



### **AIS Test Set Overview**

Very simply, the AIS is a broadcast system, operating in the VHF maritime mobile band. It is capable of sending ship information such as identification, position, course, speed and more, to other ships and to shore.

It can handle multiple reports at rapid update rates and uses Self-Organizing Time Division Multiple Access (SOTDMA) technology to meet these high broadcast rates and ensure reliable and robust ship-to ship operation.

The AITS-RV is a frequency agile 156 Mhz to 162.025 Mhz test set operating on the designated AIS1, AIS2 and DSC channels.

It has been designed in accordance with the listed relevant specifications as an aid to evaluating the operation of an AIS unit.

The AITS-RV AIS tester is designed for checking of class A and class B - AIS mobile, Aids To Navigation and AIS fixed stations.

It is suitable for evaluation, checking, testing, developing and manufacture of AIS hardware as well as according to the circular letter MSC.1 / Circ.1252.

### **Operational Evaluation Of The Following AIS Equipment Under Test (EUT)**

AIS Class A  
AIS Class B (B/CS)  
AIS Base Station  
AIS Repeater Station  
AIS Aids To Navigation  
AIS Search and Rescue  
AIS Receiver  
DSC interrogation (DSC telecommand)  
12.5W RF EUT Port  
0 dBm RF Calibration Port  
Serial / Pilot / Presentation Port /  
NMEA, VDO, VDM (RS422 / RS232)

The objective for the use of the AITS-RV is to create a general VDL environment using a PC with AITS-RV hardware. Where the VDL parameters (power and frequency) and VDO and VDM packet data are easily analysed, interrogated and virtual targets created. A html or csv test result file can be saved.



Maritec Solutions (Pty) Ltd  
Bay Ridge, Unit 60  
53 Dolphin Crescent  
Balito  
4420  
South Africa  
+27 83 283 4198  
info@maritec.co.za  
<https://www.maritec.co.za/contact-us>