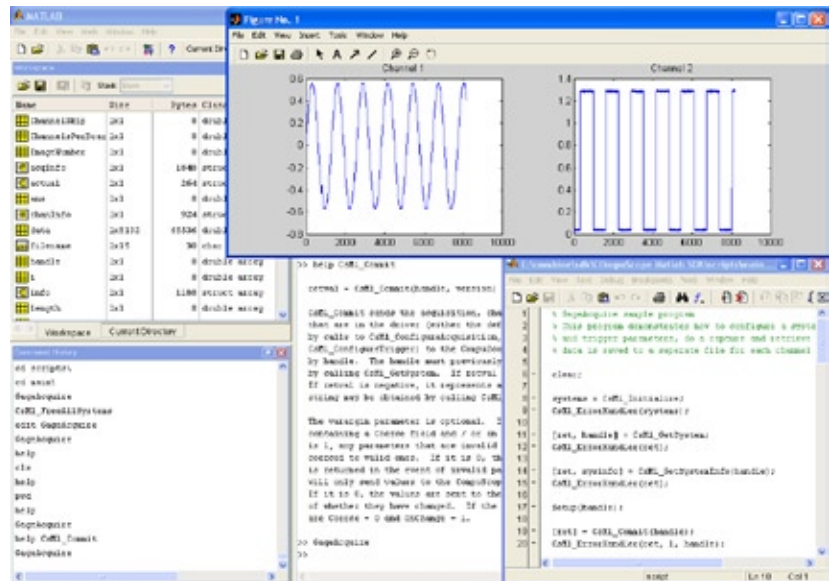# GaGe

CompuScope MATLAB SDK for Windows

Support PCI and cPCI/PXI CompuScope Cards

Gage's powerful and easy-to-use SDKs allow rapid integration of Gage hardware into a customer's software application under C/C#, MATLAB, LabVIEW, and other programming environments.

The MATLAB SDK provides several powerful programming examples illustrating the use of Gage's CompuScope hardware in different operating modes. These sample programs serve as a starting point for user software that is customized and optimized for a given application.

Gage's 4.0+ MATLAB SDK is completely restructured and modernized software that supports all Gage CompuScope cards.

FEATURES

- Support for all current CompuScope operating modes and combinations of CompuScope hardware
- Full control of configuration settings on all sample programs with ability to enter configuration settings as descriptive strings
- Driver reentrancy, which allows simultaneous operation of CompuScope hardware from different application programs
- Easy querying for feedback on all current CompuScope hardware settings
- All Main M files constructed using CsMl functions – a convenient set of CompuScope MATLAB functions that are used as building blocks.
- Full support for advanced timing features, such as on-board time-stamping, external clocking, 10 MHz reference synchronization
- Transparent support for Master/Slave Multi-Card CompuScope systems
- Plotting M files for displaying different CompuScope data file types
- On-line help available at MATLAB command prompt
- Extra Advanced sample programs for support of on-board CompuScope processing firmware options (eXpert™)

COMPUSCOPE MATLAB SAMPLE M FILES

GageSimple	Verifies correct CompuScope, driver and MATLAB SDK operation
GageAcquire	Provides control of the CompuScope system in simple acquisition mode
GageCoerce	Just like GageAcquire, except that invalid settings are coerced to available values
GageMultipleRecord	Provides control of the CompuScope system in Multiple Record mode
GageDeepAcquisition	Acquires and manages large data acquisitions from Deep Memory CompuScope Hardware (> 16 MB)
GageComplexTrigger	Provides support for complex triggering using multiple on-board CompuScope trigger engines
GageMultipleSystem	Operates multiple independent CompuScope systems, each with their own independent setting controls and output data files
Setup	An M file that assigns values to all configuration setting variables. Used by all acquisition Sample M files.
DisplayData	Displays waveform data from a simple CompuScope acquisition in a MATLAB display window
ReadMrDataFiles	Displays waveform data from a Multiple Record CompuScope acquisition in a MATLAB display window

Gage's 4.0+ MATLAB SDK is completely restructured and modernized software that supports all Gage CompuScope cards. The SDK is designed to exploit Gage's new generation of CompuScope Windows drivers version 4.0+ in the MATLAB 6.5+ programming environment. The CompuScope MATLAB SDK provides several powerful programming examples illustrating use of CompuScope hardware in different operating modes. These sample programs serve as a starting point for user software that is customized and optimized for the application. A comprehensive reference manual is included.

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www.gage-applied.com

ORDERING INFORMATION

Hardware & Upgrades

CompuScope SDK for MATLAB   200-200-102
for Windows

Ask about our SDK Pack for C/C#, MATLAB, and
LabVIEW for CompuScope cards.