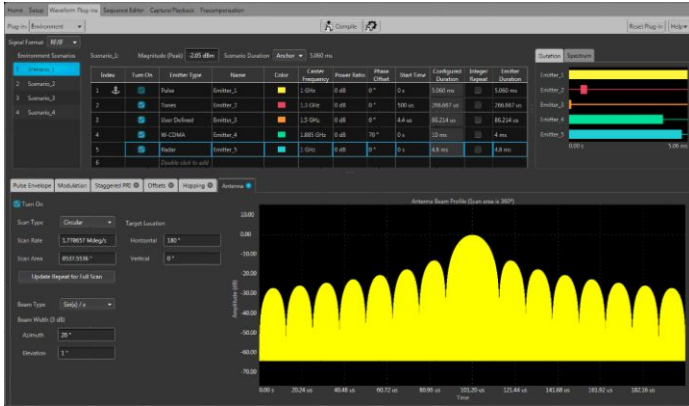


Applications for SourceXpress® and AWG70000/5200 series generators

Environment Plug-in Datasheet



The Tektronix Environment signals plug-in is a simple and flexible tool to create real world scenarios for commercial, electronic warfare, and simulations for monitoring and receiver testing. The plug-in integrates into the SourceXpress waveform creation platform, and the AWG70000 series and AWG5200 series arbitrary waveform generators.

Key features

- Build a variety of scenarios (up to 50 scenarios)
- Flexible emitter control
 - Large selection of emitters available
 - Add up to 100 emitters to a scenario
 - Control the start time and duration of each emitter
 - Set power, center frequency/baseband offset, and starting phase of each emitter
- Compile scenario waveforms and scenario sequences
- Create RF/IF or IQ signal formats
- Time and frequency domain preview plots
- Import captured/user defined interference signals
- Offline mode
 - Capable to run on an external PC via the SourceXpress application, thereby reducing the time taken to synthesize large waveforms and leaving the instruments free for continued testing

1 Requires a Radar plug-in license.
 2 Requires an OFDM plug-in license.
 3 Requires an RF Generic Signals plug-in license.

- Seamless transition between design and playback
 - The easy to use graphical user interface integrates seamlessly with the user interfaces of the SourceXpress PC application and the Tektronix AWG70000 series and AWG5200 series generators
- Designed for integration for automated test or manufacturing
 - Programmatic Interface allows for integration into existing workflows

Flexibility

The Environment Signal Creation plug-in allows users to emulate the interference between signals to test receivers under realistic and worst-case conditions. Users can configure the various standard-specific parameters of these interfering signals, including power levels, start time, and duration.

The standard-specific emitters supported include:

Bluetooth	DVB-T	P25
CDMA	GSM	WiFi
W-CDMA	LTE	WiMAX

In addition to creating standard-specific emitters, users can create many other emitter signals such as:

Radar ¹	Digital modulation ³	Tones
OFDM ²	Pulses	User defined emitters to playback user created/captured waveforms
Analog modulation ³	Noise	

Requirements

- Plug-in installed with SourceXpress on PC:
 - SourceXpress software version 5.3 or greater
 - PC operating systems: Windows 7 (64 bit), Windows 8 (64 bit), Windows 10 (64 bit)
- Plug-in installed on compatible instruments:
 - AWG70000 Series, firmware version 5.3 or greater
 - AWG5200 Series, firmware version 6.0 or greater

Ordering information

Models

ENVFL-SS01 Environment plug-in with a floating license that can be reassigned to different Tektronix instruments or PCs.

ENVNL-SS01 Environment plug-in with a node locked license tied to a single instrument or PC.

The Environment plug-in can be downloaded for free and a trial license is available. Complete functionality and continued use requires the purchase of a license.

Visit the [SourceXpress](#), [AWG70000](#), or [AWG5200](#) product pages to obtain the software and license.

How to purchase

To purchase, visit the Tektronix web site to request a quote or contact your nearest sales representative.

Additional information

This and other plug-ins are available for SourceXpress and compatible waveform generators.

Use the following website links to view available application plug-ins, downloads, and trial licenses.

- [SourceXpress website](#)
- [AWG70000 Series website](#)
- [AWG5200 Series website](#)

Licensing

Each plug-in (for SourceXpress, the AWG70000 Series generators, and the AWG5200 Series generators) requires the purchase of a license before they are functional. Some plug-ins may require additional licenses to unlock specific plug-in features. Licenses are managed within the Tektronix Asset Management System (Tek AMS). The Tek AMS website address is www.tektronix.com/products/product-license. Product license management requires a login account.

There are two types of licenses available: node-locked (NL) and floating (FL).

- Node Locked Licenses provide your own copy of the application on your instrument or personal computer and are permanently assigned to a specific Host ID or product model/serial number.
- Floating licenses can be moved between different Host IDs or product models.

Use the Tektronix Asset Management system to check in and check out floating licenses.



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

ASEAN / Australasia (65) 6356 3900
Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (3) 6714 3086
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea +822 6917 5084, 822 6917 5080
Spain 00800 2255 4835*
Taiwan 886 (2) 2656 6688

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
United Kingdom & Ireland 00800 2255 4835*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
Italy 00800 2255 4835*
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 80 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tek.com.

Copyright © Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.

