VIAVI

AVX-10K

Flight Line Test Set

Getting Started Guide

General Information

Intended Audience

This guide provides customers the basics of how to setup and use the AVX-10K. Refer to the Operator Manual for additional details.

Related Information

VIAVI maintains a webpage where additional product information is available to customers:

https://www.viavisolutions.com/avx-10k

Use this manual in conjunction with the following information:

- **Operations Manual**: provides guidance for approved operation procedures.

- **Maintenance Manual**: provides guidance for approved maintenance and troubleshooting procedures.

- **Product Brochure**: provides ordering information for parts and accessories.

- **Configuration Selection Guide**: provides information on configuration details.

- **Data Sheet**: provides technical specifications.

- **StrataSync™ User Guide**: provides operational information on the StrataSync™ Application

Declaration Of Conformity

VIAVI recommends keeping a copy of the Declaration of Conformity that shipped with the unit with the device at all times.

Warranty Information

Warranty information for this product is available on the VIAVI website at:

- https://www.viavisolutions.com/en-us/warranty-information
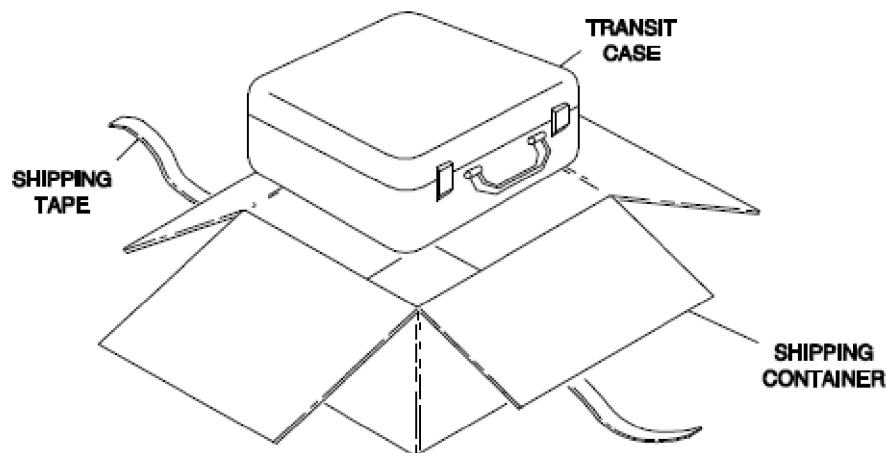
1.   Upon Receipt

Perform the following when the device is received from the factory:

1.   Unpack delivered equipment from shipping container.

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- New units purchased with a transit case are shipped inside the transit case.
- Returned units returned to the customer from VIAVI will be shipped in accordance with VIAVI shipping standards; and will be shipped inside the unit's transit case, as applicable.
- Store dunnage, packing material, and shipping container for possible future use.

2.   Verify shipment is complete in accordance with packing list and/or from the below applicable configuration ordered. Report any discrepancies to VIAVI.

3.   Follow the 'First Time Use' procedure below.

4.   Check all accessory equipment for damage incurred during shipment. If any equipment has been damaged, report the damage to VIAVI.

Configuration Details

Catalog Number	Item Description	Preconfigured Kits			
		AVX-10K-FLTS (Test Set Only)	AVX-10K-NAV (NAV/COMM)	AVX-10K-SVLC (Surveillance)	AVX-10K-CNS (COMM/NAV/SVLC)
AVX-10K	AVX-10K Unit	■	■	■	■
AC10K-PWRADPTR	AC/DC Power Adapter	■	■	■	■
AC10K-HANDSTRAP	Hand Strap	■	■	■	■
AC10K-OPSMNL	Manual, Operations	■	■	■	■
AC10K-QSGUIDE	Manual, Quick Start	■	■	■	■
AC10K-TRANSITCASE	Carrying Case, Hard Transit		■	■	■
AC10K-ADPTRKIT	Calibration Kit, VSWR/DTF	■	■	■	■
AC10K-ANT-ILS	Antenna, VOR / ILS		■		■
AC10K-ANT-MB	Antenna, Marker Beacon		■		■
AC10K-CBL6FT	Cable, Coax 6'		■	■	■
AC10K-ANT-FPANT	Antenna, RF Flat Panel w/1' Cable			■	■
UC-584	Coupler, UC-584 w/25' Cable			■	■
UC-584S	Coupler, UC-584S w/25' Cable				■
Software Options	**Select Test Capability**				
AVX-10K-SXPDR	Transponder Modes A,C,S			■	■
AVX-10K-SADSB	ADS-B-In/Out/GICB/Target Gen			■	■
AVX-10K-STCAS	TCAS I/II				
AVX-10K-SDME	DME		■	■	■
AVX-10K-SUAT	UAT In/Out				
AVX-10K-SNAV	Navigation (ILS/MB/VOR)		■		■
AVX-10K-SELT	ELT 121.5/243/406MHz				
AVX-10K-SCOM	Radio Test AM/FM (Comms)		■		■

Selectable Power Cords

AC10K-PWRCRD-US/CAN	AC Power Cord - US / Canada
AC10K-PWRCRD-EU	AC Power Cord - Continental Europe
AC10K-PWRCRD-AUSNZ	AC Power Cord - Australia / New Zealand
AC10K-PWRCRD-INDIA	AC Power Cord - India
AC10K-PWRCRD-UK/IRE	AC Power Cord - UK / Ireland
AC10K-PWRCRD-SWITZ	AC Power Cord - Switzerland

Additional Accessories

AC10K-ANTBRKT	Required to use your current IFR6000 1030/1090 RF Antenna
AC10K-CC	Soft Side Carrying Case
AC10K-BATTERY	Internal Battery, Lithium Ion 7.3V 13Ah
AC10K-CBL12FT	Cable, Coax 12'
141131	Cable, Coax 25'
142839	Cable, Coax 50'
140889	TC-201A TCAS/XPDR Directional Antenna Coupler
90106	UC-584S Coupler Placement Pole

Figure 1. Representative photo of AVX-10K kit (does not apply to AVX-10K-FLTS)

Safety Information

Refer to the Operation's Manual for complete safety information.

Caution:

- Only use the AC Adapter/Charger provided with the product to charge the battery.
- Only connect the AC Adapter/Charger to the correct mains voltage indicated on the ratings label.
- Do not use or store the battery in temperatures that exceed the manufacturer's specifications. Follow manufacturer's instructions for battery storage and use.
- The battery included with the product is only to be used with the AVX-10K.
- Do not overload input connectors. Refer to product specification or product labelling for maximum input ratings.

Grounding Power Cord

⚠️ **WARNING**: DO NOT USE A THREE-PRONG TO TWO-PRONG ADAPTER PLUG. DOING SO CREATES A SHOCK HAZARD BETWEEN THE CHASSIS AND ELECTRICAL GROUND.

For AC operation, the AC Line Cable, connected to the DC Power Supply, is equipped with standard three-prong plug and must be connected to a properly grounded three-prong receptacle that is easily accessible. It is the customer's responsibility to:

- Have a qualified electrician check receptacle(s) for proper grounding.
- Replace any standard two-prong receptacle(s) with properly grounded three-prong receptacle(s).

Product Specifications

Refer to the Product Data Sheet for complete specifications.

Table 1 Temperature Specifications

Parameter	Specification
Storage Temperature	-30 to +71 °C (-22 to 159 °F)
Operating Temperature	-20 to 45 °C (-4 to 113 °F)
Charging Temperature	0 to 45 °C (32 to 113 °F) ≤ 85% RH

Table 2 Power Specifications

Parameter	Specification
Battery Operation	up to 6 hours typical use
Charging Time	5 hours
Power Supply Input	100-240 VAC, 1.5 A, 50-60 Hz
Power Supply Output	12 VDC, 5.0A max, DC Input Connector

Table 3 Maximum Input Ratings

Input Connector	Specification
SWR Connector	20 mW max, 0V DC
RF I/O Connector	4 kW Peak, 10 W average
Antenna Connector	10 W peak, 0.5 W average