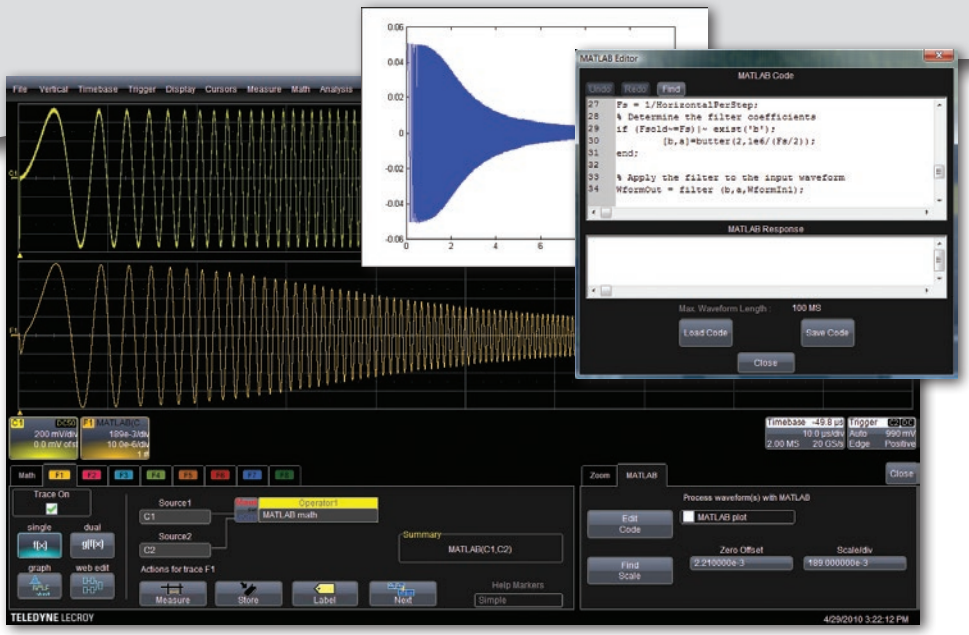
TELEDYNE LECROY
Everywhereyoulook™

XDEV
Advanced Customization Software Package



XDEV Customization software package being used to implement a 1 MHz Butterworth filter using MATLAB®.

Leading Features

- **Create and run your own custom measurement and math algorithms**
- **Supports MATLAB, C/C++, Visual Basic Script, VBA, MS Excel,® and JavaScript**
- **Fully and uniquely integrated into the scope processing architecture and display**
- **Optimizes custom algorithm processing speed by using a shared memory window**
- **Oscilloscope or other instrument/software control commands can be simultaneously embedded into customized algorithms**
- **CustomDSO and plug-in capability allows user-defined graphical user interfaces**

Unsurpassed Customized Integration

Teledyne LeCroy oscilloscopes incorporates a fast, robust COM-based architecture that provides a level of fully-integrated customization that simply cannot be approached by any other oscilloscope. User-defined algorithms can be created and inserted into the oscilloscope processing engine and the result returned as a processed function or measurement that can be displayed like any other oscilloscope trace and further processed by internal or user-defined algorithms. The integration is complete and seamless, and processing is fast. There is no need to run a separate program, or ever leave the oscilloscope window.

Wide Variety of Integration Possibilities

XDEV supports creation of user-defined measurement parameters and math functions. Algorithms can be created using script in your favorite programming language: MATLAB, Visual Basic, C/C++, Excel, or Java. Since the oscilloscope supports Microsoft® Automation commands for remote control, these can also be embedded into the user-defined algorithm enabling "smart algorithms" capable of making real-time decisions during calculation.

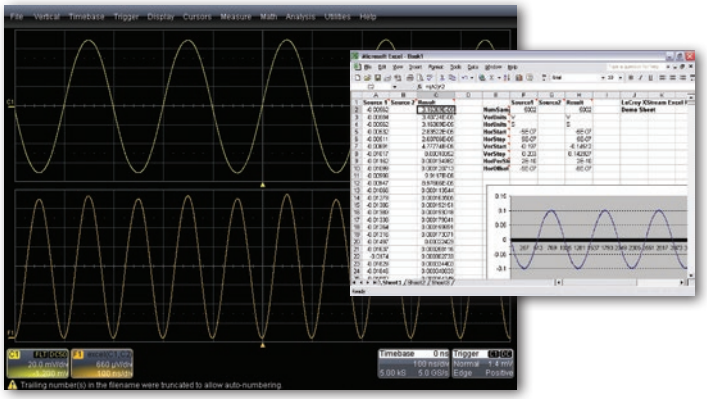
Advanced Capability

Completely new user interfaces and control capability can be created and supported using ActiveX plug-ins. For instance, a new customized user-interface can be developed and integrated into the oscilloscope user interface as a new dialog box. This user interface can incorporate control and display of the Teledyne LeCroy oscilloscope using Visual Basic or C/C++.

SPECIFICATIONS AND ORDERING INFORMATION

Create Custom Measurements and Math Functions

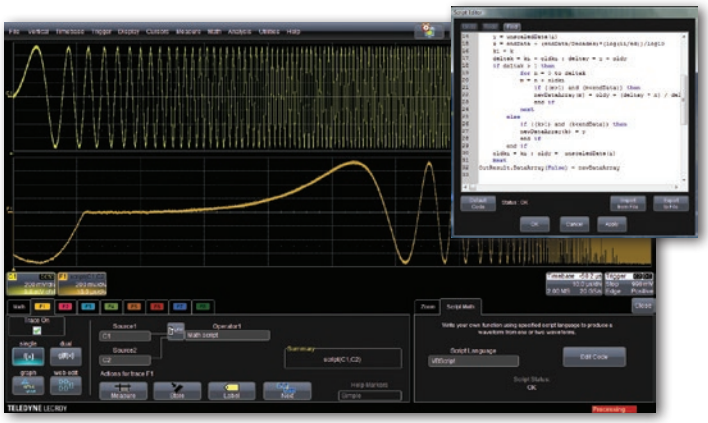
With XDEV you are able to create your own custom measurement parameters and math functions for limitless analysis capability. Use your own proprietary measurements in the scope to deploy proprietary solutions faster. All of your custom algorithm results are returned on the oscilloscope grid the same as built-in Teledyne LeCroy capability, and may be further processed or analyzed using standard oscilloscope tools. Insight is faster with XDEV capability.



Excel performing a simple squaring of a channel and returning the result to the oscilloscope display.

Customizable User Interface

CustomDSO allows you to create setups that can be recalled by the touch of a single button. The recalled setups can include other setups. This allows you to create macros as well as trees of setups. CustomDSO also allows you to embed your own ActiveX controls within a setup.



VBScript being used to show a logarithmic time base scale.

Plug-ins

XDEV allows you to plug-in a custom ActiveX Control designed in an environment like Visual Studio, and merge this graphical user interface with the scope user interface. This feature opens up the door to a huge variety of applications previously not possible or possible only via remote control from an external PC.

FastWavePort

FastWavePort is a processing function for Teledyne LeCroy oscilloscopes that enables you to insert your own custom processing algorithm, written in the C/C++ language, into the oscilloscopes processing stream. FastWavePort maximizes data throughput from the acquisition system to your processing.

XDEV Advanced Customization Package is supplied as standard in:

– LabMaster® 10 Zi Series
– LabMaster® 9 Zi-A
– WaveMaster® 8 Zi-A Series
– WavePro® 7 Zi-A Series

XDEV Advanced Customization Package is optionally available for:

– WaveRunner® Xi, Xi-A Series
– WaveRunner HRO / 6 Zi Series
– HDO6000 Series

Ordering Information

Product Description	Product Code
Advanced Customization Package for WaveRunner Xi/Xi-A Oscilloscopes	WRXi-XDEV
Advanced Customization Software Package for WaveRunner 6Zi and HRO 6Zi	WR6Zi-XDEV
Advanced Customization Software Package for HDO6000	HDO6K-XDEV

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

TELEDYNE LECROY
Everywhereyoulook™

1-800-5-LeCroy
teledynelecroy.com

Local sales offices are located throughout the world.
Visit our website to find the most convenient location.

© 2010 by Teledyne LeCroy, Inc. All rights reserved. Specifications, prices, availability, and delivery subject to change without notice. MATLAB is a registered trademark of The MathWorks, Inc. All other product or brand names are trademarks or requested trademarks of their respective holders.

XDEV-DS-17jul13