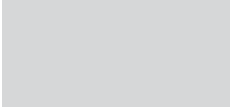


Welcome!

Congratulations! You have purchased the most reliable mobile satellite TV antenna system. Use this guide for basic setup, operation, and troubleshooting. For installation information, refer to the Installation Guide.

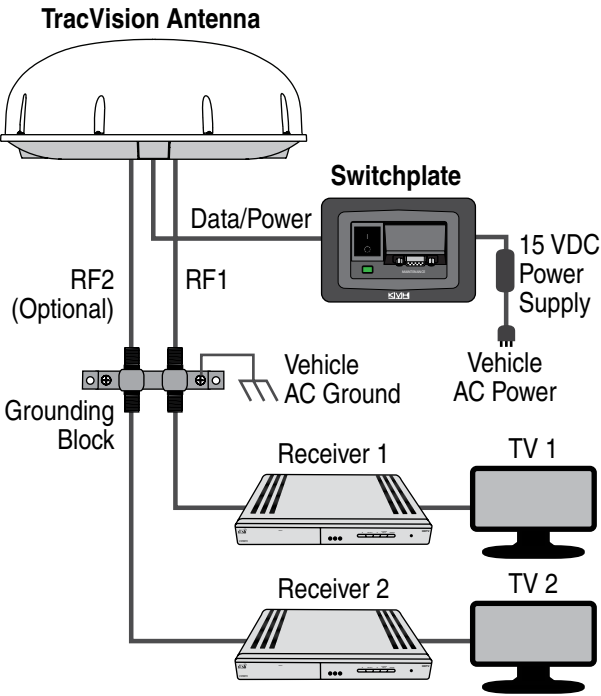
Product Serial Number

TracVision Serial Number



- ☐ R5SL, In-motion
- ☐ R4SL, Stationary (use only when parked)

TracVision System Diagram



Technical Support

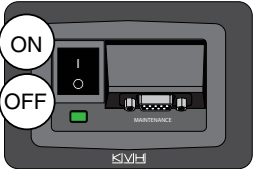
If you are experiencing any operational problems, call or visit your local authorized TracVision dealer or distributor. You can find a technician near you by visiting www.kvh.com/wheretogetservice.

If you need help finding an authorized technician, please contact KVH Technical Support:
E-mail: techs@kvh.com; Phone: +1 401 847-3327

Operation

Turning On the System

1. Park your vehicle in an area with a clear view of the southern sky, away from any trees or tall buildings.
2. Turn on your receiver and TV.
3. Set the switchplate's Power switch to ON (I).
4. Wait 2 minutes for system startup.



Turning Off the System

Set the switchplate's Power switch to OFF (O).

Compatible Receivers

The following receivers have been validated by KVH to work well with your TracVision system.*

Service	HD	Non-HD
DIRECTV	Not supported	D12, D11, D10
DISH Network	211, 211k	311
Bell TV	6100, 6131	3100, 4100

*Newer models might also be compatible; contact KVH.

Switching Satellites

The antenna automatically switches satellites as you change channels using the primary receiver's remote (the receiver connected to the RF1 cable).

Since the antenna tracks one satellite at a time, switching satellites with the primary receiver might cause TVs connected to other receivers to display different programming, no programming, or an error message. Simply select a channel carried by the new satellite, or switch back to the original satellite. Also, the receiver might briefly display an error message when you change channels.

Special Instructions for DISH 1000/129

If you don't have the optional KVH Master Receiver Selector installed, DISH 1000/129 mode is limited to stationary use only. Also, before you turn on the antenna, you must first select satellite 119 and transponder 17 at the receiver's "Point Dish/Signal Strength" screen (press MENU, 6, 1, 1).

Troubleshooting

Can the antenna see the satellite?

The antenna requires an unobstructed view of the southern sky to receive satellite TV signals. Common causes of blockage include trees, buildings, bridges, and mountains.

Excessive dirt or moisture on dome?

Dirt buildup or moisture on the dome can reduce satellite reception. Clean the exterior of the dome periodically with fresh water and mild detergent. Avoid harsh cleansers and volatile solvents (such as acetone), and do not spray the dome with high-pressure water.

Did you paint the dome?

Any paint that contains metal will block satellite signals and impair reception. If you wish to paint the dome, use only non-metallic automotive paint without a primer coat.

Is it raining heavily?

Heavy rain or snow can weaken satellite TV signals. Reception should improve once the inclement weather subsides.

Is everything turned on and connected?

Make sure the antenna is turned on at the switchplate. Also, make sure your TV and receiver are turned on and set up for the satellite input. Finally, check the cables connecting all of these components to ensure none have come loose.

Have you reset the receiver?

Receivers can sometimes lock up, preventing the programming from being displayed on the TV. Turn off and unplug your receiver. Wait 1 minute, then plug it back in and turn it on.

Is the receiver set up for the antenna mode?

All DISH Network or Bell TV (ExpressVu) receivers that you connect to the TracVision system must be set up for the antenna's operating mode. To configure a receiver, you need to run its Check Switch test. Refer to the next section for details.

Setup

DIRECTV

The TracVision system ships from the factory set up for DIRECTV. However, if you need to change to DIRECTV from another service, follow these steps:

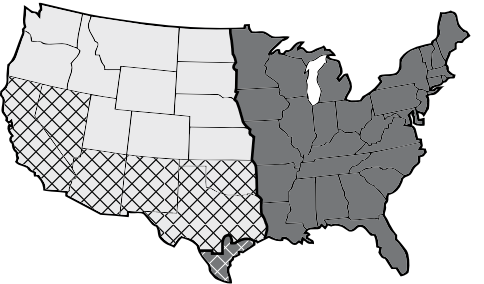
1. Turn off the antenna and connect the DIRECTV receiver to the antenna's RF1 cable.
2. Remove any service keys connected to the switchplate (see the reverse side of this guide).
3. Turn on the receiver then press its Reset button (usually located behind the card access door).
4. Using the receiver's remote, go to the "Signal Meter" screen and select satellite 101.
5. Turn on the antenna. The antenna should find the DIRECTV satellites within 15 minutes.

Satellites Tracked: 101 and 119.

DISH Network

If you add a new or home-configured receiver, or you need to change to DISH Network from another service, follow the steps on the reverse side of this guide for your desired mode and region.

Mode	Satellites Tracked
DISH 1000/129	110, 119, and 129
DISH 1000/61	110, 119, and 61
DISH 500	110 and 119



- ☐ = DISH 129 satellite recommended
- ☒ = DISH 61 satellite recommended
- ☒ = Southwest procedure required

Bell TV (formerly ExpressVu)

If you add a new or home-configured receiver, or you need to change to Bell TV from another service, follow the steps on the reverse side of this guide.

Satellites Tracked: 91 and 82.

Setup

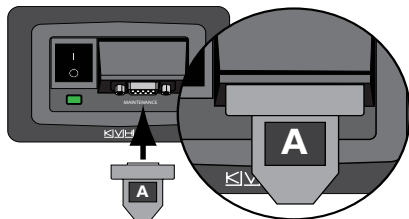
DISH Network/Bell TV Only

Step 1 - Connect the Service Key(s)

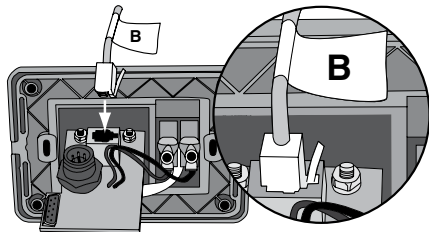
If your chosen mode requires a service key(s), connect it to the switchplate before going to Step 2.

Mode	Key A	Key B
DISH 1000/129	-	-
DISH 1000/61	Connect	-
DISH 500	Connect	Connect
Bell TV (ExpressVu)	-	Connect

Service Key "A" (Front of Switchplate)



Service Key "B" (Back of Switchplate)



Step 2 - Run Check Switch Tests

Follow the steps as directed for your chosen mode. ("D" = DISH; "S" = Southwest procedure)

1. Park your vehicle in a blockage-free area.
2. Turn off the TracVision antenna.
3. Ensure the receiver you need to configure is connected to the antenna's RF1 cable.
4. Turn on the TV and the receiver.
5. Turn on the TracVision antenna and wait 2 minutes for system startup.
6. Using the receiver's remote, go to the "Point Dish/Signal Strength" screen (press MENU, 6, 1, 1 on most models).

D500S, D1000/61S, D1000/129, D1000/129S

7. Go to Table A.

Bell, D500, D1000/61

7. Go to Table B.

Setup

DISH Network/Bell TV Only

Table A

1. Select Check Switch.
2. Select Test (DISH) or Check (Bell TV).
3. Wait for the test to complete.
4. If a warning message appears, select Cancel.
5. Select Done.
6. Select satellite 119 and transponder 17.
7. Wait for the signal meter to go green and lock on the 119 satellite.
8. Wait 5 minutes and ensure the signal meter stays locked on the 119 satellite.
9. Go to Table D.

Table B

1. Select Check Switch.
2. Select Test (DISH) or Check (Bell TV).
3. Wait a full 15 minutes and ignore any messages displayed on the TV.

Bell, D500S, D1000/61S, D1000/129S

4. Go to Table C.

D500, D1000/61, D1000/129

4. Go to Table D.

Table C

1. Select Test (DISH) or Retest (Bell TV).
2. Wait for the test to complete. It will take several minutes.
3. Verify the values shown in the "Installation Summary" match those shown in Table F.

Check Switch OK 4. Press View Live TV and wait for the program guide to load. The process is complete!

Check Switch not OK **D500S, D1000/61S, D1000/129S**

4. Repeat Table C.

Bell, D500, D1000/61, D1000/129

4. Turn off the antenna then wait 10 seconds.

5. Turn on the antenna then wait 2 minutes.

Bell, D500, D1000/61

6. Go to Table B.

D1000/129

6. Go to Table A.

Setup

DISH Network/Bell TV Only

Table D

1. If the receiver was preconfigured by KVH*, go to Table E. (*KVH part #s 02-1712-61 and -0129)

D500, D1000/61

2. Go to Table C.

D1000/129

2. Select Check Switch.

3. Go to Table C.

D500S, D1000/61S, D1000/129S

2. Turn off the antenna then wait 10 seconds.

3. Turn on the antenna then wait 2 minutes.

4. Go to Table B.

Table E - Preconfigured Receiver Only

1. Select each satellite in your chosen mode from the "Point Dish/Signal Strength" screen.

All satellites lock OK 2. Press View Live TV and wait for the guide to load. The process is complete!
Green signal meter

All satellites do not lock OK 2. Turn off the antenna then wait 10 seconds.

3. Turn on the antenna then wait 2 minutes.

D500, D1000/61

4. Go to Table B.

D500S, D1000/61S, D1000/129, D1000/129S

4. Go to Table A.

Table F - Expected Check Switch Results

D1000/129 D1000/129S	Satellites	119, 110, and 129
	Switch type	SW64
D1000/61 D1000/61S	Satellites	119, 110, and 61.5
	Switch type	SW64
D500 D500S	Satellites	119 and 110
	Switch type	SW42
Bell	Satellites	91, 82
	Switch type	SW21

Configuring Additional Receivers

Set up each additional receiver (if not preconfigured by KVH) by connecting it to the antenna's RF1 cable and running a single Check Switch test.

TRACVISION®

TracVision R5SL/R4SL



User's Guide

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