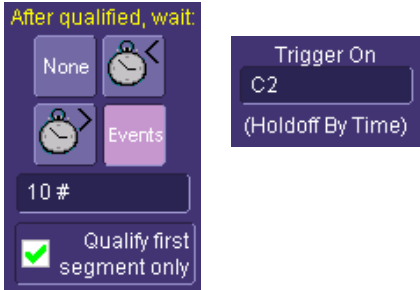
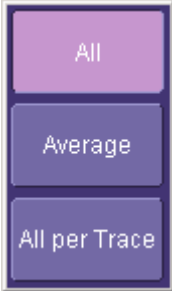


Note: Load version 3.3.1.0 on WaveRunner 6000 Series scopes only. Load version 3.3.0.8 on all other X-Stream scopes.

X-Stream™ DSO Version 3.3 Release Notes

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
	x			WaveLink probe support	This release includes support for LeCroy's WaveLink line of high-bandwidth probes. These versatile probes with adjustable tips and channel color LED coding can be used in single-ended or differential mode. Visit www.lecroy.com for more information about these probes.
WaveMaster WavePro 7000 Series WaveRunner 6000 Series DDA SDA		x		Qualified Trigger holdoff	<p>In Sequence mode, you can now specify the holdoff in time or events for Qualified Trigger. When the Qualify first segment only checkbox is checked, a line of text appears under the "Trigger On" field alerting you to the Holdoff type selected for the trigger source.</p> 
		x		averaging of trends	 <p>When using a parameter measurement that generates multiple values, you can now use the Trend function to show a trend of All values, an Average of the values, or All Per Trace (i.e., clear the trend after each acquisition).</p>
		x		Autosetup on low-frequency signals	The Autosetup frequency range has been widened to function on signals down to approximately 25 Hz.

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X-Stream™ DSO Version 3.3 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION	
WaveMaster WavePro 7000 Series WaveRunner 6000 Series DDA SDA		x		passive probe coupling	When you are using a passive probe, you can now select 50 ohm coupling.	
		x		improved remote control response	The remote control performance, particularly when reading short waveforms, has been improved.	
		x		pass/fail limits	Pass/fail limits can now be set with finer resolution.	
		x		relabeling of parameters	Using Automation, you can now relabel parameters on-screen.	
		x		time/div range	The time/division range has been extended to 1000 s/div in Normal and Single-shot trigger modes.	
		x		N-width parameter	A parameter has been added to measure the width of negative pulses.	
			x		multizooms in track mode	Zooms will now consistently track together in multizoom mode when enabled to do so.
			x		Autozero of DA1855 channel 2	Performing an Autozero of channel 2 on the DA1855 will no longer reset the history on channel 1.
			x		Web Edit feature	In Web Edit mode, it was possible for processors connected to inputs, but not outputs, to be erroneously computed. This was experienced as slower performance on WaveRunner 6000 series scopes.
			x		Multizoom locking of traces	Occasionally, traces would not be locked properly when Multizoom was enabled. This problem has been corrected.
			x		DCL remote command	Occasionally, if a device clear command was sent to the scope prior to the completion of a waveform or panel setup transfer, the remote port could hang. This problem has been corrected.
		x		sorting of saved waveform files	Saved waveform files are now correctly sorted by date.	

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X-Stream™ DSO Version 3.3 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
<i>WaveMaster</i>			×	DEFINE command	The inconsistency between send and query formats for the DEFINE command has been eliminated.
<i>WavePro 7000 Series</i>			×	units in trace descriptor labels	When trace descriptor labels appear in their reduced size, unit abbreviations will appear correctly formatted.
<i>WaveRunner 6000 Series</i>			×	pulse width trigger	The problem whereby the scope would incorrectly trigger on pulse widths around 10 ns has been corrected.
<i>DDA</i> <i>SDA</i>			×	custom parameter scripts	The functioning of the CLEAR SWEEPS button when the scope is running custom parameter scripts has been corrected.
<i>WaveMaster</i>			×	FPGA upgrades	During software downloads, on occasion the FPGA upgrade would fail. This problem has been eliminated.
<i>SDA</i>		×		jitter filter function	For filtered jitter, you can now extend the range to permit 5 kHz to 4 MHz signals, and to use low-pass or band-pass filtering automatically.
		×		externally recovered clock	The PLL can now operate with an external (non-data source) recovered clock. This is particularly useful for DVI and HDMI testing.
		×		O.172 testing	The filtered jitter function has been enhanced to allow O.172 testing. Both the lower limit of the filter's range and the PLL bandwidth have been extended.
			×	mask test failure markers	Clicking the mouse over the failure markers will no longer erase the red circles.
			×	transient warning message	Changing from SDA mode to Scope mode could occasionally cause an erroneous transient warning message. This problem has been eliminated.

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X-Stream™ DSO Version 3.3 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
SDA			x	mask type in Custom mode	The correct mask type will consistently be displayed when you switch to Custom mode from another test mode.
			x	erased ISI plots	The occasional problem of ISI plots disappearing from the scope display when the "Individual Patterns" checkbox was checked or unchecked has been eliminated.
			x	extinction ratio measurement	You can now make extinction ratio measurements on signals having a high value of ER. Dark Cal signals that were below the noise level of the instrument can now be measured.
SDA SDM		x		mask testing	Mask testing has been extended to operate on signals down to 100 kHz. The lower limit had been 50 MHz.
DDA DDM			x	lbsep parameter	Instances of local base separation being incorrectly calculated have been eliminated.
DDA XDEV XMAP		x		fast wave port	Custom math functions can now be implemented in C or C++ using FastWavePort.
ENET		x		Mode 1 averaging	You can now set up averaging, with weighting, for Gigabit Ethernet Mode 1 mask testing.
DFP2		x		improved low-pass filter	The performance of the low-pass filter when it is greatly oversampled has been improved.
ET-PMT			x	continued computation after exit	Pass/fail testing remained enabled after ET-PMT was turned off. This problem has been eliminated.

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