

Software Release Notes

AVX-10K Software Version 3.1.4 Available

12/22/2022

New Features

- Added COMM Applications – AM, FM, SSB, SELCAL. Requires the AVX-10K-SCOM option key.
- Added ELT Application. Requires the AVX-10K-SELT option key.

Improvements

- The saved file name convention has been made more consistent across applications.
- When only the Glide Slope instrument is active, it now displays the LOC frequency to allow a user to properly channel the radio
- Fixed an issue when entering Latitude and Longitude degrees and minutes.
- Improved Self-Test instructions and report and included in StrataSync downloads.
- Fixed an issue when trying to scroll report files from a mobile device.
- VOR Variable bearing no longer stops at zero.
- Improved XPDR Auto Test reports and corrected time and date issues.
- For the VSWR / DTF Application, the cable loss now has more resolution.
- Added a “Save to PDF” function for XPDR Auto.
- Can now use graphics display to control VOR: Bearing.
- Moved Tx and Rx LEDs light to the status bar.

Errata

The following will be corrected on the next software release.

- ELT 406 MHz Beacon Monitor Sensitivity: ELT 406 on the antenna port specification is -35 dBm. This release is deviated to -25 dBm. RFIO (Direct) connection meets specification.
- AM Meter Sensitivity: The antenna port specification is -20 dBm. This release is deviated to -15 dBm.
- SSB Modulation: Specification variable modulation range is 25 Hz – 3 kHz. This release is deviating to a 1 kHz fixed tone.

Calibration

- Re-calibration is not required for this software release.

Download Instructions

- The installation package is available via your StrataSync account or can be downloaded by [Clicking Here](#).

Contact Information

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AVX-10K Software Version 3.0.9 Available

10/25/2022

New Features

- The AVI-10K now sets unit parameters to a fixed list of default settings when a factory default is issued.
- Improvements made to the ILS / VOR Instrument:
 - Added a Save/Recall function.
 - Added the capability to operate in DDM when using the autopilot test.
 - Added a “Revert to Normal” button to return any parameters to the normal (cal) value if the operator changes any from the normal or default values.
 - Added the ability for the user to create a guided test.

Improvements

- During UAT Target Generation, eliminated the requirement for password entry to allow operators to access the real-time clock synchronization.
- Corrected an issue with loading predefined cables in VSWR/DTF instrument.
- Corrected an issue with inadvertent failures of certain OEM transponders.
- Corrected an issue where the ADS-B instrument recalls DO-260B test data and formats as DO-260A data.
- Corrected an issue with ADS-B AUTO test data where all data is shown as PASS and the overall test status shows as FAIL.
- Added temperature compensation for generator number 2.
- Corrected TCAS sensitivity and ERP measurements.
- Corrected Glideslope indication with an actual display in ILS mode.
- Corrected GICB register 1,7.
- Corrected modulation depth recalculation after a frequency or level change.
- Improved VOR tone control (button) to cycle thru OFF, TONE and MORSE.

- Improved scaling in transponder instrument for watts indication.
- Corrected test result for ELM in transponder autotest.

Calibration

- Re-calibration is not required for this software release.

Download Instructions

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AVX-10K Software Version 3.0.7 Available

08/26/2022

New Features

- Added ILS and VOR Instrument Application. Requires the AVX-10K-SNAV (Navigation) option key.

Improvements

- Altitude Encoder Test, Loop Expanded Tests, and Recall Data improvements for the XPDR AUTO application.
- Watts (in addition to the existing dBm units) added for various instruments.
- VSWR / DTF: VSWR Calibration UI improvements.
- Antenna Range limits corrected for various instruments.

Errata

- ADS-B AUTO: Fail showing on a passing test - overall pass / fail might show fail even though all test points passed.
- ADS-B MONITOR: Recalling past test data in the ADS-B auto test may identify fields incorrectly.
- XPDR AUTO: When selecting Watts for the power units the output power of the transponder is not scaled correctly when displaying ERP.
- XPDR AUTO: Tail numbers from some countries are not decoded correctly.
- VSWR Application Cable Database: Creating user-defined cables *may* cause issues. Suggest users avoid creating cables at this time.

AVX-10K Software Version 2.1.26 Available

4/28/2022

New Features

- Added a “Find Minimum” marker button to the VSWR/DTF instrument.
- Added a “Valley Search” marker button to the VSWR/DTF instrument.

Improvements

- When running an ADS-B test, the results have been changed from “No Reply” to PASS, FAIL or INCOMPLETE.
- The “SAVE PROFILE” button on the DME test instrument has been changed to “SAVE DATA”.
- The results data from a FAR 43 test have been reformatted to fit on one page, front and back.
- Corrected an issue performing a TRANSPONDER AUTO TEST, where the test would halt after 4% of the test while testing a nonstandard transponder configuration.
- Corrected an issue of the cable database in the VSWR/DTF instrument not being updated when a new version of the software was installed.

Errata

- None

Download Instructions

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AVX-10K Software Version 2.1.7 Available

3/17/2022

New Features

General:

- Added DME and UAT Monitor Test Applications
- Updated the ability to load options via USB on the Software Options page

Transponder Autotest:

- Added FAR 43 ATCRBS test configuration

Improvements

Transponder Autotest:

- Corrected the Transponder Auto Test summary length/width items not previously filled in on the summary report.

- Updated tab names in Transponder Auto Test to match port setting. The TOP and BOTTOM tabs on the Transponder Auto Test were incorrectly indicating which RF port was being used for testing.

Errata

- None

Download Instructions

- The most current software version for updating via USB drives for the AVX-10K is available as a download by [Clicking Here](#).

AVX-10K Software Version 2.0.49 Available

12/10/2021

New Features

General: None

Improvements

- Transponder Autotest: Fixed issues with testing ATCRBS only transponders
When testing ATCRBS only transponders, the AVX-10K would record failures resulting from the ATCRBS transponder not responding to the MTL search routine. The MTL search routine was modified to accommodate ATCRBS transponders.

Errata

- None

Download Instructions

- The most current software version for updating via USB drives for the AVX-10K is available as a download by [Clicking Here](#).
- This software version can be deployed to your AVX-10K through [your StrataSync account](#).

AVX-10K Software Version 2.0.20 Available

11/16/2021

New Features

General: None

Improvements

- General:
 - Corrected System Settings Calibration date
- Transponder Autotest:
 - Addressed lockup issue when running a transponder autotest
 - Fixed Reply Ratio failing in Mode S auto test
- TCAS:
 - Fixed the TCAS Mode S Pulse Shape
- UAT:
 - Fixed UAT Gen Latitude and Longitude discrepancy
- VSWR/DTF:
 - Added save & recall for VSWR calibration
 - Corrected some VSWR UI issues

Errata

Failures of Generic ATCRBS Transponder Auto tests - Testing ATCRBS only transponders result in failures while the AVX-10K is testing ALL-CALL short mode A and ALL-CALL short mode C protocols.

This will be corrected on the next firmware release.

Download Instructions

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AVX-10K Software Version 1.0.39 Available

9/24/2021

New Features

- General: None

Improvements

- General:
 - Fixed pulse amplitude variation measurements
 - Test reports align with only the tests run
 - Improved performance in high traffic environments

- Fixed reply jitter measurements
- Transponder Autotest:
 - Addressed occasional lockup issue when running a transponder autotest
- TCAS:
 - Fixed altitude range and rate calculations in TCAS application when converge setting is on

Errata

- None

AVX-10K Software Version 1.0.21 Available

9/08/2021

New Features

- General: Initial release

Improvements

- General: Initial release

Errata

- TCAS instrument: Using the converge setting in the on-condition results in incorrect vertical speed calculations for the scenario. Use Converge off until the anomaly is repaired.

Download Instructions

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