

Version 1.7.4 Release Notes

Version 1.7.4 is compatible with all 3901, 3902 and 3920 models of the 3900 Series product line. Version 1.7.1 is the MINIMUM version required to be used with the new 3920 variant of the 3900 Series.

New features and functions universal to all 3900 Series products in this release:

Analog Duplex System

1. Added Modulator selection to Oscilloscope to view summed modulation sources.
2. Added 100 and 200 Hz scales to Oscilloscope Demod scales.
3. Added Two Tone sequential tone encoder tile.
4. Added feature to lock the Modulation Distortion / SINAD meter notch frequency to AF1 frequency.
5. Added feature to lock the Audio Distortion / SINAD meter notch frequency to the M1 frequency.
6. Added Log / Linear plot to Audio Analyzer option (390XOPT055)
7. Improved reliability of remote interface.
8. Improved Tracking Generator Leveling.
9. Improved AM Generator Leveling

P25 System

1. Added FM Analog Generate / Receive mode to P25 System (390XOPT200).
2. Added FM Analog metering to P25 System:
 - a. Audio Distortion Meter
 - b. Audio Frequency Meter
 - c. Audio Level Meter
 - d. Audio SINAD Meter
 - e. Broadband Power Meter
 - f. Demod Distortion Meter
 - g. Demod Frequency Meter
 - h. Demod SINAD Meter
 - i. FM Deviation Meter
 - j. In Band Power Meter
 - k. RF Frequency Error Meter
3. Added Demod Audio to Scope Display.
4. Added Peak / Avg selection to Modulation Fidelity meter.
5. Improved P25 Trunking Virtual Mobile simulation.
6. Improved P25 Data Link decoding.
7. Added KVL Keyloader / Cable option to P25 System (390XOPT209)
8. Added Smartnet / Smartzone Trunking for P25 Traffic channel handoffs (390XOPT207).

DMR

1. Added DMR (MOTOTRBO) parametric analysis system (390XOPT400).

Other:

There were many performance improvements / bug fixes implemented in this release.

Version 1.7.3 Release Notes

Version 1.7.3 is compatible with all 3901, 3902 and 3920 models of the 3900 Series product line. Version 1.7.1 is the MINIMUM version required to be used with the new 3920 variant of the 3900 Series.

New features and functions universal to all 3900 Series products in this release:

Analog Duplex System

1. Added Pk-Pk / 2 Deviation meter scale.
2. Added selectable resolution to auto-tune 1 Hz, 100 Hz, 1 kHz.
3. Added selectable IB / BB power meter selection to Analyzers tile.
4. Added DCS and DCS INV Decode to Analyzers Tile.
5. Improved Squelch and Volume operation.
6. Analog Duplex Squelch will now produce flat line on scope when squelched.
7. Improved meter averaging functions.
8. Added additional DTMF key entries.
9. Added Power meter ranges 1 W, 2 W, 5 W.
10. Stabilized the audio filters to prevent oscillation.
11. Arbitrary H&N Reference remote command added.

P25 System

1. Improved P25 Conventional operation.
2. Improved P25 C4FM, CQPSK and LSM synchronization.
3. Improved P25 Trunking operation.
4. Removed P25 patterns LDU1TRG and LDU2TRG.
5. Added P25 Trajectory Plot.
6. Corrected errors on signal encoding of P25 patterns.
7. Corrected errors on P25 data link decoding of MI field.

TETRA:

1. Loopback function corrected for PowerPC based 3900s.

Overall

1. Improved store and recall functions for all systems.
2. Return key can now be used to minimize an expanded tile.
3. Added Verification Procedure setups to setups directory. Version 1.7.2 and below had to be loaded from Maintenance CD ROM.
4. Added HPD setup files for testing Base Stations and Mobiles to Sample Setups.
5. Updated all pre-configured setup files for Analog and P25 in the Samples directory.
6. Added Manual / Auto mode to AC Power control in Hardware settings / operational status.

Version 1.7.2 Release Notes

Version 1.7.2 is compatible with all 3901 and 3902 versions of the 3900 Series product line. Version 1.7.1 is the MINIMUM version required to be used with the new 3920 variant of the 3900 Series.

New features and functions universal to all 3900 Series products:

1. Improved P25 conventional operation (390XOPT200 P25 Conventional)
2. Improved P25 Trunking operation (390XOPT201 P25 Trunking)
 - a. Note: this option requires(390XOPT200 P25 Conventional)
3. Improved HPD performance (390XOPT300 HPD Testing Option)
4. Added DES Encryption as a standard feature to (390XOPT200 P25 Conventional)
5. Expanded features for Spectrum Analyzer and Tracking Generator
6. Added LSM Generate and Receive/Analysis option (390XOPT204)
 - a. Note: this option requires (390XOPT200 P25 Conventional)
7. Improved Save/Recall functions
 - a. Sample setups are now provided for basic Analog radio testing
 - b. Sample setups are now provided for aligning XTS-3000, XTS-5000, Quantar Base radios
8. Added new GPIB RCI commands
9. Improved Analog Duplex functions