
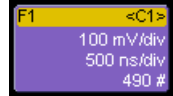


## X-Stream DSO Version 2.9.1 Release Notes

|  | New Feature | Enhancement | Software Correction | ITEM                                | DESCRIPTION   |
|--|-------------|-------------|---------------------|-------------------------------------|---|
| WaveMaster<br><br>WavePro<br>7000 Series<br><br>DDA-5005A<br><br>SDA | x           |             |                     | new scope models                    | This release contains support for LeCroy's new WavePro 7200, DDA-3000, WaveMaster 8620A, and SDA 6020. Visit <a href="http://www.lecroy.com">www.lecroy.com</a> to learn more about these new scopes.   |
|  | x           |             |                     | pass/fail testing                   | When performing pass/fail testing, you now have the ability to create a mask based on your waveform plus a user-defined tolerance.<br><br>   |
|  |             | x           |                     | Japanese on-line Help               | A Japanese version of on-line Help is now available on all X-Stream scopes. This version of Help is accessed from the main Help window.   |
|  |             |             | x                   | number of sweeps display            | For functions that accumulate results over multiple acquisitions (e.g., averaging, histograms, etc.), the number of sweeps will now be shown in the bottom line of the descriptor label.<br><br> |
|  |             | x           |                     | FFT span information                | For the FFT math function, information related to the FFT span has been clarified.  |
|  |             | x           |                     | zoom controls                       | The association between front panel zoom controls and the selected trace has been improved.   |
|  |             | x           |                     | Trigger setup dialog                | The functionality of the Trigger dialog has been greatly enhanced by such improvements as giving you the ability to change the level and coupling for Dropout trigger within this same dialog.  |
|  |             | x           |                     | "find scale" feature for histograms | The functioning of this feature for histograms has been speeded up.   |
|  |             |             |                     | x                                   | parameters calculated on PerTrace data  |

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## X-Stream DSO Version 2.9.1 Release Notes (Continued)

|   | New Feature | Enhancement | Software Correction | ITEM  | DESCRIPTION   |
|---|-------------|-------------|---------------------|---|---|
| <i>WaveMaster</i><br><br><i>WavePro</i><br><i>7000 Series</i><br><br><i>DDA-5005A</i><br><br><i>SDA</i> |             |             | x                   | SEQUENCE command and memory length  | The SEQUENCE command will no longer ignore the memory length that you set. Instead, it will set the memory mode to SMART Memory, then set the memory length.  |
|   |             |             | x                   | PNSU? query   | The Panel Setup query now pre-pends the header file, allowing you to use the panel file as a command.   |
|   |             |             | x                   | *RST command  | When this command is issued, the scope will now be put directly into Stop mode. Formerly, the scope would first be put into Auto trigger mode.  |
|   |             | x           |                     | MSG command   | When this command is issued, the text string will now remain displayed until another MSG command replaces it, or until the scope is taken out of remote control mode. The message used to persist for only a few seconds. |
|   |             |             | x                   | Clear Sweeps behavior   | Inconsistent behavior of the Clear Sweeps function has been corrected.  |
|   |             | x           |                     | Use Print Colors checkbox   | The setting of this checkbox will now be retained between power-ups of the scope.   |
|   |             |             | x                   | histogram overflow condition  | There will no longer be an overflow condition when data is accumulated over a period of several days.   |
|   |             |             | x                   | PAVA? query and sequence waveform   | The problem of the PAVA? query returning the value for segment 3 when applied to a sequence waveform has been corrected.  |
|   |             |             | x                   | Measure Gate and Mathcad parameter  | The problem of the "Measure Gate" dialog disappearing when the <b>Advanced</b> checkbox was checked has been corrected.   |
|   |             |             | x                   | Rescale function multiplier   | The <b>First multiply by</b> field in the "Rescale" math function dialog has been expanded to display exponents greater than 1000.  |
|   |             | x           | 1/delta-x cursor    | The occasional occurrence of this cursor extending beyond the display boundary has been eliminated. |   |

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## X-Stream DSO Version 2.9.1 Release Notes (Continued)

|   | New Feature | Enhancement | Software Correction            | ITEM   | DESCRIPTION  |
|---|-------------|-------------|--------------------------------|--|--|
| <i>WaveMaster</i><br><i>WavePro</i><br><i>7000 Series</i><br><i>DDA-5005A</i><br><i>SDA</i> |             | x           |                                | asynchronous serial poll   | An asynchronous serial poll has been added for use when you are controlling the scope over the Ethernet.   |
|   |             |             | x                              | Find Scale and trigger delay                                     | Touching the <b>Find Scale</b> button in the channel setup dialog incorrectly reset the trigger delay. This occurrence has been eliminated.                            |
|   |             |             | x                              | Multizoom out of sync  | The Multizoom feature could get out of sync when one of the functions was dependent on a memory trace.   |
|   |             |             | x                              | hardcopy feedback message  | Occasionally when hardcopy images were output, an inapplicable message concerning autonumbering of file names was issued.  |
|   |             |             | x                              | trigger position and memory traces                               | When adjusting the trigger position for memory traces by means of the Wavepilot front panel knobs, it was possible for the trigger to get out of sync.                 |
|   |             | x           |                                | file name path recall  | In addition to the file name, the scope now also remembers the path to the file after a reboot.  |
|   |             | x           |                                | front panel knobs and screen saver                               | In addition to inputs from the touch screen, mouse, and keyboard, inputs from front panel buttons and knobs will also take the scope display out of screen saver mode. |
|   |             |             | x                              | PACU command   | When operating the scope in remote mode, it is no longer necessary to turn on mymeasure (custom parameters) before sending the PACU command.                           |
|   |             |             | x                              | rescaling of Track function                                      | The Track math function now consistently rescales correctly.   |
|   |             |             | x                              | missing points in waveform display                               | Occasionally with dot-join off and long memory, some points would not be displayed. This has been corrected.   |
|   | x           |             | saving files to root directory | You can now save files to the root directory of a network drive. |  |

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## X-Stream DSO Version 2.9.1 Release Notes (Continued)

|  | New Feature | Enhancement | Software Correction | ITEM  | DESCRIPTION   |
|--|-------------|-------------|---------------------|---|---|
| <i>WaveMaster</i>                                    |             |             | x                   | DA1855 max. voltage   | The maximum volts/division possible was corrected to 100 V/Div.   |
| <i>WavePro<br/>7000 Series<br/>DDA-5005A<br/>SDA</i> |             | x           |                     | responsiveness of acquisition controls                        | The scope now responds much more quickly to changes that you make to acquisition controls.  |
| <i>WaveMaster<br/>DDA-5005A<br/>SDA</i>              |             |             | x                   | non-recognition of AP1M adapter                               | Occasionally the scope would not recognize an AP1M Hi-Z probe adapter when used with a PP005 probe. This occurrence has been eliminated.          |
|  |             |             | x                   | Aux In amplitude and AP1M                                     | The Aux In amplitude is now correct when used with an AP1M Hi-Z adapter.  |
| <i>DDA-5005A</i>                                     |             | x           |                     | max. number of gates to be skipped                            | In the "Disk Triggers" dialog for Servo Gate, you can now set a maximum of 999 gates to be skipped between triggers. Formerly the maximum was 10. |
|  |             | x           |                     | Sequence Builder  | A Sequence Builder processing function has been added to the DDA.   |
|  |             | x           |                     | DD_HEADSIGNAL_CHANNEL and DD_READGATE_CHANNEL remote commands | These commands will now accept non-X-Stream math function designators TA, TB, TC, and TD as possible arguments.                                   |
| <i>SDA 6000<br/>WaveMaster<br/>8600</i>              |             |             | x                   | bandwidth limiting with AP1M adapter                          | The bandwidth limiting message that appears when you insert an AP1M Hi-Z adapter has been corrected.  |
|  |             |             | x                   | low bandwidth in RIS mode                                     | In RIS mode, the bandwidth was artificially low. This has been corrected.   |

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## X-Stream DSO Version 2.9.1 Release Notes (Continued)

|     | New Feature | Enhancement | Software Correction | ITEM                                   | DESCRIPTION   |
|-----|-------------|-------------|---------------------|--|---|
| SDA |             | x           |                     | Pj parameter in Clock mode             | The parameter Pj has been added to the list of standard parameters that are displayed when you select <b>Clock</b> from the Serial Data Analysis dialog.  |
|     |             | x           |                     | error checking of mask database editor | You will now receive error messages if you attempt to enter incorrect values for a normalized mask. Guides have also been added to the editor dialog box, explaining what the limits are.                 |
|     |             |             | x                   | BER errors                             | The SDA now reports One and Zero BER errors in the parameter measurements below the grid.   |
|     |             |             | x                   | ISI pattern limit                      | Once the total number of allowed ISI traces is reached, the <b>Add</b> button will be visibly disabled.   |
|     |             |             | x                   | eye crossing for asymmetrical signals  | The eye crossing algorithm has been changed to compute left and right limits separately.  |
|     |             |             | x                   | incorrect BER result                   | Occasionally the BER measurement would report a result of zero, when one False 1 had actually been located. This no longer occurs.  |
|     |             |             | x                   | even number of bits in locator         | This feature incorrectly allowed you to enter an even number in the <b>Bits in Locator</b> field. Now it prevents you from doing so by setting the default value to 1 and the granularity to 2.           |
|     |             |             | x                   | Clear Sweeps in Eye mode               | Pressing Clear Sweeps on the front panel cleared the sweeps accumulated for parameter measurements, but did not always clear them from the eye diagram. Now it consistently clears sweeps in both places. |
|     |             |             | x                   | BER frame size units                   | The <b>Frame size</b> field in the BER dialog incorrectly displayed units of "UI." It now displays "Bytes."   |
|     |             | x           | Dj in Clock mode    | Dj is now computed in Clock mode.      |   |
| SDM |             |             | x                   | View User Signal control               | This control was being inadvertently displayed in the Serial Data Management option UI.   |

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## X-Stream DSO Version 2.9.1 Release Notes (Continued)

|                        | New Feature | Enhancement | Software Correction | ITEM  | DESCRIPTION  |
|------------------------|-------------|-------------|---------------------|---|--|
| <i>SDA<br/>SDM</i>     |             |             | x                   | Avg power parameter and slice width                 | A change in slice width will now be reflected in the average power parameter, as in ER and eyeBER parameters.  |
|                        |             |             | x                   | calculation of eye width                            | Calculating the eye width on a signal with almost no eye height could cause the scope to hang. This has been corrected.  |
| <i>ENET</i>            |             | x           |                     | default trigger setup for 100Base-T testing         | The default trigger setup has been upgraded to Edge with a level of 500 mV, Level at 500 mV/Div, and a Timebase delay at -31.72 ns. In addition, the Glitch and Width trigger icons have been made more intuitive. |
|                        |             |             | x                   | DOV parameter and jitter measurements for 100Base-T | Differential output voltage and jitter measurements are now consistently correct.  |
|                        |             |             | x                   | 1000Base-T mask alignment                           | Occasional problem of automatic mask alignment for 1000Base-T signals has been corrected.  |
|                        |             | x           |                     | setup for gigabit Ethernet tests                    | Setup conditions for gigabit Ethernet tests have been greatly improved.  |
| <i>SDA<br/>DFP2</i>    |             | x           |                     | Jitter filter error messages                        | For JitterFilter, FIR, or IIR filter functions, expanded diagnostic messages now indicate when the filter is improperly configured.  |
| <i>USB2</i>            |             | x           |                     | FS/LS upstream/downstream signal quality tests      | The USB2 option now supports full-speed/low-speed upstream signal quality tests for Device testing, and full-speed/low-speed downstream signal quality tests for Host and Hub testing.                             |
|                        |             |             | x                   | waveform files                                      | USB result waveform files are now saved even if a directory does not already exist.  |
|                        |             |             | x                   | HS FE pass condition                                | The pass condition in Step 3 of the high-speed far end signal quality test has been corrected.   |
| <i>PMA2</i>            |             |             | x                   | probe recognition at bootup                         | Probes will now be recognized and correctly displayed in the PMA2 dialogs when the probes are connected prior to bootup.   |
| <i>OE4xx<br/>OE5xx</i> |             |             | x                   | scaling factors                                     | The gain constant for optical-to-electrical converters is now correctly displayed.   |