# AVX-10K Enhanced COMMs and Headset Adapter

In most situations, a requirement for testing radio communications is to execute a two-way call with local tower operations and request a COMMS clarity check. This test proves the aircraft's COMMS can transmit, and clarity is adequate. The issue with this test is that the tower may not always be manned, the technician performing the test may not know the frequency to transmit on, or the check could interfere with airport operations. This test also only proves that the output power is sufficient to reach the specific radio tower, and there could be issues with longer-range transmissions.

Test COMMs headsets

The headset adapter connects to the AVX-10K

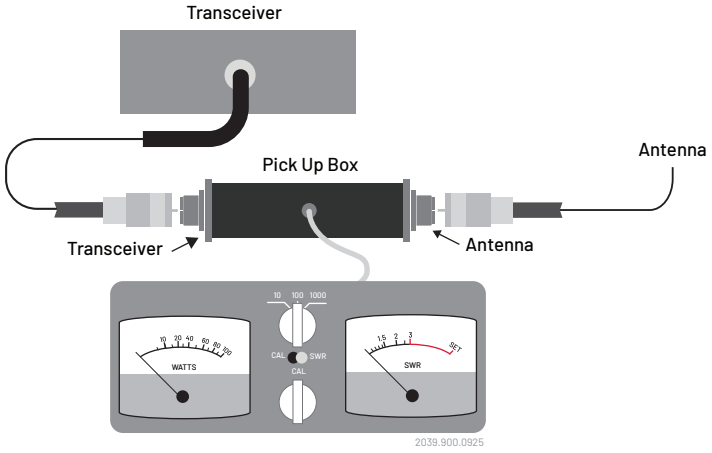

Fixed-wing and rotary/military headsets are supported

The new Enhanced COMMS software option, paired with the headset adapter, will allow users to exercise their operational checks with greater efficiency than traditional tests. The headset adapter is compatible with both dual and single plugs for high and low impedance headsets commonly used on aircraft.

Technicians can do two-way radio communication between the aircraft and the AVX-10K. The way that this differs from a handheld radio is that the power level can be measured to ensure the aircraft is capable of receiving and transmitting at sufficient power levels to be received at long distances.

Creating a COMM power level check procedure can be accomplished by using the steps below as a reference.

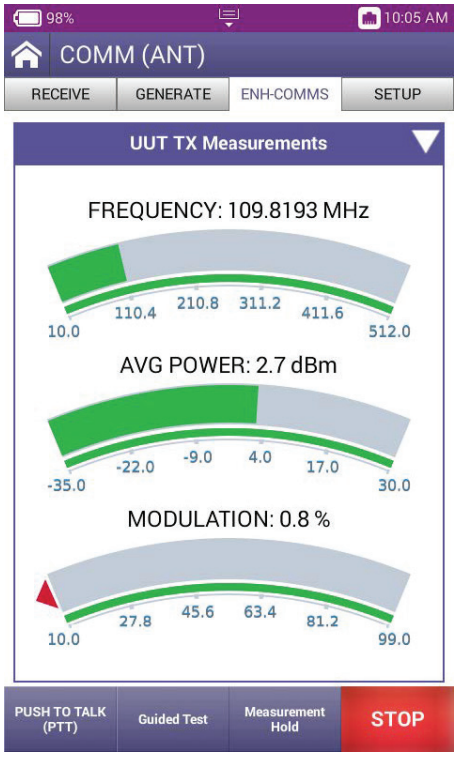
1. Connect a watt meter in line between the aircraft coax and the antenna.




2. Ensure that while transmitting, the expected values are shown based on the specifications of the unit under test.

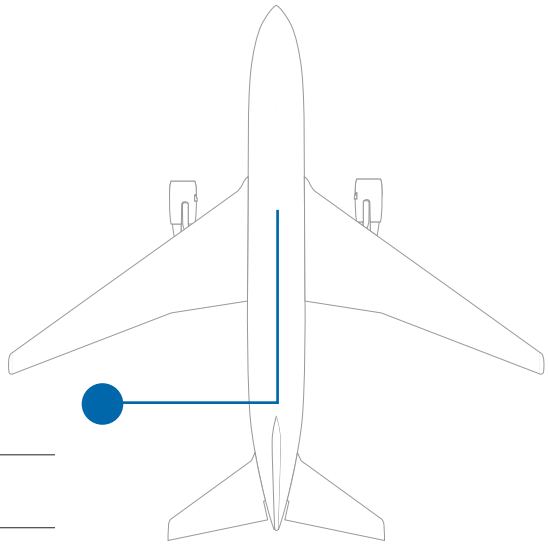
3. Reconnect the COMM system to the antenna.

4. Tune your aircraft and the AVX-10K Enhanced COMMS option to the same frequency.



5. Position the AVX-10K near the UUT antenna with a direct line of sight, and the telescoping antenna fully extended. Then find a location that receives an average power level of 0 to +10 dBm while the aircraft is transmitting.

6. Record the exact distance, height, and angle between the UUT and AVX-10K in the spaces below and save for future use.



Distance: _____

Height: _____

Angle: _____

7. This position should show similar received power repeatedly and can be used to test aircraft of the same make and model.

8. For the most accurate results, the position should be found using the average position between multiple aircraft of the same make and model, as well as using multiple frequency ranges.

Contact Us: +1 800 835 2352 | avcomm.sales@viavisolutions.com.



avx10k-enhancedcomms-an-avi-nse-ae
30194636 900 1025