

X-Stream Oscilloscope Version 4.3.1 Release Notes

Product	New Feature	Enhancement	Software Correction	Item	Description
All X-Stream Scopes		x		support for IE5	PCIE and LabNotebook reports are now fully functional on scopes running older versions of Internet Explorer.
		x		support for D500PT probe	In addition to other WaveLink probes, the D500PT probe is also recognized by X-Stream scopes.
			x	overlay parameter measurement results	On occasion, parameter results displayed in the table below the grid could appear superimposed on top of one another. This has been corrected.
			x	Pattern selection for qualified triggers	The Pattern menu selection has been restored to the Qualify source menu.
		x		clearing of statistics in Auto trigger mode	When an input signal is discontinued with the scope in Auto trigger mode, then reapplied, statistics will continue to accumulate. Formerly, they would be cleared.
		x		overload condition and loss of data	An overload condition on the external input will no longer stop an acquisition in process. However, the scope will continue to protect its front end by switching coupling to ground.
		x		PNSU remote command	Tolerances for the Panel Setup command have been opened to allow three extra bytes beyond the number stipulated in the header to take line feeds into account.
			x	unintentional reset of waveform averaging	During averaging, it was possible for the sweep counter to be spontaneously reset on occasion. These occurrences have been eliminated.
			x	Pass/Fail actions beyond 35k sweeps	In some cases, Pass/Fail actions (Save, Stop, Alarm, Pulse, Hardcopy) were not being executed beyond ~ 35k sweeps. This has been corrected.
			x	trace labels	Trace labels will attach themselves to their waveforms better now.
			x	using ADJUST knob to position zoom trace	On rare occasions, it was possible to get a fatal error when positioning a zoom trace by means of the front panel ADJUST knob. This has been corrected.
		x		channel setup info in LabNotebook reports	The channel setup configuration is also included in LabNotebook reports now.
			x	trigger level and passive probe on EXT channel	When you connect a passive probe, with 10x attenuation, to the EXT channel, the trigger level will be properly scaled.
		x		redefinition of 0% level	For the Dtime@level parameter, the 0% level is now 0 V and 100% is Min, giving a positive result for fall time.
			x	DA1855A diff amp and bandwidth limiting	When a DA1855A differential amplifier is used, disconnecting and reconnecting the ProBus® interface will no longer reset bandwidth limiting.
			x	DA1855A Autozero function	This function now works correctly.
			x	loss of displayed cursor value digits	The cursor values displayed at the far right-hand edge of the screen could be clipped when timebase and memory were set for a large number of samples. This has been corrected.

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All X-Stream Scopes			x	Coupling after removal of DA1855A diff amp	When the DA1855A differential amplifier is disconnected from the scope, the coupling will no longer remain at 50 ohms. It will return to the default setting.
			x	Width and Width@level parameters	These two parameters now consistently produce the same results when Width@level is defined at 50%.
			x	scaled max. offset for AP03x probes	When these active probes are set to /10 attenuation, the maximum offset will be scaled accordingly.
			x	remote control initialization of DA1855A diff amp	The INIT remote command could sporadically produce error messages, depending on the state of the instrument. These occurrences have been eliminated.
WaveMaster Series SDA DDA WavePro 7000 Series	x			AORM software package	LeCroy is pleased to announce its Advanced Optical Recording Measurements software package for X-Stream scopes. Visit http://www.lecroy.com/tm/Solutions/DataStorage/AORM/default.asp?menuid=31 for more information.
WaveMaster Series WavePro 7000 Series			x	spurious "NCO is Off" errors	At power on, this error message could have been erroneously displayed on occasion. This is no longer the case.
WavePro 7000 Series	x			"A" model scopes	This release supports LeCroy's new line of WavePro 7000A scopes that features increased standard memory and the Windows XP operating system. Also, a number of jitter parameter measurements are now available as standard features on WavePro 7000A series scopes: Duty@level, Edge@level, Freq@level, Period@level, TIE@level, Track, Width@level. Visit http://www.lecroy.com for more information.
			x	TIE@level parameter	This parameter will no longer produce an error message when invoked.
WaveRunner 6000A Series			x	unintentional clearing of histograms	It was possible for an autocalibration to clear histograms. This is no longer the case.
			x	disabling of touch screen	Due to a change in the touch screen revision ID, it was possible that when the TOUCH SCREEN front panel button was pressed to disable that feature, it would actually remain enabled despite LED indication otherwise. This has been corrected.
			x	DA1855A offset	Applying an offset when a DA1855A differential amplifier is connected did not always work correctly. This has been corrected.
			x	incorrect levels for Percent pkpk	When the option to use Percent pkpk is selected for the Rise@level parameter, the correct levels will be displayed.
		x		CANbus TDM/TD option on 2-channel WaveRunner 6000A scopes	The CANbus TDM/TD option can now be connected to the EXT channel of 2-channel WaveRunner 6000A models.

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WaveRunner 6000/A Series			x	slow operation without OIM connected	When the MS-32 option is enabled, the scope will now operate normally whether or not an oscilloscope interface module (OIM) is connected.
WaveSurfer 400 Series	x			new noise filtering capability	Enhanced resolution (ERES) can now be applied to each channel individually in the Vertical Adjust dialog.
WaveSurfer 400 Series		x		Aux Output during calibration	When the Aux Output is set to either Trigger Out or Trigger Enabled , the output will be interrupted during a calibration to prevent misinterpretation of results.
			x	unexpected trigger position shift	A problem whereby a spurious deskew value was being inserted has been corrected.
			x	Rectangle Zoom	When you zoom by touch-and-drag, then select Zoom All Selected from the Rectangle Zoom Wizard, the correct portion of the waveforms will be zoomed.
		x		clock settings	On new WaveSurfer units, once the time zone is set, the system clock will also be set to local time.
			x	software option keys	An inconsistency whereby certain software options failed to become enabled after the option key was entered has been corrected.
			x	Cursor Type front panel button	This button is now fully operable.
			x	autozeroing of CP015 probe	The CP015 current probe now autozeros correctly on WaveSurfer scopes.
		x		left-handed mouse operation and touch-screen function	If you have configured your mouse buttons for left-handed operation, the touch screen is also available.
			x	AP015 probe attenuation	When an AP015 probe is disconnected from the scope, the attenuation displayed will return to 1x.
SDA	x			SDA 11000 scope	LeCroy introduces the world's highest performance serial data analyzer: the SDA 11000. Employing proprietary digital bandwidth interleaving (DBI) technology, the SDA 11000 is capable of 11 GHz bandwidth at 40 GS/s. Visit http://www.lecroy.com for more information.
	x			new parameters for eye diagrams	Additional parameters are available for eye diagrams. Among many others, the list includes Rise, Fall, Overshoot, Crossing Time, Period, Bit rate, and Jitter.
			x	Find Frequency function	This function was sometimes inappropriately applied.
		x		extinction ratio parameter	Extinction ratio calculations are now made about the nominal "1" and nominal "0" levels for more repeatable results.
		x		max. coefficients for SSCTrack function	For spread spectrum clock tracking, the default maximum number of coefficients is based on bandwidth.
			x	undisplayed ISI plots	On occasion, if multiple ISI plots were added to the list of plots for display, then the Clear All button was pressed, some plots then might not be redisplayed after being entered into the list again. This has been corrected.

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SDA			x	missed mask failures	Under certain rare conditions, it was possible for mask failures to go undetected. All failures are now detected.
			x	incorrect Rj and Dj results	A phase error was producing incorrect results. This is no longer the case.
			x	vertical scaling of F7	When F7 was set up using the Jitter Wizard, vertical scaling could have been incorrect. Now an acquisition is made, then propagated to F7, to preclude this possibility.
			x	setting testing standard in Jitter Wizard	On occasion, setting a testing standard by means of the Jitter Wizard, would produce "Custom" in the dialog regardless. This has been corrected.
		x		new masks for PCIe	We have added transmitter and receiver (measured at package pins) masks for 1.0a and; and all PCIe 1.1 masks.
			x	Jitter setup wizard	Button selections offered by the Jitter Wizard are now consistent with installed options.
MS-32			x	saving/recalling digital traces	Digital traces will now be stored in the proper file format.
			x	fatal error message	A fatal error message that could be emitted when the oscilloscope interface module (OIM) is disconnected will no longer occur.
			x	hot-swappable Digital Logic Pod	You can now connect the Digital Logic Pod into a USB port without shutting off power to the scope.
		x		MS-32 running with CANbus TDM/TD	These two options can now operate together on the same scope.
			x	incomplete digital trace	In cases where the number or digital points is small, it was possible for digital trace displays to appear incomplete. This has been corrected.
			x	ASCII file format	The choice of ASCII format has been dimmed in the Save Waveform dialog, since it is currently unsupported.
SDA DDA JTA2			x	Track setup dialog tabs	The occasional disappearance and reappearance of the Track and Zoom setup dialog tabs has been corrected.
ASDA	x			CustomDSO	CustomDSO is now included in ASDA.
AORM			x	clock period calculation	The Advanced Optical Recording Measurement software package now correctly determines the clock period for the standard being tested to.
CANbus TDM/TD			x	DLC triggers	Triggers set by data length code (DLC) will now trigger only under the corresponding conditions.
			x	triggers on 1-byte messages	Depending on the Start Bit and # Data Bits settings, it was possible to get triggers on messages longer than 1 byte (when Data Value = 0) by setting Start Bit to 8. This has been corrected.
			x	sequence timestamps	Sequence timestamps will now be consistently shown when CAN traces are displayed.
			x	CAN2Value parameter	This parameter now consistently outputs an array of values. Also, the horizontal unit of measure has been corrected.

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CANbus TDM/TD			x	CAN2CAN parameter	When ID=400 and this parameter is measuring to the next ID=400, a non-zero value will be consistently reported.
			x	misapplied error messages	Spurious error messages that could be emitted on shutdown will no longer occur.
		x		MS-32 running with CANbus TDM/TD	These two options can now operate together on the same scope.
ENET			x	EDCD measurements	Duty cycle distortion measurements could produce erroneous results depending on the number of samples taken per acquisition and the level at which it is measured. This has been corrected.
			x	10Base-T tests	These masks have been redrawn to preclude gaps that could be introduced by the ENET application.
USB2			x	EL_38 HS test limits	The limits for this test were corrected to "3.0 to 3.125 ms."
		x		Host SOF EOP width	The limits for this test were modified, and the measurement is now divided by 2.08 ns.
		x		Suspend-Resume EL_40 test	The methodology of this test has been improved to eliminate false failures.
			x	clarification of instructions	The on-screen instructions for the Device HS Packet Param test incorrectly said to Autozero the probe after connection to the signal. This has been corrected.
	x			MATLAB runtime script	With this release, the USB2 software option utilizes a MATLAB runtime script instead of the MATLAB full software version. All USB2 customers will be notified of this USB upgrade notice by June 6th, with instructions on how to either install the new application from a supplied upgrade CD, or how to access and download the installation files from a LeCroy ftp server.
Electrical Telecom		x		STM-1E and E-4 masks	These masks have been redrawn to comply better with the standards.
		x		CUSTOM_APPLICATION remote command	The CUAP command is no longer used to turn mask testing on and off. MT_SELECT_TEST is used instead.