Setup

Follow the steps below to set up the system for your desired satellite(s). *If you need to change an existing setup, reset the system as explained in Chapter 4 of the User's Guide.*

```
ASTRA1                  ▂▃▄▅▆
SYSTEM NEEDS SETUP
```

1. Press any button to begin the setup process.

```
LAT/LONG= 41N, 071W?
⊡CHANGE        ✓ACCEPT
```

2. Press ⊡ CHANGE.

```
LAT/LONG= 41N, 071W?
⊡CHANGE        ✓ACCEPT
```

3. Enter your vessel's latitude and longitude. Press ⊡ CHANGE to change each digit; press ✓ ACCEPT to set each digit.

   The antenna uses your position information to report the proper LNB skew setting (see System Startup) and accelerate satellite acquisition.

4. Once you have set each digit of latitude and longitude, press ✓ ACCEPT.

```
SAT 1= ASTRA1?
⊡CHANGE        ✓ACCEPT
```

5. Press ⊡ CHANGE until display shows the primary satellite you want to install and track.

6. When the display shows the desired satellite, press ✓ ACCEPT.

```
SAT 2= NONE?
⊡CHANGE        ✓ACCEPT
```

7. Repeat steps 5 and 6 to install any additional satellites (4 max). Select NONE if you don't need to install additional satellites.

The antenna restarts automatically once setup is complete.

System Startup

Whenever you turn on the system, or the antenna restarts, the display shows the following startup screens.

```
KVH INTERFACE BOX
VERSION X.YZ
```

Interface box and antenna software versions.

```
INSTALLED SATELLITES
ASTRA1, HOTBIRD
```

Satellite(s) selected for tracking (see Setup).

```
LAT/LONG: 41N, 071W
```

Vessel position (see Setup and Menu Functions).

```
AVERAGE SKEW:-12.3
CHECK LNB SETTING
```

Recommended LNB skew setting (see Skew Adjustment). *If only **1** satellite is installed, display shows skew for that satellite. If **2+** satellites are installed, display shows average skew.*

```
INITIALIZING ANTENNA
SEARCHING ASTRA1
```

Antenna performs a self test then searches for the selected satellite.

Startup Warnings

If either warning appears on startup, you may need to change your satellite selections (see Setup).

Warning	Description
Wide skew range	Average skew may not suffice for good reception; installed satellites are too far apart
Satellite out of antenna range	Based on your position, one of the satellites you selected is outside the antenna's range

Skew Adjustment

To optimize reception, the antenna's LNB (low noise block) must be set to the correct skew angle, within 5°, for the satellite(s) you selected.

Finding the Correct Skew Angle

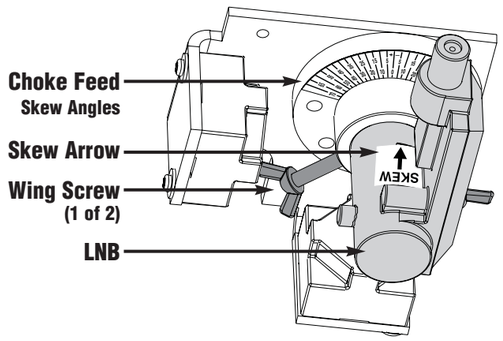
To find the correct skew, you can either:

- Read the reported skew angle on the interface box during startup (see System Startup)
- Run the diagnostics test and scroll to the skew screens (see Chapter 5 of the User's Guide)

Also check the reported lat/long. If the interface box reports a lat/long that is more than **600 km** away from your current position, you should re-enter your position into the interface box to obtain a more accurate skew angle (see Menu Functions).

Setting the LNB Skew Angle

1. Turn off and unplug your satellite TV receiver(s).
2. Turn off the TracVision system. *Press the ⏻ Power switch on the interface box; the VOLTAGE light should go out.*
3. Remove the three #10-32 screws securing the radome to the antenna. Carefully remove the radome and set it aside in a safe place.
4. Loosen the two wing screws securing the LNB to the choke feed behind the reflector.
5. Adjust the LNB, clockwise or counter-clockwise, until the skew arrow on the LNB points to the correct skew angle on the choke feed. ***Make sure the LNB stays fully inserted into the choke feed.***
6. Tighten the wing screws.
7. Reinstall the radome.



TRACVISION®

KVH TracVision M3

DX Version - Linear

Quick Start Guide

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54_0386 RevA

KVH®

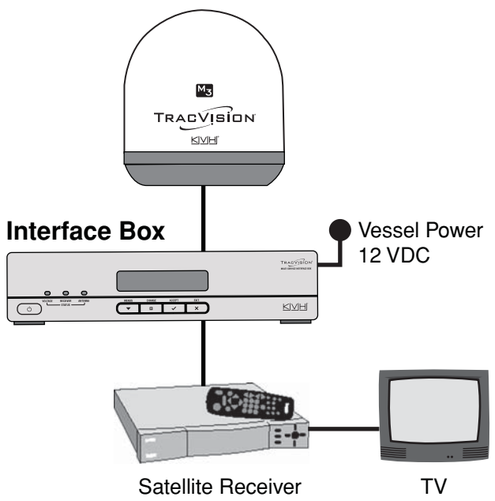
Welcome!

Congratulations! You have purchased the TracVision M3, the smallest and most advanced satellite TV antenna system available today. Refer to this handy quick reference guide for basic operation and setup instructions.

TracVision Serial Numbers

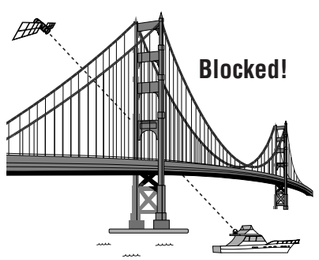
Antenna Serial Number	Interface Box Serial Number

TracVision M3 System Diagram



Receiving Satellite TV Signals

The antenna needs a clear view of the sky to receive satellite TV signals. Common causes of blockage include trees, buildings, and bridges. Heavy rain can also affect reception.



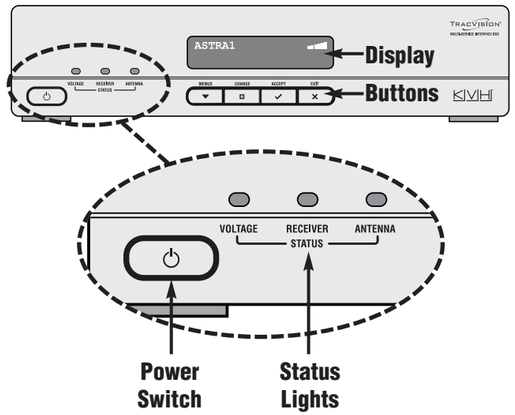
Basic Operation

Turning On the System

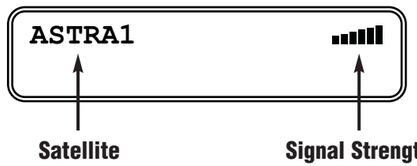
1. Make sure the antenna has a clear view of the sky.
2. Turn on your satellite TV receiver and TV.
3. Press the ⏻Power switch on the front of the TracVision interface box.
4. Wait 1 minute for system startup.

Once the antenna finds the satellite, all 3 status lights should be lit green. *You can now start watching TV!* If any lights are NOT lit green, refer to Chapter 5 of the User's Guide for troubleshooting information.

Interface Box



Understanding the Status Screen



Satellite
Indicates the currently selected satellite

Signal Strength
Indicates antenna is tracking the selected satellite
More bars = stronger signal

Automatic Satellite Switching

If set up to track multiple satellites, the antenna automatically switches between them as you change channels using the receiver's remote control.

Menu Functions

You can configure and troubleshoot the system from the interface box. The table below lists the functions that are available. To access the menu, simply press ▼MENUS.

Function	Settings	Description
Brightness	HIGH MEDIUM LOW	Set the brightness of the interface box display
Lat/Long	Position data	Enter your vessel's lat/long to enhance performance and recalculate skew angle (see Skew Adjustment)
Diagnostics	NO YES	Enter Diagnostics menu: • System Reset • Run Test • Show Sys Info • Sat Switch • Cal Gyro • Tracking Params See the User's Guide for details.

Changing a Setting

1. Press ▼MENUS until the display shows the function you want to change.

```
BRIGHTNESS= HIGH
▼NEXT MENU    ⊡CHANGE
```

2. Press ⊡ CHANGE until the display shows the desired setting.

```
BRIGHTNESS= MEDIUM?
⊡CHANGE       ✓ACCEPT
```

3. Press ✓ ACCEPT to accept the new setting.

```
BRIGHTNESS= MEDIUM
```

Exiting the Menu

Press × EXIT to exit the menu. The display returns to the status screen.

Troubleshooting

First check the five simple things below. If none of these are the problem, check the status lights on the interface box and/or perform a diagnostics test, as explained in Chapter 5 of the User's Guide.

Five Simple Checks

1. **Can the antenna see the satellite?** The antenna requires an unobstructed view of the sky to receive satellite TV signals.
2. **Is there excessive dirt or moisture on the antenna dome?** Dirt buildup or moisture on the dome can reduce satellite reception.
3. **Is there stormy weather?** Heavy rain or snow can weaken satellite TV signals.
4. **Are the interface box, receiver, and TV all turned on?** Make sure the power switch on the front of the interface box is turned on (VOLTAGE light is lit green).
5. **Are all cables connected?** Check all cables at the receiver, TV, interface box, and antenna to ensure none have come loose.

Status Lights

VOLTAGE	Description
Off	Power off
Green	Good power (10-16 VDC)
Flashing green	Antenna cable disconnected
Orange	Low power
Flashing red	Bad power

RECEIVER	Description
Green	Good receiver comms
Orange	Receiver off or disconnected
Flashing orange	Overload or short circuit
Red	Error

ANTENNA	Description
Off	Antenna off or disconnected
Green	Tracking satellite
Flashing green	Searching for satellite
Flashing orange	Overload or short circuit
Red	Error