



USER MANUAL

Travel Vision TVA 65/80 (Premium) ®

Version 2.3 August 2017 (Eutelsat 9 for Hispasat)
All from 2016





Introduction

Congratulations on the purchase of your Travel Vision TVA 65/80 (Premium).

This user manual provides all necessary information on the installation, operation and maintenance of your system.

The Travel Vision TVA 65/80 (Premium) is designed to receive TV signals from a satellite on a vehicle such as a camper, caravan, minibus, trucks and buses at park position. With just a push of a button, the Travel Vision TVA 65/80 (Premium) automatically finds the satellite of your choosing.

The system requires a clear view of the satellite to maximize the signal reception. Objects such as tall trees, bridges and buildings that block this view will cause a loss of signal and the automatic aiming will not function. Heavy rain, cloud, snow or ice may also interfere with the signal reception quality.

WARNINGS AND REMARKS

The contents of this manual are up to date at the time of print. In no way, can TravelVision BV be held liable for any errors that may occurred while writing this manual.

TravelVision BV reserves the right to implement any modifications it deems necessary during the development of the products, and to modify or change this installation and user manual and the herein described products without prior notice.

Travel Vision TVA 65/80 (Premium) ® is a registered trade mark of TravelVision BV.

Please first read this user manual before putting your Travel Vision TVA 65/80 (Premium) ® into operation. Follow all instructions and carefully observe the directions presented in this manual.

For additional information, we kindly ask you to contact the specialist dealer where you purchased your system. User manuals and software updates can be found on our website: www.travel-vision.com

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1. Safety instructions and warnings

Carefully read this user manual before using the device.

Scope of use

Your Travel Vision TVA 65/80 premium ® has been developed to automatically search and find a satellite signal on a parked vehicle. This device is only intended for use by consumers and outdoors.

For safe use, please observe the following:

Travelvision TVA 65/80 (PREMIUM)

The system is not suitable for operating while the vehicle is in motion. Operating during drive may cause damage to the vehicle as well as it will be dangerous for life safety. This product is with retracted antenna for fixed installation on vehicles with a maximum speed of 130 Km/h.

Antenna dish outdoor unit

The antenna dish outdoor unit which is installed on top of the vehicle, causes a height on the vehicle. Make sure that this height will not cause any risk while cruising you're your vehicle. It is very important that to be aware of this height for safety while crossing a bridge, crossover or wooded road. Retract the system during periods of strong wind or storm.

Installing Antenna dish outdoor unit

It is important that the closing direction of the antenna should be towards back of the vehicle. In this position, the wind effect is at the minimum level during the driving of the vehicle when the antenna is closed.

During alignment

Make sure not come into physical contact with the dish unit while it is aligning and rotating. Only use the control module and make sure nothing and nobody enters the turning circle of the system during its alignment.

Connecting the system

Always first fully connect the system before switching on the power supply. Otherwise you risk receiving a slight electric shock.

In order to ensure that your Vision system works properly, you must ensure that it is correctly connected to the ignition of your vehicle

When it is correctly installed, the antenna automatically returns to the park position when the ignition is switched on and locks itself there. If the system cannot fully retract or cannot retract at all due to a fault, then it is your responsibility as the driver of the vehicle to check that the antenna is safely and properly stowed. **The driver of the vehicle must inspect the external unit before driving off to ensure that it is fully retracted.**

Snow and Ice

If the antenna is covered by snow or ice, do not operate the system. That kind of usage may cause permanent damages to the system.

Maintenance

There are no parts in the device that require servicing by the user. Do not open the cover of the unit. To open the covers cancels the guarantee of the unit. Refer to authorized technical service. Do not clean your vehicle with the mounted satellite system in a drive-through car wash or with a high-pressure cleaner.

1.1 Tips before going on vacation

Check whether your subscription or smart cart is still valid.

Check the correct function of the system.

Check the website www.travel-vision.com or ask your dealer for any software updates.

2. Packaging Travel Vision TVA 65/80 (PREMIUM) ®

The Travel Vision TVA 65/80 (PREMIUM) ® is packed in a wooden box, the system is fixed by means of 4 screws.

Before opening the box, check the box may not be deformed and may not have serious and obvious signs of damage such as cracks or dents resulting from impact.

Attention! Lift the antenna on the base/mounting plate and not on Dish itself.

2.1 Shipment check list Travel Vision TVA 65/80 (PREMIUM) ®

- Antenna dish outdoor unit
 - complete antenna unit with LNB and mounting plate
 - 4 m coaxial- and motor control cable with junction box
- Controlbox
- Controlepanel with 1.5 mtr cable
- Support bracket
- 2 mtr powercable
- 5 mtr Motor control cable
- 5 mtr coaxial cable (2 pc. with Twin LNB TVA 80 (Premium))
- Usermanual

2.2 Antenna outdoor unit Travel Vision TVA 65/80 (PREMIUM) ®



2.3 Parts Travel Vision TVA 65/80 (PREMIUM) ®



5 m Coaxialcable



5 m Controle cable



1,5 m Coaxialcable



Controlpanel



Controlebox



Mounting controlbox



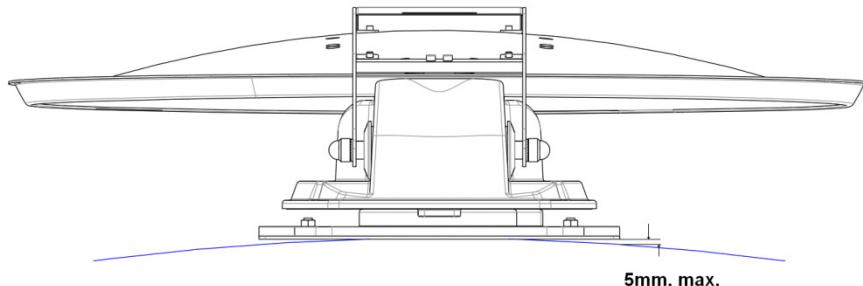
Support Bracket



Junctionbox

3. Determine installation position

By determine the antenna installation position you should check:



- Before installing the system, make sure that the surface is flat, dry and clean, on which the antenna will be mounted.
- The equipment must only be installed on hard vehicle roofs which are sufficiently strong and inherently stable.
- Make sure that there are no physical obstacles on the vehicle that prevent watching the satellites and motion of the dish, when choosing the installation place of the antenna.
- Make sure that the installation base is a rigid surface and it never stretches.
- It is important that the closing direction of the antenna should be towards back of the vehicle. In this position, the wind effect is at the minimum level during the driving of the vehicle when the antenna is closed.

Determine the cable wiring towards controlbox.

Depending on the desire there are two different possibilities for wiring:

- Wiring duct from the side
- Cabling Transit through middle bottom



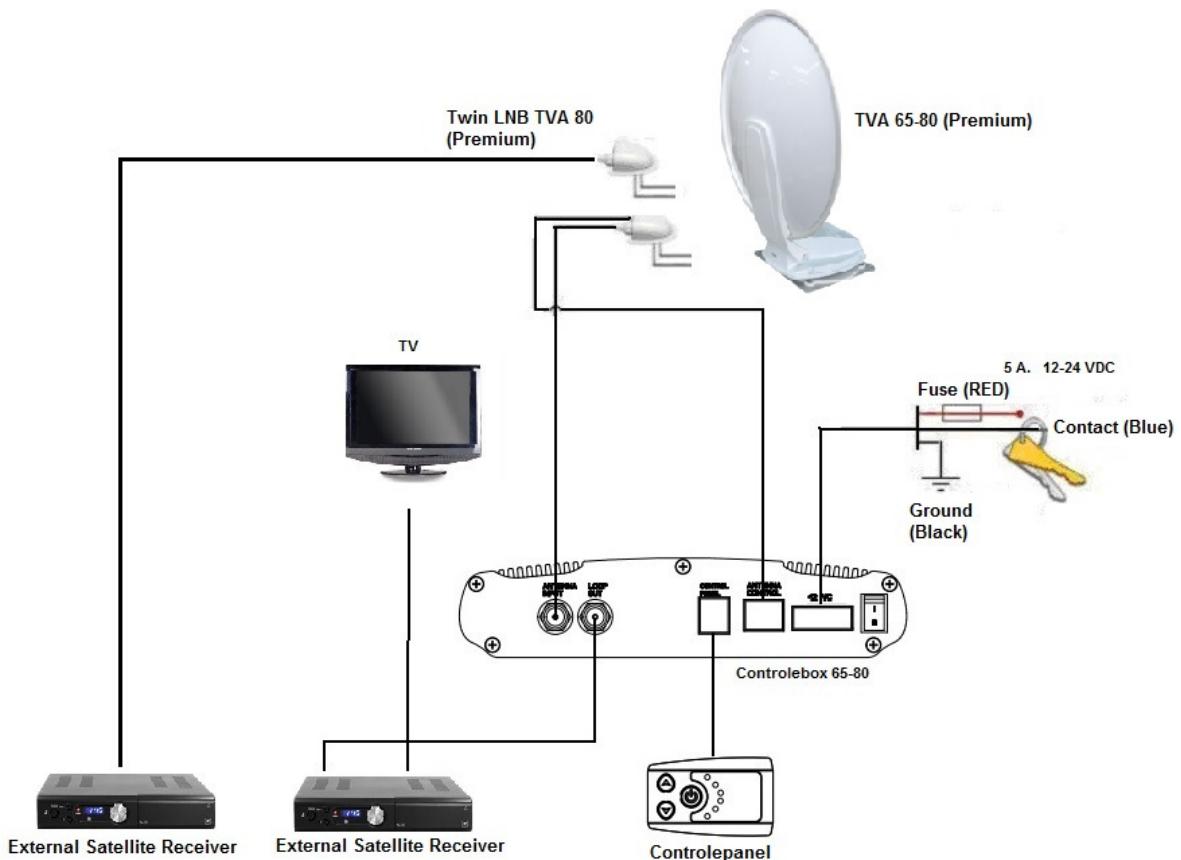
Wiring duct from the side



Cabling Transit through middle bottom

3.1 Determine the cable wiring through interior

Determine the cable wiring through interior and position of the control box, advised the control box close to the TV and receiver.

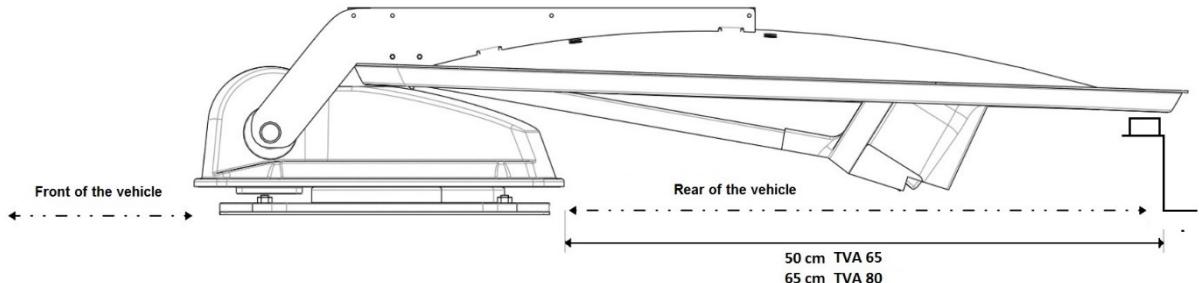


Electric diagram Travel Vision TVA 65/80 (PREMIUM) ®

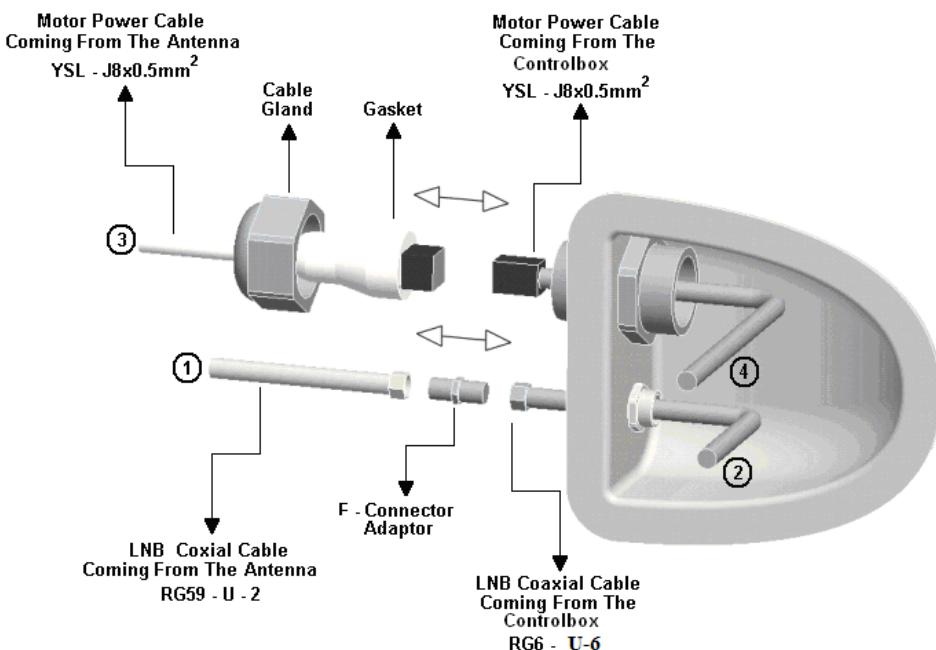
3.2 Installing

1. Before installing the system, make sure that the place is dry and clean, on which the antenna will be mounted.

It is important that the closing direction of the antenna should be towards back of the vehicle. In this position, the wind effect is at the minimum level during the driving of the vehicle when the antenna is closed.



2. Depending on the requirements; two different motor unit installation method can be used.
 - a. **Fixing with bold:** align the dish holes with rivets on the mounting bracket and place the dish onto the mounting bracket. Screw forepart of the dish to mounting bracket with M6x10 screws. Use silicon to isolate the tighten screws.
 - b. **Fixing with bonding:** Lead up the mounting surface and motor unit base plate according the adhesive. Fix the motor unit by bonding it to the mounting surface.
3. Stick the support bracket 50 of 65 cm (depends dish size) from the rear-middle axis of the antenna. Check this position before confirming the support.
4. Enter the necessary cables through the roof and mount (if desired with mounting cables from the side) the roof junction box.
 - a. Mounting hole diameter 18 mm 12-pin connector
 - b. Mounting hole diameter 13 mm F-Connector



5. Run the cables from roof through the interior to the control box
6. Connect the motor control cable to motor control (4) control box
7. Connect the 5-m coaxial cable to antenna Input (1) control box
 - a. Optional with Twin LNB, connect 2^e coaxial cable on 2^e receiver
8. Connect the 1,5-m coaxial cable from Loop Out (2) control box to receiver
9. Connect your TV to receiver as instructed by your receiver/TV manual.
10. Connect Control Panel on (3) control box
11. Connect power cable on (5) control box
12. Connect contact (blue) from power cable on contact of vehicle.
13. Connect power cable to 12 or 24 V DC vehicle. (use for any extension to the power supply 2.5 mm to 4.00 mm cable).

The system is now ready for use. If all cables and connectors are connected, you can turn on the power.



Controlbox Back

4. Function control panel and control box

Control box:

Steering
Monitoring
Updating

The built-in electronics provides as system operator.
Display of the system status
updating software.

6. On/Off (Power supply on/off)
7. Power light Red
8. Con light green
9. USB port



Controlbox front

Controlepanel:

Control
Monitoring

Giving instructions to the control box e.g. Satellite choice, turn on / off, etc.
Selected satellite



10. Up
11. Down
12. Stand-by

Switch on: system search satellite
Switch off: system returns to parking position and switch off (standby-mode)
13. Display satellite choice

Control panel

5. LNB and Skew

5.1 Single or Twin LNB

The centrepiece of the satellite antenna is the LNB, which bundles and processes the satellite signals. Per your individual needs, it's available in different variants. For example, if you want to use a second receiver, e.g. in the sleeper compartment, you need a Twin LNB to connect a second independent receiver.

The TVA 65 with single LNB, suitable for connection of 1 receiver

The TVA 80 (Premium) with a twin LNB, which allows connection of two receivers that can operate independently.

5.2 Skew

For optimal reception at the limits of the reception ranges in South East and West regions, the LNB may have to be rotated in order to compensate the polarisation deviation (SKEW angle) caused by the earth's curvature.

5.3 Auto Skew

The TVA 80 (Premium) antenna has Autoskew, the system automatically rotates the LNB to be assured of optimum signal.

5.4 Manual skew set for model TVA 65

With the TVA 65 the skew should be manual set.

The LNB is provided in a white plastic cover, which can be opened to adjust the skew.

With factory set, the LNB is set to +5. Before searching the satellite, you need to check or the LNB-skew must be adapted.



Checking Skew

The table below is only a tool, if the current LNB skew setting has more difference as 10 degrees, there is a big possibility that the system will not align with the satellite, or services from the receiver will be lost (picture will freeze frame and may disappear).

Check your position in table below.

| | Astra 1 19'2E | Astra 3 23,5E | Astra 2 28E | Hotbird 13E | Eutelsat 9 E | Thor 1 W |
|-------------------------------|---------------|---------------|-------------|-------------|--------------|----------|
| Scandinavia | 0 | 0 | 0 | -3,5 | -3 | -7 |
| Netherlands, Belgium, Germany | +3,5 | +7 | +10,5 | 0 | -3 | -7 |
| UK / Ireland | +7 | +10,5 | +14 | +7 | +12 | +7 |
| France | +7 | +10,5 | +14 | +3,5 | +7 | -7 |
| Portugal / Spain | +17,5 | +17,5 | +21 | +14 | +15 | +7 |
| Austria / Croatia / Italy | 0 | +3,5 | +7 | -3,5 | -5 | -14 |
| Tunisia | +3,5 | +7 | +17,5 | 0 | 0 | -14 |
| Morocco | +24,5 | * | +31,5 | +21 | +24 | +7 |
| Canary Islands | +28 | +35 | +38,5 | +31,5 | +36 | +24,5 |
| Greece / Romania | -14 | -10,5 | +3,5 | +7 | +16,5 | -24,5 |

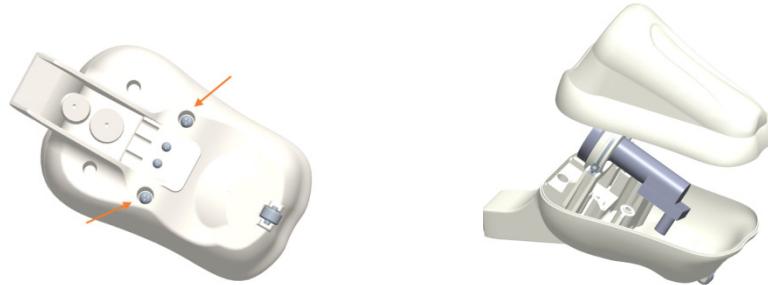
Note: This table contains only an average for the skew adjustment

Manual setting skew

The LNB is provided in a white plastic cover, which can be opened to unscrew the two screws on the bottom of this cover. When the cover is opened, the LNB with a degree distribution becomes visible.

Positive degree Skew LNB is clockwise rotation (Viewing from the LNB into the mirror) negative degree in counter clockwise direction.

1. Unscrew the two screws at the bottom of the LNB cover and remove the cover.



2. Slightly loosen the two small screws from mounting LNB degree, just to turn the LNB to the correct position



3. Tighten the two small screws from LNB degree and attach the cover with two screws on the bottom

6. Use, search for satellite.

Power on:

Switch the control box (button 6.) to On (first time operating).

The red LED (7) of the control box lights up and after a few seconds the blue illumination of the control panel lights up as well. The red LED (7) on the control box goes out and the system goes into standby mode. The system is now initiated and ready for use.

Search for satellite:

- Please ensure that the system always has a clear view. In Europe, all satellites are in an approximate position in the south.

Depending on your system there are 3 possibilities:

1. Standard LNB with TVA 65
2. Autoskew LNB with TVA 80
3. Autoskew LNB with TVA 80 Premium

Standard LNB with TVA 65

Check in section 5.4 the correct LNB setting for the desired satellite. If necessary, set the LNB of your antenna. Press the standby button (12.) of the control panel. The blue back light on the control panel lights up and the antenna moves up.

The antenna searches for the last selected satellite, also displayed on the control panel by a slow blinking LED (13). The elevation (height) also starts at the position that the satellite was previously located.

Once the TVA 65 has located the satellite, it will optimally align with small steps after checking. To indicate that the satellite has been located the chosen satellite LED (13) flashes quickly.

This process takes about 1 minute. After this optimisation phase, the system is in-line with the satellite.

To indicate that the satellite has been located and aligned, the chosen satellite LED (13) lights continuously.

The signal is now fully passed on to the connected satellite receiver and you can watch TV.

Autoskew LNB with TVA 80

Press the standby button (12.) of the control panel. The blue back light on the control panel lights up and the antenna moves up. The antenna searches for the last selected satellite, also displayed on the control panel by a slow blinking LED (13). The elevation (height) also starts at the position that the satellite was previously located. Once the TVA 80 has located the satellite, it will optimally align with small increments after checking. To indicate that the satellite has been located the chosen satellite LED (13) flashes quickly.

During the optimisation of the satellite, the system checks the optimum position of the LNB by means of autoskew.

This process takes about 1.5 minutes. After this optimisation phase, the system is in-line with the satellite. To indicate that the satellite has been located and aligned the chosen satellite LED (13) lights continuously.

The signal is now fully passed on to the connected satellite receiver and you can watch TV.

Autoskew LNB with TVA 80 Premium

Press the standby button (12.) of the control panel. The blue back light on the control panel lights up and the antenna moves up. The antenna searches for the last selected satellite, also displayed on the control panel by a slow blinking LED (13).

By means of the built-in GPS, compass and clinometer the elevation height, location of the satellite and the Skew settings will be determined and selected.

NB. If the controller on the power button was turned off and has just been turned on, it takes longer before the GPS location and the position of the satellite will be determined.

Once the Travel Vision TVA 80 PREMIUM has located the desired satellite, it will optimally align with small increments after checking. To indicate that the satellite has been located, the chosen satellite LED (13) flashes quickly. This procedure takes about 30 seconds. After this optimisation phase, the system is in-line with the satellite. To indicate that the satellite has been located and aligned the chosen satellite LED (13) lights continuously. The signal is now fully passed on to the connected satellite receiver and you can watch TV.

7. Select satellite:

At the initial commissioning the system is pre-selected for the Astra 3 satellite. From this point, the system will display the last selected satellite on the control panel during start-up.
If the system is not in operation press the stand-by button (12.) on the control panel to start the search process.

There are 2 ways to select the satellite.

1. Manually using the control panel
2. Automatically by means of the connected receiver (All systems from March 2016).

7.1 Manually selecting of satellite:

With the help of the arrow buttons (10 and 11) on the control panel you are able to select the pre-programmed satellites step by step.
During the search process, you are able to press the buttons and select another satellite.
The system adapts this choice and will search for the desired satellite and align it.

List of preprogrammed satellites from which to choose:

| Satellite | Position | Display |
|-----------------|----------|-----------|
| Astra 1 | 19.2 | Astra19 |
| Astra 3 | 23.5 | Astra23 |
| Astra 2 | 28.2 | Astra28 |
| Hotbird | 13 E | Hotbird |
| Eutelsat | 9 E | Eutelsat9 |
| Thor | 1 W | Thor |

7.2 Automatic switching between the satellites with DiSEqC

Depending on the selected channel of your receiver (or TV with built-in receiver) the system searches the desired satellite.

The TVA system is programmed to automatically align with DiSEqC. If you have a programmed DiSEqC channel list into your receiver, the satellite dish turns automatically to the right satellite belonging to the TV channel you have selected. For a TV channel that is broadcast through Astra 2 the antenna aligns to Astra 2, and for a channel of Astra 1 it aligns to Astra 1 etc. If this function is not desirable and just want to switch manually with the control panel of the satellite dish, turn off the DiSEqC settings in the menu of the connected receiver (or TV with built-in receiver).

NB. To use DiSEqC, the receiver must be connected to the loop-out of the control box.

7.3 Specific comments while searching for the satellite

If the system stops running because it has found a satellite with the right features, but during the checking it appears that this is not the satellite you selected, the system automatically continues searching for the right satellite.

8. Parking position

Press the standby button (12.) of the control panel.

The blue back light on the control panel lights and the antenna shuts itself down.

To indicate the antenna is retracting, no LED on the control panel (13.) is lit.

After retracting the antenna, the control unit turns itself off to standby mode. You can turn off your receiver and TV.

NB. If the ignition switch is connected (strictly recommended) then the antenna automatically retracts as protection after the ignition switch is switched on.

The standby button can be used at any time to turn the system off, even if it is still searching.

9. Update

9.1 Frequency update

The Travel Vision TVA searches for satellites based on various preprogrammed frequencies. These frequencies have been carefully selected by Travel Vision BV, but they are subject to change. When these frequencies change, Travel Vision BV will release new software so that the system can use the new frequencies. This software is freely available for download at the website www.travel-vision.com and at your local dealer

Download the software for your type TVA Travel Vision system from the website.

1. Change the extension (for example mtHWInfo.bin) from downloaded file to **.txt** (mtHWInfo.txt)
 - o Press right mouse-button on downloaded file and select "change name"
 - o Change the extension from .bin or mht to **.txt**
2. Store the file on a USB Flash drive (min 1 Mb)
3. Power off the antenna with control box, button (6).
4. Insert the USB Flash drive in the slot (9) of control box
5. Power On the antenna with control box, button (6).
6. Red LED (7) and green LED (8) flashes 4- 5 times and then continuously.
7. Wait until both LEDs are off.
8. Switch the Power button (6) from control box off and on again.
9. Control Box will reboot with the new update, you can remove the stick.
10. The system is ready for use.

9.2 Firmware update

If there are significant changes for the general operation of the system, the firmware can be updated. Travel Vision BV will release this firmware and its freely available for download at the website www.travel-vision.com and at your local dealer

1. Download the Firmware software for your type Travel Vision TVA 65/80 (PREMIUM) system from the website.
2. Store the file on a USB Flash drive (min 1 Mb) format the USB flash drive to FAT32.
3. Power off the antenna with control box, button (6).
4. Insert the USB Flash drive in the slot (9) of control box
5. Press simultaneously button Up (10) and Down(11) from control panel, and hold.
6. Power On the antenna with control box, button (6). (still up and down pressed)
7. Green LED (8) control box flashes 9-10 times (after first flash you can release the Up and Down button) and then continuously. If the LED not flashes, you may have already installed the same software, check the firmware version. (See 9.3)
8. Switch the Power button (6) from control box off and on again.
9. The Control Box will reboot with the new update, you can remove the stick.
10. Install always after this procedure, always the frequency file (see 9.1) for your system!
11. The system is ready for use.

9.3 check Firmware version

Checking the currently installed firmware is possible by making a log file from the control box and checking on a PC.

Logfile TVA control box:

Power off the antenna with control box, button (6)

Insert an empty USB flash drive in slot (9) of control box

Power On the antenna with control box, button (6)

RED led (7) turns on and green led (8) flashes 4 times and then continuously.

Then both LEDs go out.

Remove the USB Flash drive

On the USB flash drive is stored a logfile: motoSat.log

This text file can be open with a Word processor from your PC

Remark: text below is an example and may vary by type of system.

```
S1|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S2|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S3|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S4|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S5|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S6|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S7|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
S8|f: *****,sr:*****,p:H,el:***,az:***,epos:****,sk:**,
Etc
Etc
etc
```

MTV**5R8**_2016/5/27:16 V1_R3_24.11.2014

The last sentence indicates the firmware version, the RED marked numbers is the version number of the firmware. In this case 5.8.

The * stars are numbers depending type of TVA system.

10. Troubleshooting**10.1 No satellite found,**

- 1) Check whether there are any obstructions on the south which blocks the free satellite view.
- 2) Check the LNB skew setting (See section 5.4) only with TVA 65
- 3) You are possibly outside the broadcast area of the desired satellite. Check footprint in section 11.
If you are sure that the above does not apply:
- 4) Check if the latest Travel Vision TVA ® software version has been installed for any possibly changed satellite frequencies. See www.travel-vision.com or consult your dealer.
- 5) Check the LNB, coaxial cables and connectors from Outdoor antenna and antenna input (1) on controller

10.2 Satellite found, but no picture:

Check the coaxial cable between controller (loop out) and your satellite receiver
Check the connection cables between your satellite receiver and your television.
Switch the receiver and the television off and back on.
Check if the latest software version and channel list has been installed in your receiver

10.3 Satellite found, but not all TV channels:

Check if the latest software version and channel list has been installed in your receiver
Check whether your subscription or smart card is still valid.
Check the LNB skew setting (See section 5.4) with TVA 65

10.4 The system does nothing. Possible causes / solutions:

Is the power button on the control box switched to on?

Red LED (7) on control box?

| | |
|------|----------------------------------|
| No, | Check powersupply |
| | Check fuses |
| | Check powercable on controlbox |
| Yes, | Check vehicle contact |
| | Check cable control panel |
| | Check cables and battery voltage |

10.5 Should the software update files be opened before putting them on a USB stick?

No, You only need to copy (right mouse button to copy) and paste (right click paste) on an empty USB flash drive. Due to installed anti-virus programs on your PC, it could be possible that you cannot copy the files directly from your email program. In this case you can create an intermediate step, first copy the files to your desktop and then copy it to the USB flash drive.

10.6 Should the vehicle with system be level?

With TVA 65-80:

The system has not to be fully level to find the satellite. However, with more level, the satellite is faster found. Also, it works in favour of the indicated LNB skew position.

With TVA 80 Premium:

No, the built-in clinometer calculates the correct angle for elevation and LNB skew

10.7 The system has found the satellite but is aligned to another object.

The system may align to a reflective surface like the side of the camper van/caravan, due to reflection of the satellite signal. The satellite signal is sufficient to receive the satellite but is too weak to allow viewing some (or all) TV channels.

Move the vehicle with antenna and then realign it, or block signal between the dish and the reflective surface while the search process is in progress.

10.8 Explanation of Error Codes in the control panel

From firmware version 7.2 January 2017, also error message codes are displayed with the help of the control panel

A-Fault scenario

1- Fault Elevation (vertical movement)

Controlpanel : Alarm sounds, LED3+4.
 Cause : Mechanical obstacle detected during movement
 Action : Check whether there are any obstacles to the antenna and remove them.
 And press Standby button to try again .

2- Fault Azimuth (horizontal motion) during rotation to the park position

Controlepanel : Alarm sounds, LED 1+2+4.
 Cause : Mechanical obstacle detected during folding,
 Action : Check whether there are any obstacles to the antenna and remove them.
 And press Standby button to try again .

B- Explanation of LED error codes in the control panel



- 1- Elevation encoder failure during opening: LED1
- 2- Elevation encoder failure during retract: LED2
- 3- Antenna not reached within the max. time required Azimuth limits: LED1 + LED2
- 4- During the search, the azimuth of 0 ° detection switch is not found: LED3
- 5- During the search, the switch azimuth of 360 ° detection is not found: LED1 + LED3
- 6- During the search, as elevation of 0 ° detection switch is not found: LED2 + LED3
- 7- During the search, the elevation switch 360 ° detection is not found or the motor cable is faulty: LED1 + LED3 + LED4
- 8- LNB or coaxial cable is not connected or defective: LED4
- 9- TVA 80 Premium antenna, sensor board or GPS sensor is not connected or defective: LED1 + LED4
- 10- Azimuth motor encoder failure: LED2 + LED4
- 11- Azimuth overcurrent protection: LED1 + LED2 + LED4
- 12- Elevation overcurrent protection: LED3 + LED4

Remark: When the ignition switch (blue cable) is activated the antenna retract and gives 3 x alarm sounds from control panel
 When the ignition is activated, and the Standby button is pressed, the antenna remains closed, the control panel sounds 3 x alarm.

10.9 Other technical questions.

If your question is not listed here, you can also send an email to info@travel-vision.com

We will answer your question as soon as possible.

It is important that your question also indicates what type of system and control box is installed:

System:

TVA 65

TVA 80

TVA 80

TVA 80 Premium

Controlebox:

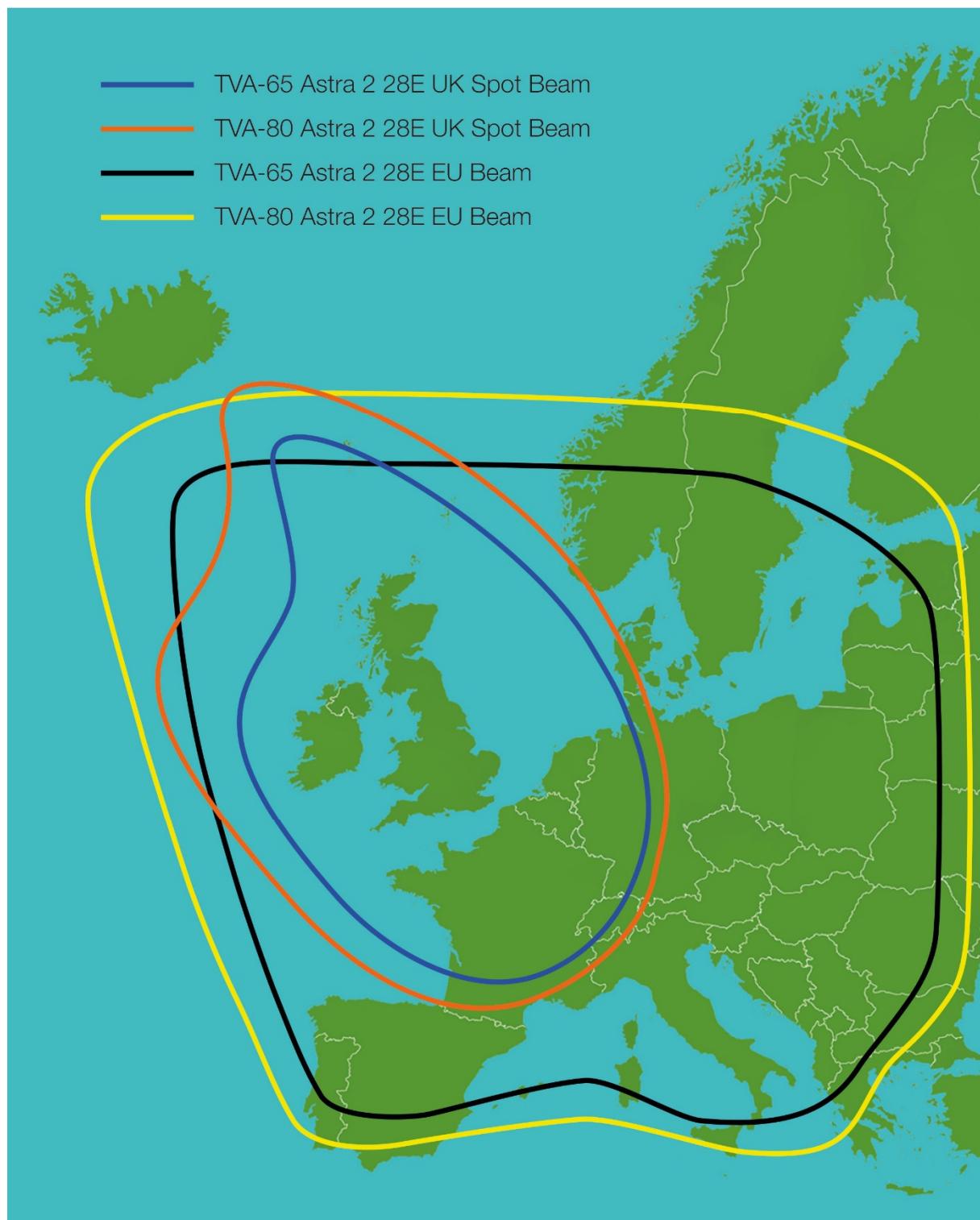
MTC-3710 (front controlbox)

MTC-3811 (front controlbox)

MTC-3812 (front controlbox)

MTC-5812 (front controlbox)

11. Footprint TVA systems:



12. Technical Specifications

| | |
|-----------------------------------|--|
| Antenna Dish and LNB | : TVA 65: 65 cm with universal single LNB (KU) TVA 80: 80 cm (Premium) with universal Twin LNB (KU) |
| Dimensions and weight | : TVA 65: 12,5 kg W 66 x L 87 x H 19 cm TVA 80: 14 kg W 82 x L 104 x H 21 cm |
| Operating voltage | : 12-24V DC |
| Operating Power consumption | : 30W. |
| Software update | : USB |
| Cable | : 2 cables (3 with TVA 80 (Premium) Twin LNB) |
| Azimuth range | : 0° ~ 380° limited |
| Azimuth speed | : 15-18°/sec. |
| Elevation range | : 0° ~ 90° |
| Elevatie snelheid | : 10°/sec. |
| Storage temperature | : -30°C ~ +70°C |
| Operating temperature | : -15°C ~ +50°C |
| Operating relative humidity range | : 0 ~ 98 % |

13. Warranty conditions

1. Warranty is only applicable when the Travel Vision system is set up properly and when it is used in accordance with the procedures as described in this user manual.
2. Through strict quality control and high requirements set in regard to the utilized materials, Travel Vision BV guarantees delivery of a sound and functional Travel Vision system.
3. Within **24 months** after purchase and within 36 months after production, defects due to an error in manufacturing and/or wrong materials which occurred during normal use will be resolved under the hereafter defined warranty conditions.
4. Warranty applies only on presentation of (a copy of) the purchase receipt and after providing the serial number, by the owner of the Travel Vision system.
5. Warranty is not transferable.
6. The holder of the Travel Vision system should at first observation of a defect immediately inform the dealer and should enable the dealer to detect the defect.
7. Where in the judgments of the dealer a defect can be rectified on site, then the dealer is authorized to carry out the rectification on site. In the event that this is impossible the dealer will, without creating any obligation to temporarily install a replacement system, dismantle the Travel Vision system and take it to his premises for repair, or following consultation with the help desk, send the system to Travelvision b.v. so that they can carry out the repair.
8. Travelvision b.v. reserves the right to refer to third parties or to make use of their services in dealing with the warranty or offering advice.
9. The warranty may only be called upon where all the warranty conditions have been met. Liability on the part of Travelvision b.v. is therefore limited to the reimbursement of the costs of repair or the bearing of such costs by Travelvision b.v., or replacement of the Travel Vision in whole or in part, or of the component in which the defect has occurred, all entirely according to the opinion and judgment of Travelvision b.v.
10. Travelvision b.v. reserves the right to judge, entirely in accordance with their own opinion, that a defect is attributable to improper use and/or improper installation of the Travel Vision system, in which event all claims against the warranty shall lapse and will therefore be rejected.
11. Travelvision b.v. shall not be responsible for the suitability of the Travel Vision system for any purpose other than that for which Travelvision b.v. has given undertakings in the Installation and User Manual. Travelvision b.v. will therefore accept no liability whatsoever for any damage resulting from such use.
12. Travelvision b.v. shall not be liable for any defect in the Travel Vision system and/or its functionality where this is the consequence of damaging external factors, or of the improper or incomplete functioning of third party products and/or services, or the unavailability thereof. Travelvision b.v. will therefore accept no liability whatsoever for any damage resulting from such use.

