## Appendix - RC350 Handheld Satellite Antenna Pointing Assistant

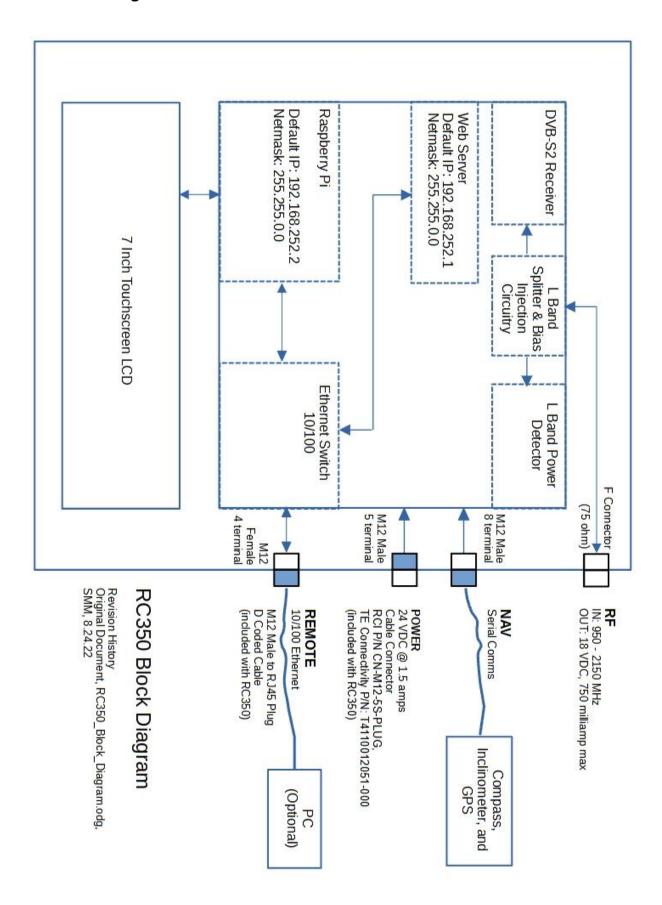
This appendix provides documentation for the RC350 Satellite Pointing Assistant. The RC350 is a handheld version of the RC300 Pointing Assistant with a built-in 7 inch touch panel LCD. The RC350 uses an external Compass/Inclinometer/GPS unit that interfaces to the RC350 via an M12 connector.

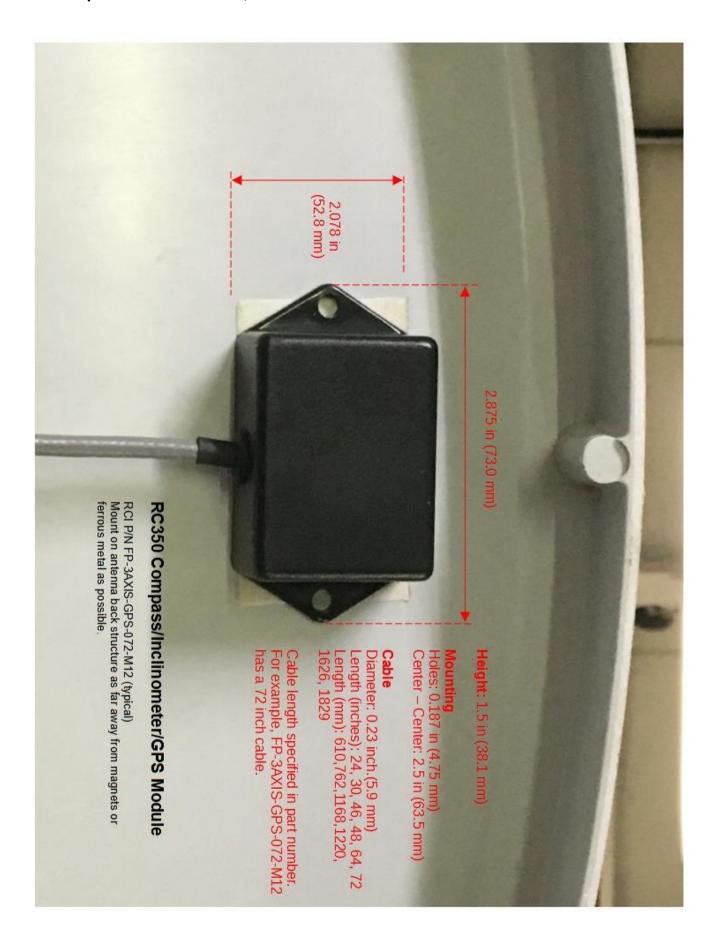
Refer to the RC300 Operator's Manual for setup and operating procedures.





**RC350 Satellite Pointing Assistant** 





## Differences between the RC300 and RC350

	RC300	RC350	
Packaging	Mounted to antenna, supplied as a board set to OEM's.	Handheld Unit, IP 65 Dimensions: 6 x 8 x 3.125 inches 153 x 204 x 85 mm Weight: 2.2 pounds, 1 kg	
User Interface	External Browser	Built In 7" LCD Touch panel or External Browser	
Compass and Inclinometer	In RC300 Enclosure	Compass/Inclinometer/GPS in External Enclosure.	
GPS	Module on board, external antenna.	RCI p/n FP-3AXIS-GPS-072-M12_2 (included with RC350)	
IP Address Reset	Reset by shorting connector terminals.	Reset via SSH (contact factory for details)	
Ethernet Interface	RJ45 Receptacle	M12 Female Connector for use with D coded M12 male to RJ45 plug cord set (included with RC350)	
Power Input	24 VDC, connector type varies	M12 male connector, A coded. 24 VDC @ 1.5 amps maximum (a mating M12 female connector is included with RC350).	

## **RC350 Connector Schedule**

Description	RC350 Connector	Male Pinout	Female Pinout	Signals	
REMOTE	Female M12, 4 Conductor Ethernet Interface For use with D Coded M12 to RJ45 (plug) Cord set (included with RC350). The cordset is RCI P/N CBL-M12D-4-ETH-5M, Lumberg Automation P/N 0985 YM57530 103/5M. Cable length 5 meters.	2 0 1 0 0 4	10002	M12  1  2  3  4	RJ 45 Plug  1  3  2  6
POWER	Male M12, 5 Conductor A Coding  Mating connector included, RCI P/N CN-M12-5S-PLUG, TE Connectivity P/N: T4110012051-000  Power Requirements: +24 VDC, 1.5 amps max	2 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 5 0 5 0 3	Terminal 1,4 2,3 5	Signal Ground +24 VDC Shield
NAV	Female M12, 8 Conductor A Coding Interface for Compass/Inclinometer and GPS serial communications. The Compass/Inclinometer/GPS module is RCI P/N FP-3AXIS-GPS-xxx-M12 where 'xxx' denotes the cable length in inches. Available options are 024, 030, 046, 048, 064, and 072	3 0 0 0 7 0 0 6 5 5 6 7	7 0 0 0 3 0 0 0 4	Terminal  1  2  3  4,5  6  7	Signal +5 VDC Compass RS232 TX Compass RS232 RX Ground GPS TTL RX GPS TTL TX +3.3 VDC
RF	Female F Connector			Input: 950 – 2150 MHz, -65 to -25 dBm Output: +18 VDC, 750 milliamp max	

## **Revision History**

09.06.22 – SMM – RC350\_Appendix\_090622.docx Source Files: RC350\_Block\_Diagram.odg – Block Diagram, Libre Office Draw vers 7.1.8.1 (x64) FP-3AXIS-GPS-072-M12\_2.odg – Compass/GPS photo with dims, Libre Office Draw