X-Stream DSO Version 4.1.0 Release Notes

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
All X-Stream DSOs			×	missing text from strip chart	Screen dumps to a strip chart recorder could be missing a line of text. This is no longer the case.
			×	Mag Squared FFT output type	The output was being underdriven when Mag Squared output type was chosen. This has been corrected.
			×	derivative of integral function	It was possible to get a blank result when performing a derivative of an integral as two discrete steps: This has been corrected.
			×	loading of 93xx model waveforms into X-Stream scopes	This operation can now be performed without impediment.
			×	misalignment of parameter statistic	The mean value of the Frequency parameter was shifted one character to the left in the parameter table below the grid. It has been realigned.
		×		number separators (comma vs. period)	The use of local number formats is now supported for all locales.
		×		DA1855A diff amp offset	The responsiveness of the DA1855A offset control has been improved.
			×	SRQ not de-asserted in LabView	Timeouts related to service requests not being de-asserted have been eliminated.
			×	histogram units	Occasionally a blank menu selection would appear, in place of **Hz**, in the “X-axis” field of the Cursors Setup dialog. Now both **s** and **Hz** appear, when appropriate.
		×		file management confirmation message	When you save or delete a file, or create or delete a folder, a confirmation message indicating the filename and path will appear in the message line at the bottom of the screen.

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X-Stream DSO Version 4.1.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
All X-Stream DSOs			×	truncated cursor value	When six traces are displayed, descriptor labels are reduced in width, and it was possible for cursor values to be truncated. Now the numeral portion of the value will be preserved and the units will be abbreviated when necessary.
			×	Find Absolute Level feature	This feature now correctly displays the new found level.
WaveRunner 6000 Series			×	missing waveforms in printouts	Screen dumps to the internal printer could be missing waveforms. This has been corrected.
			×	loss of data bits with rescaling	When a waveform is rescaled, a loss of resolution was possible, depending on the Max Sample Points setting. This has been corrected.
WaveMaster SDA DDA5005	×			optimizing for high frequency	An **Optimize For High Frequency** checkbox has been added to the Trigger setup dialog to enable high or low frequency rejection of input waveforms: Checked by default, the cutoff frequency at which the box should be unchecked is 10 MHz.
		×		deskewing of differential probes	A new manual control was added to enable you to deskew non-ProLink differential probes, using the TF-DSQ fixture.
WaveMaster 8620A SDA 6020			×	external clock	Distorted waveforms caused by using an external sampling clock input have been eliminated.
WaveMaster SDA DDA5005			×	auto-zeroing of D600-AT probe	When the D600-AT probe was auto-zeroed, it was possible for the trigger mode to switch to STOP. This is no longer the case.
WaveRunner 6000 Series WaveSurfer 400 Series	×			MS-32 option	LeCroy is pleased to announce our new MS-32 mixed signal option. This option, with a capacity of 4 analog channels and 32 digital channels, allows easy and affordable testing of embedded controllers. Visit www.lecroy.com for more information.

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X-Stream DSO Version 4.1.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
WaveMaster *WaveRunner 6000 Series* *WavePro 7000 Series*	×			CANbus TDM option	LeCroy is pleased to also announce our new CAN bus trigger, decode, and measurement option. CANbus TDM contains specific CAN measurement parameters that allow you to quickly and easily accumulate statistical information on a wide variety of events. Visit www.lecroy.com for more information.
SDA		×		mask database and bit rate control	Restrictions on the upper limit of the bit rate have been lifted to enable Fibrechannel Rev 4 masks and FC4250 mask testing.
			×	ConvDj parameter	This parameter will now be consistently overwritten when another parameter is selected in its place.
			×	High Freq Cutoff error message	An incorrectly worded error message concerning sample rate vs. high frequency cutoff could be issued on occasion. The message has been made more precise.
			×	N Failures feature	This feature will now be automatically enabled when Testing is turned on. Previously it was tied to the Show Location checkbox.
		×		PCI-E compliance testing	If an incorrect signal was given to the compliance test, it could take several minutes to get a result. The input signal is now checked first and, if incorrect, reported to the operator.
		×		“Repeating pattern not found” advisory	If **Synch N Cycle** is selected for “DDj Calc Method,” but no pattern is found, an advisory will be issued in the message line at the bottom of the screen.
		×		mask test processing speed	The processing speed of mask testing has been improved when two channels are used.
		×		new masks	Additional masks have been added.
		×		updated Fibrechannel masks	Fibrechannel masks have been updated to the 2002 level.

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X-Stream DSO Version 4.1.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
SDA 6000 *SDA 6020*	×			Serial ATA support	With this release LeCroy proudly introduces its SDA-SATA software option. SDA-SATA is designed to capture, analyze, and report measurements in conformance to Serial ATA II electrical specification standards. Visit www.lecroy.com for more information.
ASDA	×			$^1/_2$ UI jitter tracking	LeCroy has greatly improved the TIE measurement's ability to track signals with large modulation. We have also added the capability to emulate either a loop that can track beyond ±0.5 UI phase error or a loop with a phase comparator that rolls over at ±0.5 UI (i.e., a normal analog PLL). These changes apply to all PLL types.
JTA2			×	Auto Find Scale feature	This feature now operates correctly on period jitter tracks.
USB2			×	50 MHz probe calibration	A 50 MHz probe calibration feature had been mistakenly added to the USB2 software package. It has been removed.
			×	incorrect pass/fail settings	Pass/fail settings for USB2 inter-packet delays have been corrected.
		×		auto-incremented file name	The file name for the results will be incremented at the end of each run automatically.
			×	Host Chirp response time	This test incorrectly measured the chirp response time. This has been corrected.
SDM			×	memory leak	A memory leak, giving rise to an “insufficient virtual memory” warning, has been eliminated.

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X-Stream DSO Version 4.1.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
ENET			×	Clear Sweeps with test mode change	A Clear Sweeps operation was being performed with each change in test mode. Clear Sweeps will now only occur when **Set Up and Start Test** is selected.
			×	incorrect pass/fail sweep count	On occasion, a “Passed --- of --- sweeps” message could be displayed despite valid results. This has been corrected.
			×	100Base-T levels	On a noisy signal, histogram peaks could be evaluated incorrectly. This has been corrected.
		×		10Base-T testing	Immunity to high-frequency noise has been improved.
		×		DOV mask testing	For 10Base-T testing, the cutoff frequency of the filter has been decreased to 200 MHz to prevent false failures.
CANbus TD			×	ACK pulse	Selecting the ACK checkbox in the CAN Trigger dialog, then unchecking it again, will no longer cause the ACK pulse to disappear.
			×	bit rate units	The Bitrate field in the CAN Trigger dialog now correctly interprets values as kb/s.
			×	CAN Zoom control	CAN Zoom traces can now be consistently controlled using the front panel Zoom knobs.
			×	loss of CAN Trigger tab	Using shortcut buttons in the CAN Trigger and CAN Analysis dialogs repeatedly no longer causes loss of CAN Trigger Tab.
			×	loss of CAN Decode display	Changing the horizontal position of a waveform will no longer cause the decoded trace information to disappear.
		×		7131 hardware support	CANbus TD now supports 7131 hardware from Vector.
			×	decoding of error messages	Error messages will be consistently decoded, regardless of error conditions among them.
			×	Frame Type operation	When **Data** is selected from the Frame Type menu, the scope will trigger on only that frame type. Formerly, it could trigger on **Remote** as well.

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X-Stream DSO Version 4.1.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
CANbus TD			×	time per division and ID display	As you increase the time per division, ID numbers will continue to be displayed, even with overlap of text. Previously, ID numbers would appear only when there was sufficient spacing between pulses to prevent overlap.
			×	erroneous error frames	Error frames generated by attempts to decode noise have been eliminated.
			×	disappearing IDs	When a CAN error frame is decoded, other IDs will continue to be displayed.
		×		zeroing of deskew	When the Oscilloscope Interface Module (OIM) is disconnected from a channel, the deskew will automatically revert to zero.
			×	DLC triggering	Triggering will now only occur with respect to the data length code setting. Also, triggering will not occur outside of the message; i.e., S**tart Bit** and # **Data Bits** settings are enforced.
			×	timestamps	Sequence mode timestamps are now consistently displayed, even when CANbus TD is active.

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