

# WaveWizard

## ❖ Event Driven to Tester Simulation Results

### WHAT IS WAVEWIZARD — WHAT DOES IT DO?

- An innovative pattern conversion program that provides test engineers with an automatic tool for generating ATE programs from the designer's simulation data.
- Generates a test program according to the device spec, avoiding the inherent problems that exist when trying to force an event-driven simulation into a constrained ATE test program.
- Improves communication among project participants through use of common engineering tools such as timing diagrams, logic-analyzer type waveforms, and tabular datasheet terms.
- Inputs are the drawn timing diagrams, the Verilog VCD file, EVCD, STIL, and WGL; outputs are the test program files to run the tester.

**WAVE  
WIZARD**

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### WHAT ARE THE USER BENEFITS OF WAVEWIZARD?

- Provides early testability validation of the IC design.
- Reduces IC test development time.
- Generates quality test programs.
- Increases productivity, shortens test preparation time, and reduces time-to-volume.
- Increases tester utilization for new devices.

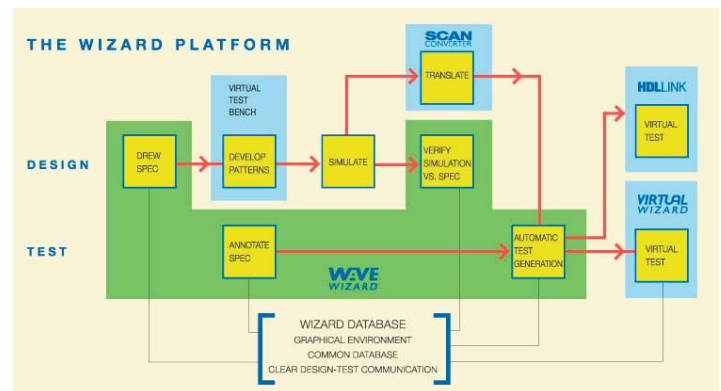
Sign up for WaveWizard Training.  
See page 2 for details.

### LICENSE INFORMATION

WaveWizard will be distributed to Teradyne customers along with IG-XL V5.10.00 and greater. Demo licenses are available on request. Licenses can be obtained by contacting your Teradyne Sales or GSO representative for more details.

### FEATURES

The easy-to-use GUI facilitates communication between design and test engineers as they both look into device-timing diagrams and not things specific to a paradigm of work. The designers can draw the device spec in WaveWizard and use these drawings to publish/print the device spec. They can also verify whether their simulation reflects the actual device spec or went astray.



The diagram above shows the flow of the test program development starting with the device spec, through pattern development, simulation, test program generation and debut using the DUT simulation model.

It is not necessary that designers be involved; the test engineers can do everything by replicating device datasheet timing diagrams and executing WaveWizard against simulation results. The test engineer adds tester cycle knowledge either over the designer's timing diagrams or draws the diagrams from scratch.

WaveWizard is a versatile program; the work can be easily split between different people independent of location. It saves time and effort for the engineer. The engineer can alternatively use the fine-tuning features to utilize the experience.

The bottom line is this is a new method of automatic test program generation that has been proven to require the least amount of debug on the tester, and the least amount of modifications as the product develops in future versions.



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## ❖ Take advantage of Teradyne's WaveWizard training

### WAVEWIZARD COURSE DESCRIPTION

- This three-day course will introduce the WaveWizard tool and describe its features and role in the design-to-test flow. The major focus will be on how to convert VCD/EVCD simulations. The course includes hands-on classroom labs and tutorials with time for work with customer simulations for a real-world experience. After completing this course, participants will understand the different features available with the WaveWizard tool.
- In this course, participants will learn how to:
  - Design simulation file formats supported by WaveWizard.
  - Best use WaveWizard to their advantage.
  - Relate device cycles to tester cycles.
  - Draw and match diagrams to simulation waveforms, i.e., cyclization.
  - Choose pattern data and timing formats, i.e., sampling.
  - Create tester files for a target platform, i.e., generation.
  - Convert WGL.



### COURSE PREREQUISITES

- Knowledge of tester timing formats for at least one Teradyne platform.
- Experience in developing test programs including patterns and spec-based or device relation-based timings for a Teradyne platform.

### HOW TO REGISTER

Contact Teradyne Customer Training Registration.

#### BY PHONE

Dial +800-TERADYNE (Canada and USA) or click the Contact Customer Care button at <http://support.teradyne.com> for local contact information.

#### OVER THE WEB

- Register online at <http://www.teradyne.com> > Training > Semiconductor Test
- Click the Class ID or Enroll icon to register for **WaveWizard**.

#### BY EMAIL

CustomerTraining@teradyne.com

#### QUESTIONS?

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TRAINING @ TERADYNE

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