

Software Release Notes

IFR6000 Software Version 04.19.00 Available

9/20/22

Description

The latest released software version for the IFR6000 has changed from Version 04.18.00 to Version 04.19.00. (MKII units only - identified by the presence of MOD Strike 3 on the mod status placard.)

Improvements

DME:

- Improved UUT DME P1 and P2 pulse width measurement.

GENERAL:

- Firmware support for a new GPS Receiver component due to obsolescence.

Download Instructions

The installation package can be downloaded here:

<https://www.viavisolutions.com/en-us/software-download/ifr6000-software>

Contact Information

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IFR6000 Software Version 04.18.00 Available

3/18/2021

Description

The latest released software version for the IFR6000 has changed from Version 04.16.00 to Version 04.18.00. (MKII units only - identified by the presence of MOD Strike 3 on the mod status placard.)

Improvements

DME:

- Morse code ident feature was modified to provide proper timing of the morse code ident cycle.

XPDR:

- A provision for enabling or disabling the Decoder Test is provided in the transponder autotest. This test is not required for flight line or two-year certification testing but is useful as a troubleshooting tool.

SETUP-XPDR		BAT 2.5 Hr	
ANTENNA: BOTTOM		RF PORT: ANTENNA	
	ANT RANGE	ANT HEIGHT	
TOP:	50.0 FT	10.0 FT	
BOTTOM:	50.0 FT	0.0 FT	
ANT CABLE LEN:	6 FT	ANT GAIN (dBi)	
ANT CABLE LOSS:	1.8 dB	0.96 GHz:	7.5
COUPLER LOSS:	0.8 dB	1.03 GHz:	7.1
UUT ADDRESS:	AUTO	1.09 GHz:	6.1
	MANUAL AA:123456	PWR LIM:	43 MOD
DIV TEST:	ON	RAD47:	OFF
DECODER TEST:	ON	CHECK CAP:	YES
ADSB SETUP	PREV PARAM	NEXT PARAM	DIAG TEST DATA

IFR6000 Software Version 04.16.00 Available

9/29/2020

Description

The latest released software version for the IFR6000 has changed from Version 04.15.00 to Version 04.16.00. (MKII units only - identified by the presence of MOD Strike 3 on the mod status placard.)

Improvements

General:

- Remote commands :ADSB:CPR:LONG and :ADSB:CPR:LAT was fixed.

XPDR:

- Fixed an anomaly where on a 'NO REPLY' is returned when the UUT Address is set to Manual Address.

TCAS:

- UUT ALT was displaying incorrect data for altitudes greater than 32750ft.

IFR6000 Software Version 04.15.00 Available

6/27/2019

Description

The latest released software version for the IFR6000 has changed from Version 04.13.00 to Version 04.15.00. (MKII units only - identified by the presence of MOD Strike 3 on the mod status placard.

New Features

General:

- Splash screen was modified to reflect Viavi.
- During the initialization process, a firmware verification routine was added to ensure that the firmware set versions are compatible.

ADS-B:

- In ADS-B GEN, factory preset Airborne and Surface targets were added.

TCAS:

- Manual control of Altitude Rate and Altitude Direction while the scenario is active was added.

UAT:

- In TIS-B and ADS-B GEN, the heading data was modified to non-zero to generate an indication on the UUT display. This applies to Airborne and Ground targets.

Improvements

ADS-B:

- The NIC and Rc values have been corrected to display properly when recalling stored test data.
- In Advisory Circular 20-165 test, the ADS-B Barometric Altitude was not considered when the altitude source is GNSS. This keeps the Altitude Error from being calculated. We have changed the way that we calculate the barometric versus geometric altitude difference to ensure the difference is calculated correctly.

DME:

- The pulse width measurement was modified to improve accuracy when pulses deviate from the nominal pulse width.

XPDR:

- The IFR6000 performs decoding of aircraft tail numbers including foreign tail numbers. The tail number algorithm has changed for Polish aircraft and we do not have the algorithm for the decoding of Polish tail numbers at the time of release of this software. The decoding of the last character of the Polish Tail Number will not be performed and is displayed as a question mark (?).

- Intermittent Self-test error on RF LO and/or RF LOOP was corrected.

UAT:

- In Remote mode, initialization was modified to handle stale data.

IFR6000 Software Version 03.15.00 Available

8/14/2016

Description

The latest released software version for the IFR6000 has changed from Version 03.13.00 to Version 03.15.00. (MKI units only - identified by the presence of MOD Strike 2 and below but not mod strike 3 on the mod status placard.)

New Features

General:

- Added option 6 which allows the IFR6000 to be used with the ADS-B Integrity Test Application.

Improvements

ADS-B:

- On AC20-165 test, the test status was corrected to display "BAD SETUP" if the RTCA Standards Version chosen is earlier than DO-260B.
- Corrected erroneous key function commands and test sequences.

TCAS:

- Improved TCAS Reply Delay and Range Test integrity

Altitude Encoder:

- Improved UUT ALT field display integrity for altitudes greater than 32750ft In
- Improved algorithm for when the Altitude Encoder setting is XPDR to improve Mode C and Mode A intermittent display data.

UAT:

- Added additional data from UAT test dump including Emitter Category, GPS Lateral and Longitudinal Offsets and NIC reading.
- Improved ERP measurement fluctuations.