# Wavepilot

## Operating Aid Puts All A Scope's Power At Your Fingertips

Modern digital oscilloscopes have gone far beyond the basic ability to just view a waveform. Often, much of a scopes advanced display, analysis and measurement capabilities are not utilized by casual users who don't have time to scale the learning curve. LeCroy has addressed this issue, in the WavePro™ series oscilloscopes, with the Wavepilot toolbar. Wavepilot uses front panel pushbuttons to access measurement tools like cursors and parameters. It also provides direct access, via the Wavepilot Graph button, to math analysis functions including histograms, fast Fourier transforms (FFT), and the unique JitterTrack™ timing analysis. Finally, application specific analysis options, like communications mask testing, disk drive, and power measurements, can be reached by means of the Analysis Packages button.

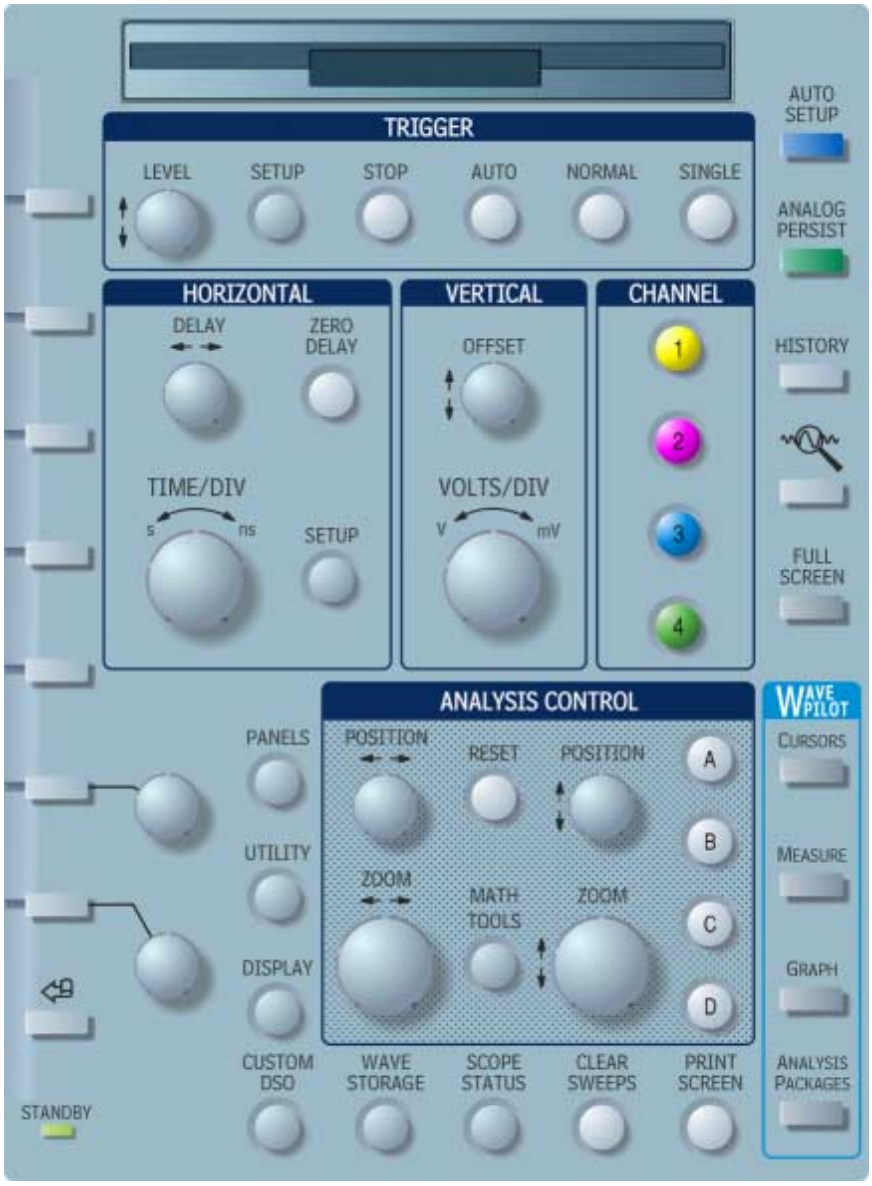


**Figure 1 – The WavePro front panel showing the Wavepilot and related controls.**

Two related buttons are QuickZoom, indicated by the magnifying glass icon, and History. QuickZoom is used to immediately show a zoom (magnified) display of the current acquisition channels. Figure 2 provides an example of a typical QuickZoom display. The QuickZoom menu includes controls for overlapping the traces and using Auto Scroll to scan through the expanded display.

History turns on Analog Persistence and sequence acquisition modes, to show the history of waveform variations over many acquisitions.

The application of History and Graph functions are described in LeCroy application briefs LAB 430 and LAB431, respectively.

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Figure 3 is an example of the Wavepilot Measure function. The figure shows a view of the measurement Dashboard which provides a summary of 26 key waveform parameters for the selected waveform. Wavepilot Measure is context sensitive so wheter you use Measure on a signal, FFT, or a histogram, relevant and helpful parameters will be measured

The Wavepilot Cursor button immediately displays the cursor control menu shown in figure 4. This greatly enhances the accessibility of this frequently used function.

Wavepilot simplifies access to the most often used measurement and analysis tools offered in a modern digital oscilloscope. This is accomplished without reducing or changing the underlying functionality of LeCroy oscilloscopes. Power users will still find all the controls they are used to operating with, but the casual users will have simpler access.

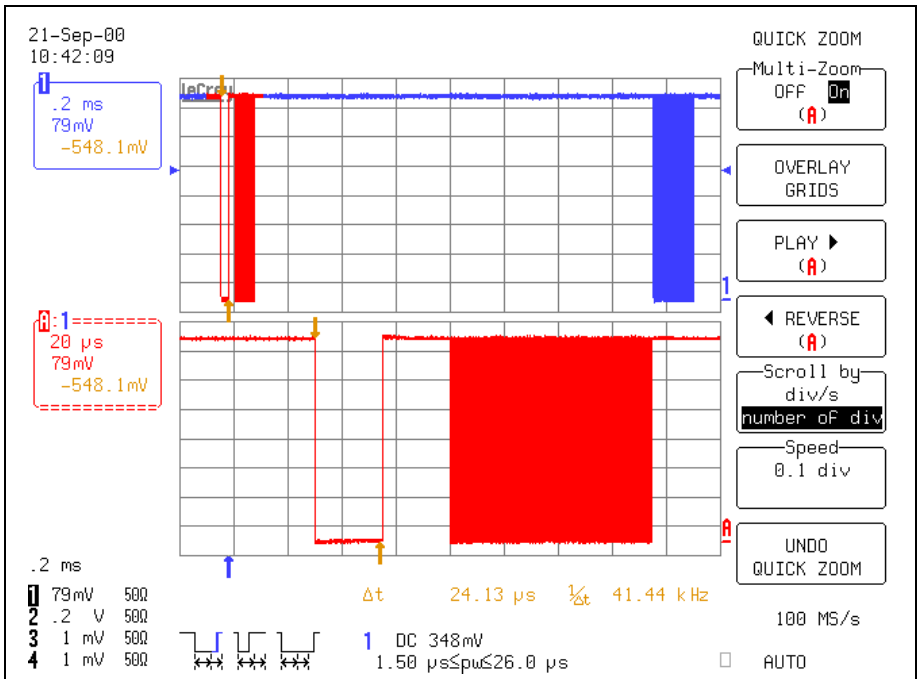


**Figure 2 A view of the QuickZoom display for a single trace.**

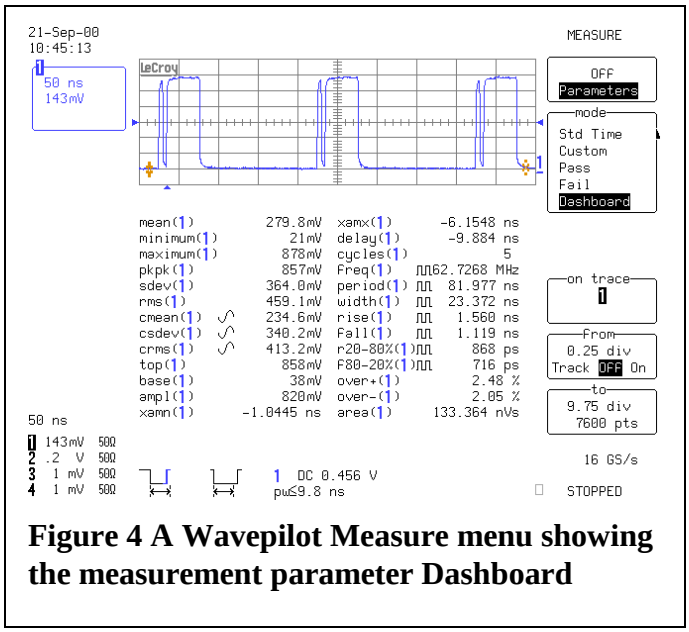


**Figure 4 A Wavepilot Measure menu showing the measurement parameter Dashboard**

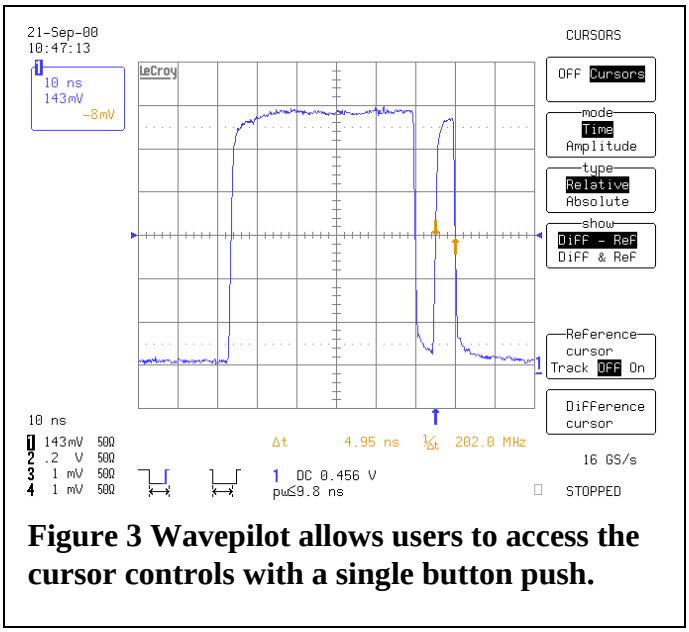


**Figure 3 Wavepilot allows users to access the cursor controls with a single button push.**