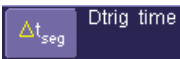


Applicability Note:

For WaveMaster DSOs, software version 2.8.0 contains the features, enhancements, and corrections included in version 2.6.0. Refer to *X-Stream DSO Version 2.6.0 Release Notes* posted at www.lecroy.com.

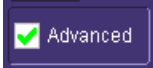
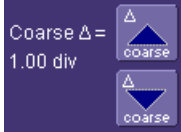



For other X-Stream DSO models, you should have version 2.6.0 already loaded on your scope prior to loading 2.8.0.

X-Stream DSO Version 2.8.0 Release Notes

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
WaveMaster WavePro 7000 Series DDA-5005A SDA	x			USB 2.0 testing	This release contains support for the USB2 option, which enables compliance testing of USB 2.0 hubs, hosts, and devices.
	x			PowerMeasure testing	This release contains support for the PMA2 PowerMeasure option, which enables extensive Power Device analysis, Modulation analysis, and Line Power analysis.
	x			Ethernet testing	This release contains support for the Ethernet testing option, which enables 100Base-TX and 1000Base-T testing.
	x			time between acquisitions parameter 	A new parameter has been created to measure the time between triggers, when the scope is operating in sequence mode. You can use this feature to histogram or trend the time between events.
		x		MATLAB math and parameter limits	There is no longer a 1 Mpt limit to the number of values that can be sent to MATLAB when you are running MATLAB scripts. The actual number of points you can process will be limited by the available memory in the scope.


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X-Stream DSO Version 2.8.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
<i>WaveMaster</i> <i>WavePro</i> <i>7000 Series</i> <i>DDA-5005A</i> <i>SDA</i>		x		granularity of coarse adjust knob	<p>You now have the capability to set the granularity of the coarse adjustment by means of the pop-up numeric keypad that appears whenever you touch inside any numeric data entry field.</p> <p>At the bottom of the keypad is an Advanced checkbox: . Checking this box enables the Coarse Δ adjustment:</p> 
		x		AP015 probe warning messages	<p>In the case of an unlocked probe jaw or overheat condition, a warning message will be issued in the status line at the bottom of the display.</p>
		x		track of parameters	<p>When Track  is selected for any custom parameter, tracking will continue to be displayed, even after Measure is turned off.</p>
		x		draggable trigger level marker	<p>You can now set the trigger level by clicking and dragging the level marker at the right of the grid: . The corresponding voltage will be updated dynamically in the Level field of the "Trigger" setup dialog: .</p>

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X-Stream DSO Version 2.8.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
<i>WaveMaster</i> <i>WavePro 7000 Series</i> <i>DDA-5005A SDA</i>	x			subformat of waveforms saved in binary format	<p>When saving waveforms in binary format, you now have the option to select a particular subformat:</p>  <ul style="list-style-type: none"> • Byte ensures the smallest file size by truncating data to 8 bits. • Word saves the data as 16-bit data. • Auto saves that data as byte or word, depending on the processing performed on it, if any.
			x	DA1855 zero offset	The Zero Offset control in the DA1855 dialog now consistently zeros the offset when selected.
			x	VBScript did not compute on some math functions	VBScript now computes on all math functions (e.g., ERES).
			x	incorrect scaling for O/E converters	Scaling has been corrected to V/mW from V/W.
			x	imprecise warning when hard copy generated.	The warning message "trailing number(s) were truncated to allow auto-numbering" was corrected to "trailing number(s) in the filename were truncated to allow auto-numbering."
			x	unreported nbpw parameter errors	The narrowband power parameter now reports overflow and underflow errors.
<i>WavePro 7000 Series</i>			x	coupling and volts/div	You can now set the sensitivity to 2 V/div regardless of coupling. Formerly, you first had to change the coupling from AC to DC and back again.

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X-Stream DSO Version 2.8.0 Release Notes (Continued)

	New Feature	Enhancement	Software Correction	ITEM	DESCRIPTION
SDA		x		Clock analysis mode	A Clock button has been added to the SDA mode selection so that clock analysis can be set up much easier. This mode of operation produces a bathtub curve, TIE histogram, and key clock parameter measurements Tj, Rj, and Dj automatically.
		x		Eye mode warning message	In the case of too low amplitude, the SDA will issue a warning message in the status line at the bottom of the display.
		x		jitter parameters	<p>This revision represents a major change in how random (Rj) and deterministic (Dj) jitter are measured. The SDA now computes Rj and Dj using two methods. The original SDA Rj and Dj have been renamed Rje and Dje (e=effective), and two new parameters (Rj and Dj) have been defined. The new Dj is computed by taking the sum $Dj = DDj + Pj$, and Rj becomes:</p> $Rj = \frac{Tj(BER) - Dj}{\Psi(BER)}$ <p>The new definition of Dj allows you to view the jitter breakdown both in terms of how a TIA (Timing Interval Analyzer) would measure them (Rj and Dj) and how a bit error rate test set would measure them (Rje and Dje).</p>
			x	dark calibration	The dark calibration is now consistently applied to the extinction ratio.
			x	vertical autofit in Absolute mode	The vertical autofit feature is now correctly applied to the mask when operating in Absolute mode.

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