

E8740A

Automotive Radar

This document lists the new features and updates of the software. Refer to the respective manuals and guides for further details on the new features and updates.

Keysight E8740A Software Version 2.0

Released Date:	5 Jun 2020
Operating System:	Microsoft Windows 10 Microsoft Windows 7
TAP Software Version:	8.8.78
File Name:	AutomotiveRadar.tap (2.0) AutomotiveRadarEtsi.tap (1.1) InterferenceTest.tap (1.0)

New Features

- Interference Signal (E8740A-080 Interference Test Solution)

E8740A-080 Interference Test Solution allows you to generate continuous waveform (CW) or Frequency-Modulated Continuous Wave (FMCW) interferer signal along with target information. Additional features like power sweep and frequency sweep are available. Also added are new test steps like Adjust Signal Generator Output Power and Trigger Operation for controlling the Arbitrary Waveform Generator (AWG), which are similar to the AWG soft front panel features.

- Radar Target Simulator (E8718A Radar Target Simulator with Radar Remote Head)

Radar Target Simulator (RTS) Set Setting and RTS Query Setting test steps are available to control the standalone Radar Target Simulator only.

- System Compensation (Available for E8740A-080A)

System Compensation automatically takes care of the power loss for the interferer signal between the generator and the transmit antenna.

- Basic Feature – Waveform Import

Waveform Import under the Basic Feature allows you to generate a signal based on the given waveform file.

Keysight E8740A Software Version 1.1.12

Released Date:	3 Oct 2019
Operating System:	Microsoft Windows 10 Microsoft Windows 7
TAP Software Version:	8.8.78
File Name:	AutomotiveRadar.tap AutomotiveRadarEtsi.tap

New Features

- Automotive Radar Global Settings

Automotive Radar Global Settings allows you to inherit the same settings throughout all tests with one-time setup. This feature saves you the time and effort required to set up each test.

- GB/T 36654-2018

GB/T 36654-2018 - Vehicle Radio Equipment for China; RF technical requirements and test methods, operating at 76 GHz. Standards specify the technical requirements, test methods, inspection rules, signs, and packages for automotive radar products operating at 76 GHz band.

- Custom settings for mixer

Set Custom Settings to configure the X-Series Analyzer manually.

Keysight E8740A Software Version 1.0.0

Released Date:	30 Jun 2019
Operating System:	Microsoft Windows 10 Microsoft Windows 7
TAP Software Version:	7.4.00
File Name:	AutomotiveRadar.tap AutomotiveRadarEtsi.tap

Features

- Automotive Radar Local Settings for the following standards.
 - Added Transmitter Conformance and Receiver Conformance to ETSI EN 301 091 and ETSI EN 302 264
 - Added Transmitter Conformance except for Mean Power and Receiver Conformance to ETSI EN 302 858
- Basic Features
 - **Signal Analysis** consisting of Channel Power and Occupied BW
 - **Signal Generation** consisting of Continuous Wave, Custom Chirp Signal, FMCW - Up/Symm/Down, MFSK
 - **Signal Quality Measurement** consisting of FMCW Signal Quality