can be configured in the "Satellite swap" menu. These satellites can then be directly selected using the OK button.

The option "SAT position" is used to configure the favourite satellites for the four positions in the "SAT swap" menu.

Setting path: "Main menu", "SAT settings" and "SAT position". Here, after setting a position (1...4), you can select a satellite from the satellite list and then save it.

CONFIGURING THE SATELLITE FOR THE SAT SWAP FUNCTION

Auto Search	Press <input checked="" type="checkbox"/> to start the automatic search for the satellite specified in menu option "Search satellite"
SAT swap	Press <input checked="" type="checkbox"/> to select a satellite. 4 satellites can be configured
SAT mode	Press <input checked="" type="checkbox"/> to display the search satellite of the automatic search
Selection of position	Selection of a location from a list; reduces the time needed to find the search satellite
Manual search	Manual control of the antenna dish Signal optimisation
Main menu	Press <input checked="" type="checkbox"/> to access the settings levels
General settings	Press <input checked="" type="checkbox"/> to access the submenu options of the General settings
Satellite settings	Press <input checked="" type="checkbox"/> to access the submenu options of the "Satellite settings" level
Search satellite	Specification of the search satellite for the automatic search
Satellite position	Programming the satellite for the SAT swap function
Satellite position 1 - 4	Four satellite positions can be configured
ASTRA 2	16 satellites can be selected

When using the satellite swap feature, the system adjusts the antenna directly to the corresponding satellite position.

Direct satellite positions can only be configured if the new position has been previously set and is known to the system. Otherwise, the antenna will perform the same way as it does when doing an "Automatic search". This means that it first moves to X position "0" to start the satellite search from this point.

3. OPERATING THE SYSTEM

3.6 Manual search

If you wish to receive signals from a new satellite that is not yet stored as a search satellite in the control unit, then the manual search function can be used to tune the system to this satellite.

First switch your receiver to a preset station transmitted by the satellite selected.

At the control device, press  repeatedly until "Manual search" appears in the display.

Level 1	Sub-level A	Sub-level B
Manual search Press  to access sub-level A and select an option. Note: Press the SAT key  to return to the previous level	Press  or  to select an option	Press  and  to edit the option
	Elevation "up / down" Press  to edit the option	Tilt angle Press  and  to edit the data Press  to go back to sub-level A
	Azimuth "left / right" Press  do edit the option	Pan angle (degrees) Press  and  to edit the data Press  to go back to sub-level A
	SKEW "LNB angle" Press  do edit the option	LNB skew angle Press  and  to edit the data Press  to go back to sub-level A
	Save "store <> exit" Press  to save the data and return to SAT mode (level 1)	

In this menu you can save the data by pressing OK. "Saved" is shown briefly. Pressing the SAT key does not save the data!

In both cases the system will exit the manual programming mode and return to the next upper menu level ("Manual search").

3. OPERATING THE SYSTEM

3.7 Main menu – Access to Settings

The "Main menu" is available in the general menu. In "Main menu", press to access the settings levels.

3.8 Restarting the system

As with any other computer-controlled device, it is possible for the software in your system to "crash". This may be caused by external influences, e.g. strong electromagnetic interference, or previously undetected software errors.

If you think that your system is responding incorrectly or it is not responding at all, we recommend restarting the microprocessor. This can be done in two different ways and in any system state:

- If the fuse in the control unit is easily accessible, pull the fuse and put it back into its holder after a few seconds.
- RESET function: To reset the Vision III control unit, press and hold all four keys (Sat key, both arrow keys and OK) simultaneously for approx. 2 seconds.

In both of the cases described above your system will perform an internal restart.

If the system is open, it will now retract. After restarting, the system will be in standby mode. It can then be started in the usual way by pressing the button.

⚠ Note! The vehicle's switched ignition voltage via terminal 15 has ultimate priority. When the ignition is switched on or if the engine is started, the antenna will always close and can only be operated again after the ignition has been switched off.

4. GENERAL SETTINGS

4.1 Service INFO

This menu item provides information for servicing purposes.

- Serial number
- V III tuner info
- Antenna type
- Model variant
- FPGA version
- Control panel version
- Error number

4.2 Language

Selection of the language for the texts displayed on the control device.

4.3 Dimmer

Changing the brightness of the background illumination:

The brightness of the background illumination can be adjusted between MIN and MAX to your preference. To save power, the illumination is switched off after approx. 1.5 minutes.

The backlighting is switched on every time a button is pressed or is extended by the fixed period.

4.4 Receiver control

Access via level 1 "Main menu" and "Settings"

Receiver control This menu option allows configuring the optional settings for the system control via the receiver. By selecting a mode, you can determine if and how the system is started by the receiver.

4. GENERAL SETTINGS

MODE 1 "AUTO OFF" (DEFAULT SETTING)

- This mode is recommended for receivers that do never switch off the LNB voltage, or if you wish that the receiver shall not control the antenna.
- The system can then be switched on and off only with the Sat button on the control panel.

MODE 2 "AUTO STANDBY"

- This mode is recommended if the LNB voltage is switched off when the receiver is in standby mode.
- The system can then be switched on and off at the satellite receiver and with the SAT button on the control panel.
- The receiver is switched on: Depending on the model, a receiver may need up to one minute to boot. The antenna will open only after this boot period to search the satellite.
- The receiver is switched off: The antenna retracts and switches into standby mode.

MODE 3 "AUTO SLEEP"

- This mode is recommended if the LNB voltage is switched off when the receiver is in standby mode.
- The system can then be switched on and off at the satellite receiver and with the SAT button on the control panel.
- The receiver is switched on. If the antenna was retracted, it will open and search the satellite selected. If the antenna was already open, it will remain in its position. If no signal is received in this position, the system will search for the satellite selected.
- The receiver is switched off: The system switches into standby mode but the antenna remains in its current position (Sleep mode).
- In "Auto Sleep" mode the antenna can only be retracted by pressing the Sat button on the control panel.

5. AUTOMATIC SATELLITE SWAP

5.1 Automatic satellite swap via DiSEqC™*

In most cases you will aim your automatic satellite system at one specific satellite only. Of course, your system can also receive many other satellites, allowing you to watch e.g. Dutch, Swiss, French, Spanish or other channels. You can select a satellite manually at any time via the control menu.

However, your system can also readjust to a different satellite automatically when you change to the corresponding channel. This may be necessary in countries where the channels are broadcast via different satellites. Using the automatic satellite swap requires some settings to be made at your TV set or receiver, and possibly also at your satellite reception system. If these settings are not defined at all or are incorrect, the automatic satellite swap will not work or a wrong and hence useless satellite will be received. The automatic satellite swap can be performed using the DiSEqC™ feature (disabled at the factory).

The "Automatic satellite swap" of your Oyster / Cytrac / Caro VISION satellite system has been **disabled** at the factory to avoid problems and malfunctions! If you wish to use this function, you can enable it at any time via the menu system. However, it is then mandatory to adjust the settings of your TV set or receiver and possibly of the satellite reception system as well!

5.2 Settings at the Vision control unit

To be able to use the automatic satellite swap by means of the DiSEqC™ capability of your TV set or receiver, you first need to enable the DiSEqC™ function in the menu of your antenna system. See page 9 "Operating the system".

5.3 Enabling DiSEqC™ at the TV set

The settings required at the TV set or receiver are usually provided in a menu item called "DiSEqC™" or similar. For details please refer to the user manual of your TV set or receiver or contact the dealer.

The DiSEqC™ settings should provide options 1.0, 1.1 and 1.2. We recommend selecting DiSEqC™ 1.2. You then need to assign a unique ID to each satellite as is already preset at the Vision III control box. The IDs in the TV settings and those in the Vision III control box must be identical (see table on the following page).

If your TV set does not permit these settings, please contact your dealer.

5. AUTOMATIC SATELLITE SWAP

Sat ID	Rotary switch	Satellite name		DiSEqC™ ID
1	1	Astra 1	19.2° East	1
2	2	Astra 2	28.2° East	5
3	3	Astra 3	23.5° East	3
4	4	Hotbird	13.0° East	2
5	5	Eutelsat W5	5.0° West	4
6	6	Thor / Intelsat 10	0.8° West	7
7	7	Astra 4	4.8° East	6
8	8	Eutelsat 16	16.0° East	15
9	9	Eutelsat 7	7.0° East	9
10	A	Hispasat	30.0° West	14, 21
11	B	Eutelsat 9	9.0° East	18
12	C	Hellas Sat 2	39.0° East	10
13	D	Türksat	42.0° East	11
14	E	Intelsat 907	27.5° West	19
15		Eutelsat 8W	8.0° West	8
16		Eutelsat 10	10.0° East	12
17		Amos 2/3	4.0° West	13
18		Telstar 12	15.0° West	16
19		Astra 5	31.5° East	20
20		Hylas 1	33.6° West	22

* DiSEqC™ is a registered trademark of Eutelsat, 70, rue Balard, F-75502 Paris Cedex 15. www.eutelsat.com

6. SERVICE

6.1 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.

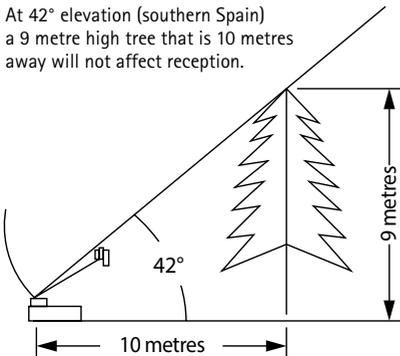
3. SKEW ANGLE (POLARISATION DEVIATION)

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.

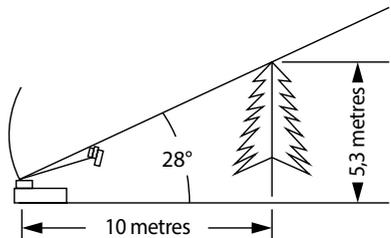
Oyster® systems are available with the optional SKEW function for automatic LNB adjustment.

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.



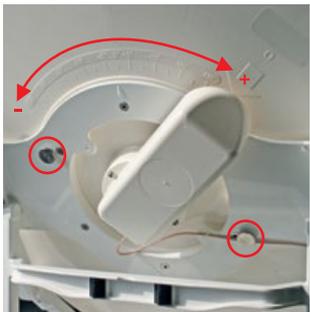
6. SERVICE

6.2 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 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®



6. 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.

6. SERVICE

LNB settings in different regions:

Country	Eutelsat 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.

6. SERVICE

6.3 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. SERVICE

6.4 System Updates via USB stick

The system must be connected and supplied with voltage. (It may be necessary to activate the system by pressing the SAT button and then stopping the process after 3 seconds by pressing the OK button).

Connecting the USB stick	Description
	Connect the USB stick to the adapter and plug it into the control panel
	The adapter's USB plug is longer than a standard plug, making it easier to connect it to permanently installed control panels. Be sure not to push it in any further than shown in the picture!
 <p>Abbrechen Starten</p>	The USB stick is read out, and the prompt Update? is shown in the display.
	Press OK ✓ to start a system check and the subsequent programming procedure. The case of a fault (e.g. system not compatible with update) a corresponding message is shown.

If the USB stick is already plugged in when the control panel is switched on, a different check is started, and the message no UF-file may appear.

The message will disappear after approx. 5 seconds, and the procedure will continue as normal.

6. SERVICE

Programming	Description
	First the programme memory (flash) is updated.
	Then the configuration memory (NVM).
	After indicating the end of the procedure, system and control panel perform a reset to complete the update.

Caution: Do not remove the USB stick or disconnect the system from voltage during the programming procedure!!!

FURTHER INFORMATION

- The latest data for the USB stick are available for download at „<http://ten-haaft.com/rmc/updates/>“.
- The downloaded Zip file must be unpacked onto the stick. All files should be saved to the main directory on the stick.
- The Zip file or USB stick may contain files for several system types. The update feature of the control panel automatically identifies the correct data set.
- The USB sticks contain a specific variant of the EVI file. This ensures that the individual user settings are retained in the system.
- The USB stick can be removed any time as long as programming is not in progress.

7. APPENDIX

7.1 AUX relay – optional switched terminal for TV set

The Vision III control unit provides a switched terminal to switch the TV set's power supply on and off.

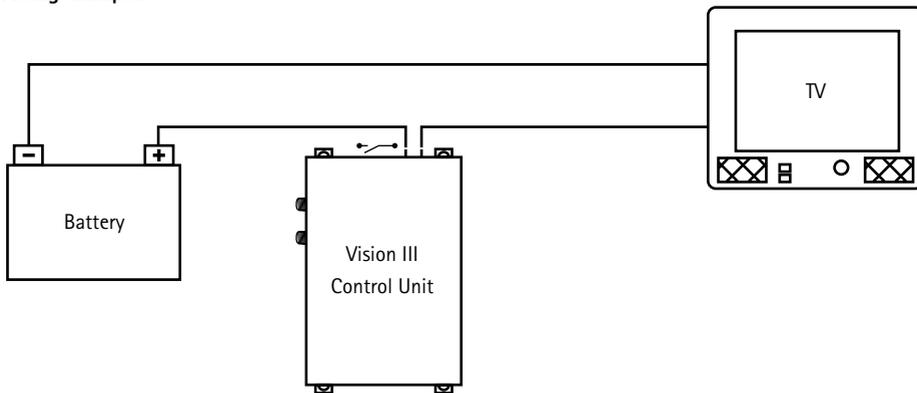
This switched terminal is always closed when the Vision system is in operation. It opens when the system is switched off (Standby or Sleep mode).

Accordingly, the TV set is always disconnected from the on-board electric system when the Vision system is not in operation, thereby saving standby power.

Caution:

- The switched terminal is not a power supply! The TV set must be supplied with power via a separate cable. Never branch off the power for the TV set from the Vision system's power supply (be sure to observe the installation instructions)!
- Some TV sets are fitted with an integrated satellite receiver. If such a receiver provides voltage to control the LNB (see receiver control mode 2 or mode 3), this device should not be connected to the switched terminal.

Wiring example:



7. APPENDIX

7.2 Declaration of conformity



Konformitätserklärung
Declaration of Conformity
Déclaration de Conformité

Wir, der Hersteller

Nous, le fabricant souscrit
ten Haaf GmbH
Oberer Strietweg 8
D.75245 Neulingen
Germany / Allemagne

erklären hiermit, dass die Produkte:

déclarons par la présente que les produits:

Oyster 65 Premium Oyster 85 Premium

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

SKEW / Single / Twin

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 UNECE 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 UNECE Regulation No. 10 Rev.4 (+Addendum 1)

sont conformes aux spécifications suivantes et portent la marque CE selon les lignes directrices de la Compatibilité Electromagnétique (EMC) Numéro 2004/108/EC ainsi que la directive de l'automobile UNECE 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

Nous, le fabricant souscrit
ten Haaf GmbH
Oberer Strietweg 8
D.75245 Neulingen
Germany / Allemagne

erklären hiermit, dass die Produkte:

déclarons par la présente que les produits:

**Cytrac^{EX} VISION / Cytrac^{EX} HDTV / Cytrac^{EX} Ci+ / Cytrac^{EX} Premium
CARO + VISION / CARO + HDTV / CARO + Ci+ / CARO + Premium**

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

Single / Twin

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 UNECE 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 UNECE Regulation No. 10 Rev.4 (+Addendum 1)

sont conformes aux spécifications suivantes et portent la marque CE selon les lignes directrices de la Compatibilité Electromagnétique (EMC) Numéro 2004/108/EC ainsi que la directive de l'automobile UNECE régulation Numéro 10 Rev. 4 (+Annexe 1).

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Neulingen, den 17. Oktober 2014

Roman Bittigkoffer
Geschäftsführer

7. APPENDIX

7.3 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



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