Technical Note

AVX-10K

AVX-10K Letter of Equivalency for IFR4000 and IFR6000 Test Sets

This letter acts as the formal statement of the equivalency of the new VIAVI Solutions AVX-10K to the legacy VIAVI Solutions IFR4000 and IFR6000.

Please note: the IFR4000 and IFR6000 products were both formerly owned and manufactured by IFR, Aeroflex, and now owned and manufactured by VIAVI Solutions.

Equivalency Statement

The AVX-10K test system is equivalent to the IFR4000 and IFR6000 in capabilities and technical specification for aircraft certification and testing.

Where the IFR4000 and IFR6000 are currently used for testing, the new AVX-10K can be used as a direct replacement. A detailed side by side comparison is also available for technical evaluation.

AVX-10K

IFR4000

IFR6000

AVX-10K

Test System Model Equivalency

The below table identifies equivalency by model and NSN. Reference the AVX-10K product brochure for detailed options and accessories included with each configuration.

Model (Part Number)	Equivalent AVX-10K Configuration
IFR4000 (72418) 6625-01-516-4656	AVX-10K-NAV
IFR4000AR (22141721) 6625-01-559-2384	AVX-10K-NAV
IFR4000EMB	AVX-10K-NAV with AVX-10K-SELT Option
IFR6000 (72422) 6625-01-069-5582 6625-01-572-1213 6625-01-529-1369	AVX-10K-SVLC
IFR6000 (72422) 6625-01-561-7078 6625-01-567-5667	AVX-10K-SVLC with AVX-10K-STCAS
IFR6000-EMB	AVX-10K-SVLC with AVX-10K-STCAS Note: tripod not included
IFR4000 + IFR6000	AVX-10K-CNS

Note: The above is shown for capability equivalency, the AVX-10K is configurable and any software option can be added to any configuration.

Capability and Application Details

The below table provides a summary of AVX-10K currently available test applications and the timing of new capability releases.

Summary of Test Application

Application	IFR4000	IFR6000	AVX-10K
ATCRBS – Modes A/C		■	■
Transponder MODE S		■	■
ADS-B In/Out		■	■
ADS-B Auto Test AC20-165B		■	■
UAT In/Out		■	■
GICB		■	■
TCAS I/II		■	■
TAS		■	■
TIS-B		■	■
FIS-B		■	■
DME		■	■
VOR	■		■
ILS (LOC-G/S)	■		■
MB	■		■
ELT 121.5/243/406Mhz	■		Dec '22
AM/FM COMMS HF/VHF/UHF/SSB	■		Dec '22
SELCAL	■		Dec '22
Morse Code IDENT	■		Dec '22
VSWR	■		■
Additional Capabilities / Features			
DTF			■
ADS-B Auto CS-ACNS			■
Traffic – Five targets ADS-B/ADS-R/TIS-B			■
Wireless Operation via any remote device			■
GPS Rx			■
StrataSync Cloud Based Asset/Report Mgmt.			■
Available capability is identified with an "■"; otherwise, capability timing is noted			

OEM Approvals

Boeing

The IFR4000 and IFR6000 are on the tooling list for all Boeing and McDonald Douglas active platforms and most retired aircraft platforms. The AVX-10K will be added to these tooling lists as an alternate as priority is established by Boeing.

During recent discussion with Boeing Maintenance Ground and Operations Systems (MGOS) August 2022, Boeing responded with the following – "The current plan is to assign AVX-10K as the tooling number and then customers can work directly with VIAVI for specific options they need. VIAVI is continuing to work with Boeing on getting the AVX-10K listed in the AMM as an alternative to the IFR4000, IFR6000 and targeting the end of 2022 as a completion date".

To help expedite adding the AVX-10K to a Boeing tooling list or development of a task order (procedure) for a Boeing aircraft model, submit your request to Boeing at pmet@boeing.com. In addition to this, Boeing suggests you should also send a Service Request (via Boeing Communication System) for Boeing review.

Airbus

Airbus tooling reference is generic and leaves tooling selection up to the operator to choose suitable test equipment and to create their own custom AMM with supporting procedures.

Procedure Development

It is recommended that the user contact the airframe manufacturer to assist in test procedure transfer to the new AVX-10K if applicable.

To assist users to transfer as seamlessly as possible to the AVX-10K, contact VIAVI Solutions for translation support of IFR4000, IFR6000 and other legacy equipment.

Please reference the following supporting documents:

Brochure

Data Sheet

Request your own IFR4000 and IFR6000 Detailed Specification Comparison documents.

For more information about the AVX-10K
please visit viavisolutions.com/en-uk/products/avx-10k-flight-line-test-set

For technical assistance and questions please contact 844-GO-VIAVI
or email techsupport.avcomm@viavisolutions.com

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