

KVH TracVision® Antenna Commands

Quick Reference Guide, European Version



Basic Commands (Press the Enter key after typing a command.)

Command	Function
Main PCB Commands	
HALT	Stops the antenna.
DEBUGON	Places Main PCB in Debug mode.
VERSION	Reports Main PCB software version and antenna model.
=SERNUM	Reports antenna serial number.
=SERNUM,XXXXXXXX	Enters antenna serial number. (XXXXXXXX = serial number)
SATINSTALL,<sat_A>,<sat_B>	Installs satellite pair. (e.g., SATINSTALL,DSS_101,DSS_119)
SATINSTALL	Reports installed satellite pair.
SAT	Reports satellite being tracked.
GPS,XX,<N or S>,<E or W>	Enters current GPS position. (XX = Latitude, YYY = Longitude)
GOTO,AZXXXX,ELYYY	Sets saved satellite position. (XXXX = Azimuth, YYY = Elevation) <i>Last digit is decimal (e.g., 60.7° azimuth = AZ0607)</i>
TRACK	Starts tracking and sets saved satellite position.
CLEAREE	Clears Main PCB EEPROM to factory default.
=CALGYRO	Calibrates the gyro.
=LSTEST	Performs limit switch test.
INSTANTON or INSTANTOFF	Turns Instant On mode ON or OFF.
SLEEPON or SLEEPOFF	Turns Sleep mode ON or OFF.
SMACK	Restarts antenna with ASTRA1 and HOTBIRD installed.
ZAP	Restarts antenna.
RF PCB Commands	
@DEBUGON	Places RF PCB in Debug mode.
@VER	Reports RF PCB software version.
@L,<sat>	Switches to track other satellite, disables DiSEqC monitoring. (<sat> = A or B)
@L,IRD	Enables DiSEqC monitoring; allows satellite switching via the receiver.
@CLEAREE	Clears RF PCB EEPROM to factory default.
@ZAP	Resets the RF PCB.
@SC,XXXXX,YY	Runs a frequency scan. (XXXXX = symbol rate, YY = FEC code) Caution: Updating an improper frequency will affect system operation.
@SATCONFIG	Reports tracking frequencies and other parameters for satellites A and B. <i>Refer to the Manual for details on entering tracking parameters.</i>
@SAVE,<sat>	Saves frequency data for satellite A or B. (<sat> = A or B)
@I	Reports lock, AGC, BER, and ADC (signal level) of received signal.
@S	Reports selected satellite, polarization, and band.
@SNR	Reports SNR and BER.
@FREQ	Reports tracking frequency for the selected polarization/band.
@CHECKID	Reports the Network ID of the selected transponder.

Install Satellites – *Satellite Pair*

Enter Command	Notes				
1. HALT	Enter after limit switch test is complete.				
2. SATINSTALL, <sat_A>,<sat_B>	<table border="1"> <thead> <tr> <th><sat_A></th> <th><sat_B></th> </tr> </thead> <tbody> <tr> <td>Astra1</td> <td>Hotbird</td> </tr> </tbody> </table> <p>See Manual for other satellites.</p>	<sat_A>	<sat_B>	Astra1	Hotbird
<sat_A>	<sat_B>				
Astra1	Hotbird				
3. ZAP	Restarts antenna.				

Install Satellites – *TriSat Group*

(TracVision 4/G4/6/G6 systems only)

Enter Command	Notes																
1. HALT	Enter after limit switch test is complete.																
2. SATINSTALL, TRISAT,XXX	<table border="1"> <thead> <tr> <th>XXX =</th> <th><sat_A></th> <th><sat_B></th> <th><sat_C></th> </tr> </thead> <tbody> <tr> <td>EUR</td> <td>Hotbird</td> <td>Astra1</td> <td>Astra2S</td> </tr> <tr> <td>SCN</td> <td>HotbirdWB</td> <td>Sirius</td> <td>Thor</td> </tr> <tr> <td>EWB</td> <td>HotbirdWB</td> <td>Astra1</td> <td>Astra2S</td> </tr> </tbody> </table>	XXX =	<sat_A>	<sat_B>	<sat_C>	EUR	Hotbird	Astra1	Astra2S	SCN	HotbirdWB	Sirius	Thor	EWB	HotbirdWB	Astra1	Astra2S
XXX =	<sat_A>	<sat_B>	<sat_C>														
EUR	Hotbird	Astra1	Astra2S														
SCN	HotbirdWB	Sirius	Thor														
EWB	HotbirdWB	Astra1	Astra2S														
3. GPS,XX,<N or S>, YYY,<E or W>	Enter current GPS position. XX = Latitude, YYY = Longitude																
4. AVGSKEW	Manually adjust the LNB in the antenna to the calculated skew angle.																
5. ZAP	Restarts antenna.																
Note: DiSEqC settings 1, 2, and 3 on the receiver must match the order of installed satellites A, B, and C in the antenna. See the receiver manual for details.																	

NOTE:

All commands listed in this guide are valid for the latest hardware and software versions as of June 1, 2005. Commands are subject to change without notice.

Calibrate Gyro

Enter Command	Notes
1. HALT	Enter after limit switch test is complete.
2. DEBUGON	Puts Main PCB in Debug mode.
3. =LSTEST	Wait for limit switch test to pass or fail.
4. =CALGYRO	Check azimuth and elevation scale factors.
5. ZAP	Restarts antenna.

Reconfigure System

(Upon changing Main or RF PCB Hardware or Software)

Enter Command	Notes																		
1. HALT	Enter after limit switch test is complete. Write down the serial number, which appears at the top of the sequence. Also note if “High Performance System” or “High Performance Motor” appears on the next line of the sequence.																		
2. DEBUGON																			
3. @DEBUGON																			
4. CLEAREE																			
5. @CLEAREE	Wait for checksum.																		
6. ZAP	Restarts antenna.																		
7. HALT	Enter after limit switch test is complete.																		
8. DEBUGON																			
9. =<model>	<table border="1"> <thead> <tr> <th><model></th> <th>TracVision Model(s)</th> </tr> </thead> <tbody> <tr> <td>TVG4HPT</td> <td>4/G4, HP system</td> </tr> <tr> <td>TVG4HP</td> <td>4/G4, HP motor</td> </tr> <tr> <td>TVG4</td> <td>4/G4</td> </tr> <tr> <td>TVG6HPT</td> <td>6/G6, HP system</td> </tr> <tr> <td>TVG6HP</td> <td>6/G6, HP motor</td> </tr> <tr> <td>TVG6</td> <td>6/G6</td> </tr> <tr> <td>TVG8</td> <td>G8</td> </tr> <tr> <td>TVC3</td> <td>C3</td> </tr> </tbody> </table> <p>“HP” = High Performance Restarts antenna.</p>	<model>	TracVision Model(s)	TVG4HPT	4/G4, HP system	TVG4HP	4/G4, HP motor	TVG4	4/G4	TVG6HPT	6/G6, HP system	TVG6HP	6/G6, HP motor	TVG6	6/G6	TVG8	G8	TVC3	C3
<model>	TracVision Model(s)																		
TVG4HPT	4/G4, HP system																		
TVG4HP	4/G4, HP motor																		
TVG4	4/G4																		
TVG6HPT	6/G6, HP system																		
TVG6HP	6/G6, HP motor																		
TVG6	6/G6																		
TVG8	G8																		
TVC3	C3																		
10. HALT	Enter after limit switch test is complete.																		
11. DEBUGON																			
12. =LSTEST	Wait for limit switch test to pass or fail.																		
13. =CALGYRO	Check azimuth and elevation scale factors.																		
14. SATINSTALL, <sat_A>,<sat_B>	Reinstall satellites. See above.																		
15. =SERNUM, XXXXXXXX	XXXXXXXX = Antenna serial number																		
16. GPS,XX,<N or S>, YYY,<E or W>	Enter current GPS position. XX = Latitude, YYY = Longitude																		
17. ZAP	Restarts antenna.																		