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Time Correlation with Agilent Infiniium Oscilloscopes

E5850A Logic Analyzer - Oscilloscope Time Correlation Fixture

E5850A Logic Analyzer – Oscilloscope Time Correlation Fixture

The Agilent E5850A time correlation fixture allows you to make time-correlated measurements between a 16700 logic analyzer and an Agilent 548XX Series Infiniium oscilloscope to solve the following types of problems more effectively:

- Verifying signal integrity
- Tracking down problems caused by signal integrity
- Verifying correct operation of A/D and D/A converters
- Verifying correct logical and temporal relationships between the analog and digital portions of a design

Agilent's E5850A time correlation fixture works in conjunction with software in the 16700 family logic analyzers, and any Agilent Infiniium 54800 Series oscilloscope, to deliver the following features:

- **Automatic de-skew.** Measurements between the logic analyzer and Infiniium oscilloscope are automatically de-skewed in time. This saves you time and gives you confidence in the measurement results.
- **Combined waveform display.** The Infiniium oscilloscope waveforms are displayed in the waveform display window on the 16700 logic analyzer, along with timing analyzer waveforms. This allows you to instantly visualize time relationships among oscilloscope and timing measurements.
- **Global markers.** The global markers in the 16700 may be used to measure time among all measurements made in the logic analyzer and Infiniium oscilloscope measurements.

- **Tracking markers.** The Infiniium oscilloscope's time markers track the global markers in the 16700 logic analyzer. If you wish to view a waveform in greater detail on the oscilloscope's display, or measure a voltage level using the oscilloscope's voltage markers, this feature allows you to relate information on the oscilloscope's display precisely to corresponding information on the logic analyzer display.



Figure 5.26. E5850A time correlation fixture.



Figure 5.25. Infiniium oscilloscope waveforms are displayed in the 16700 logic analyzer waveform display window along with logic analyzer timing waveforms, accurately time-correlated.

Compatibility

For Infiniium scope model number	Software version for 16700 series logic analyzer	Software version for oscilloscope
54810A 54815A 54820A 54825A 54835A 54845A 54856A	A.02.20.00 or higher	A.04.00 or higher
54830B 54831B 54832B	A.02.50.00 or higher	A.01.00 or higher

The E5850A requires the versions of operating software indicated in the table



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