Spectrum Analysis Options

**SPECTRUM-PRO-2R**

**SPECTRUM-1**

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**Key Features**

- Logarithmic horizontal and vertical scales
- Drag-and-drop spectrum traces
- Non-linear “sniffer” probe correction factors
- Spectral background removal
- Reference, Persistence, Average, and Max Hold spectral waveforms
- Spectrograms in 2D or 3D views
- Peaks and markers tables
- Spectral mask testing using .csv data masks

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**Most Flexible Spectral Analysis**

Simplify waveform analysis in the frequency domain by leveraging spectrum-analyzer-style controls and drag-and-drop capability. Correlate spectral content easily by simultaneously displaying channel, math, and spectral waveforms.

**Unique Debug Features**

SPECTRUM-PRO-2R enables up to two spectral waveforms with different frequency spans and resolution bandwidths to help debug different behavior in the same acquisition. Spectral background removal eliminates spurious interference from environmental or other sources.

**Spectrograms Display Spectral Changes Over Time**

Monitor spectrum changes over time by viewing a 2D or 3D color-graded history of the frequency content.

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**Best Sniffer Probe Support**

Apply non-linear transducer or antenna correction factor re-scaling using nearly any electrical or magnetic unit of measure (e.g., Teslas, Webers, Henrys, Siemens, V/m, C/m², A/m, H/m). This greatly increases the utility of the spectral analysis by displaying properly scaled spectrum waveforms, makes accurate pass/fail testing possible, and simplifies testing. Connect the CA10 sensor adapter to save all of the re-scaling information and turn the transducer into a quick-connection probe.

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**Widest Spectral Range and Most Spectral Details**

Perform spectral analysis down to 1 Hz with resolution bandwidth of 100 mHz – ideal for low frequency magnetic testing. Utilize the long memory in Teledyne LeCroy oscilloscopes to acquire waveforms up to 250 Mpt for analysis of very wide frequency spans at high resolution bandwidths.
ORDERING INFORMATION

Spectrum Analyzer Options Overview

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<tr>
<td>Number of Spectrum Traces</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Logarithmic Scale</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Spectrogram (2D/3D)*</td>
<td>✓</td>
<td>✓</td>
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<td>Sniffer probe/CA10 Support*</td>
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<td>✓</td>
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<td>Pop up Peaks and Markers Table</td>
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<td>Reference Trace</td>
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<td>Spectral Background Removal</td>
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<td>✓</td>
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<td>Spectral Mask Testing</td>
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<td>✓</td>
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</tbody>
</table>

*Not supported on WaveSurfer Oscilloscopes

Product Description

**SPECTRUM-PRO-2R: 2 Traces + Reference**

- Spectrum Analyzer for HDO6000: HDO6K-SPECTRUM-PRO-2R
- Spectrum Analyzer for WaveRunner 9000: WR9K-SPECTRUM-PRO-2R
- Spectrum Analyzer for HDO8000/MDA800: HDO8K-SPECTRUM-PRO-2R
- Spectrum Analyzer for WaveRunner/MDA 8000HD: WR8KHD-SPECTRUM-PRO-2R
- Spectrum Analyzer for WavePro HD: WPHD-SPECTRUM-PRO-2R
- Spectrum Analyzer for WaveMaster 8 Zi: WM8Zi-SPECTRUM-PRO-2R
- Spectrum Analyzer for LabMaster 10 Zi: LM10Zi-SPECTRUM-PRO-2R

**SPECTRUM-1: 1 Trace**

- Spectrum Analyzer for WaveSurfer 3000z: WS3K-SPECTRUM-1
- Spectrum Analyzer for WaveSurfer 4000HD: WS4KHD-SPECTRUM-1
- Spectrum Analyzer for HDO4000: HDO4K-SPECTRUM-1
- Spectrum Analyzer for WaveRunner9000: WR9K-SPECTRUM-1
- Spectrum Analyzer for WaveRunner/MDA 8000HD: WR8KHD-SPECTRUM-1
- Spectrum Analyzer for WavePro HD: WPHD-SPECTRUM-1
- Spectrum Analyzer for WaveMaster 8 Zi: WM8Zi-SPECTRUM-1
- Spectrum Analyzer for LabMaster 10 Zi: LM10Zi-SPECTRUM-1

Customer Service

Teledyne LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted for one year.

This warranty includes:
- No charge for return shipping
- Long-term 7-year support
- Upgrade to latest software at no charge

Spectrum shows 2D or 3D views of changing spectral content.

Two different spectrums can be calculated from one acquisition to display very different center frequencies, spans, and frequency resolutions.