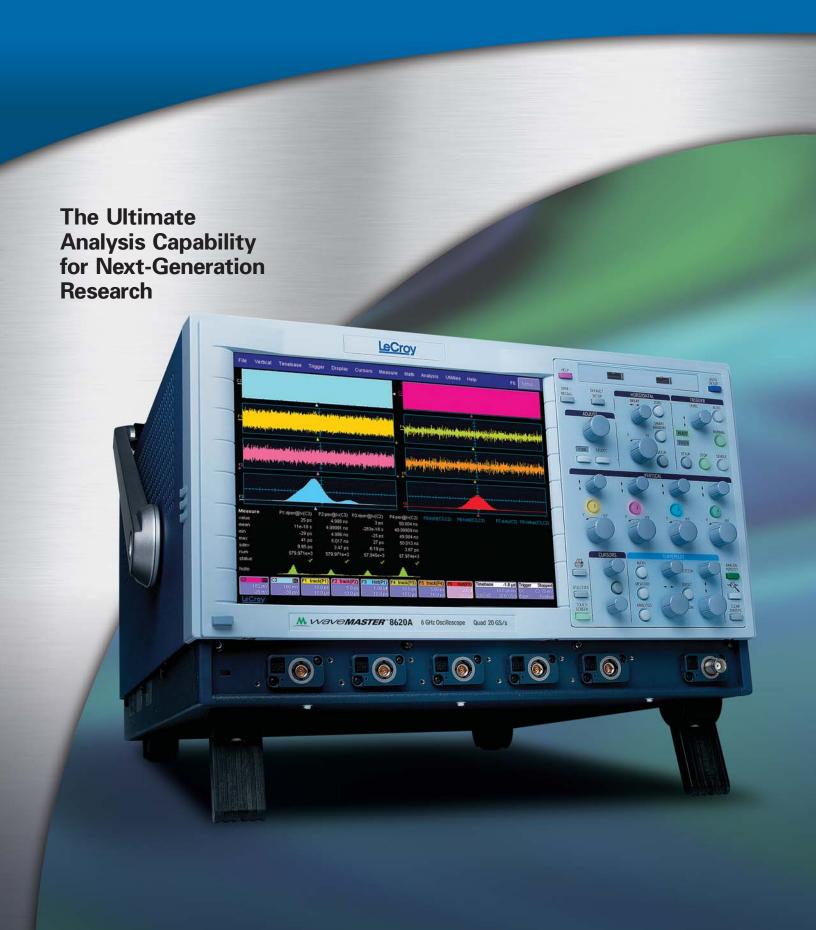
LeCroy

WAVEMASTER® 8000A SERIES



It's All About Performance

The LeCroy WaveMaster 8000A Series oscilloscope offers a unique combination of high bandwidth, fast sampling speeds, and long memory capture, ideal for digital and communications systems. Equipped with our patented X-Stream technology, its fast data transfer and processing system deliver unprecedented measurement capabilities, at speeds 10–100 times faster than conventional oscilloscopes. Providing true WaveShape Analysis, its high-performance capabilities are changing the way engineers think about design and testing.

Features:

- High bandwidth from 4 GHz to 6 GHz
- Fast sampling speeds—to 20 GS/s on 4 channels
- Full sampling speed maintained over entire memory length
- Standard memory 10 Mpts/Ch
- High signal integrity with an SiGe amplifier, ADC, and trigger circuit
- Intuitive GUI for easier WaveShape Analysis
- 10–100 times faster processing speeds
- A wide array of standard math tools
- Optional math and measurement packages

Measurement Accuracy

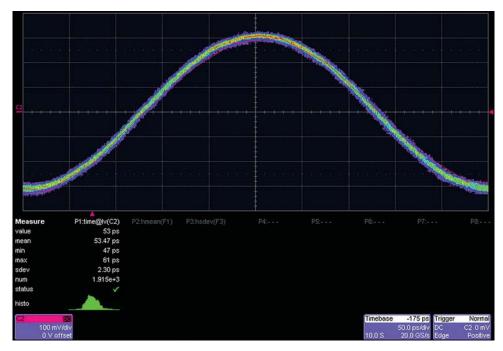
Superior timebase performance and very low jitter noise floor make WaveMaster a truly remarkable instrument. Delivering extremely stable and precise measurements, its high level of accuracy includes:

- 1 ps rms jitter noise floor
- Timebase stability of ±1 ppm aging < 1 ppm/year clock accuracy
- Low trigger jitter < 2.5 ps
- Rise time as fast as 75 ps captures fast signal edges



Exceptional Trigger Performance

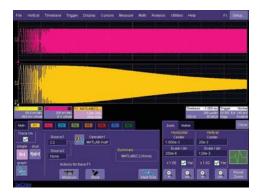
WaveMaster offers a comprehensive array of triggers for maximum performance. The SiGe trigger circuit offers a 5 GHz edge trigger bandwidth for capturing fast signals with superior sensitivity. The versatile SMART Trigger™ captures a variety of signals, including glitches and pulse widths down to 600 ps. The logic trigger makes it easy to capture a pattern of up to 5 inputs, or to qualify on 4 signal inputs and trigger on the 5th.



A 2 GHz sine wave input with persistence "on" demonstrates the exceptionally low trigger jitter on WaveMaster oscilloscopes.

True Customization

LeCroy offers the ability to modify parameter measurements or math functions in the oscilloscope's interface for true customization. Users simply add proprietary functionality like MATLAB® or Excel, just as in a LeCroy-installed function. The results are displayed on the screen. Since the



resulting waveform is inserted back into the processing flow, the oscilloscope's cursors, measurements, and math can be performed on it. This feature adds a robust dimension to WaveMaster's capabilities, creating much more flexibility than a simple export of data to a third-party program.

Deep Memory Calculations with Unprecedented Speed

LeCroy's proprietary X-Stream technology offers users the ability to see deep memory calculations updated quickly on the screen.
With waveform processing at speeds 10–100 times faster than conventional oscilloscope technology, users can now easily:

- Capture and analyze long records quickly
- Use advanced tools such as XMATH Advanced Math and XDEV Advanced Customization software packages with long records
- Display unique analysis views, such as 3-dimensional displays, and histicons

WaveScan[™] Advanced Search

WaveScan is a powerful tool that provides the ability to locate unusual events in a single capture, or scan for an event in many acquisitions over a long period of time using more than 20 different search/scan modes.

- Locate problems triggers won't find
- Use measurement-based scanning modes, like frequency, to show statistical distribution of events
- Overlay events for a quick and simple visual comparison

Familiar Controls for Ease of Use

The WaveMaster 8000A Series oscilloscope's user interface is designed to be familiar, intuitive, and efficient. The easily recognizable oscilloscopes controls on the front panel combine with a natural, context-sensitive graphical user interface that react quickly to user commands. A flexible selection of cursors can be positioned by knobs dedicated to specific functions that can be accessed from the front panel or the touch screen.

1. 10.4" Touch Screen Display

800 x 600 SVGA resolution with large screen keeps pop-up control menus from covering the waveform.

2. ProLink Input Connections

High integrity, full bandwidth signal connector with probe power and control in one simple-to-connect interface.

3. One-touch User Interface

Need to quickly change a control parameter? Simply touch the parameter on the screen and the dialog pops up. No need to use several mouse clicks from a pull-down tree.

4. Dedicated Cursor Controls

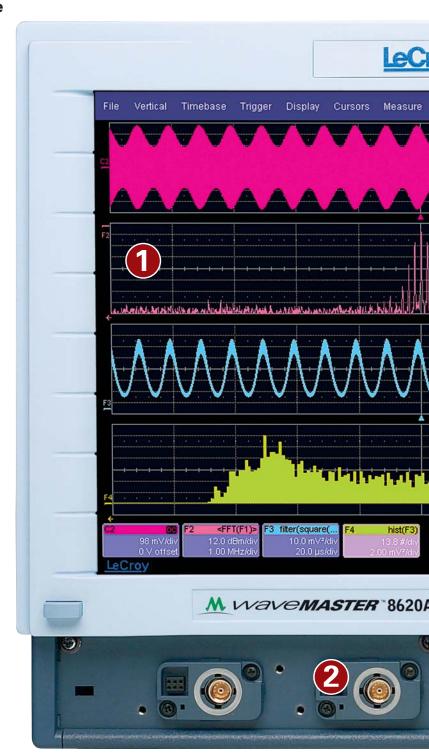
No need to recall the cursor menu to change cursor position.

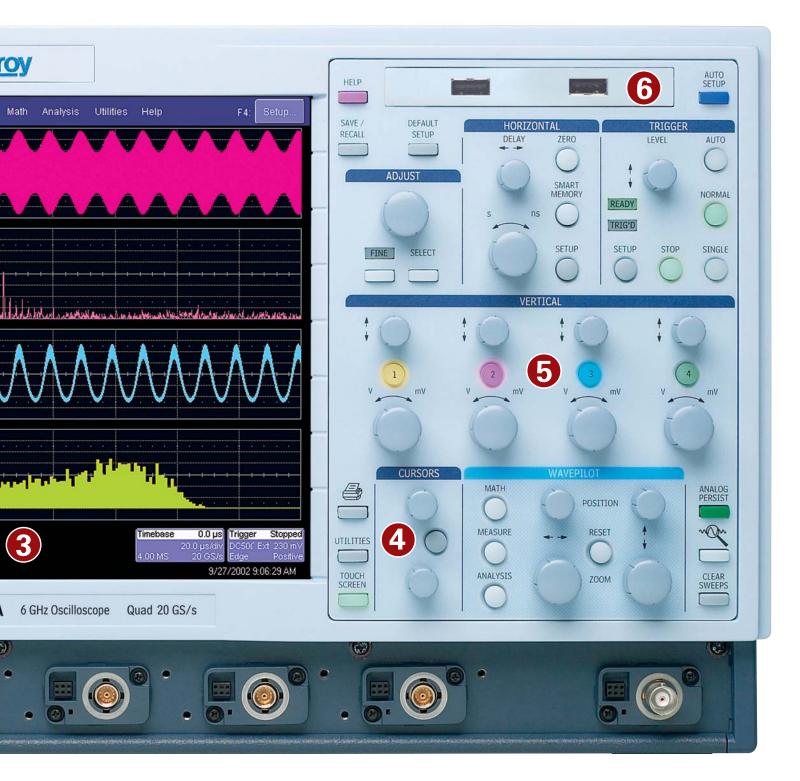
5. Dedicated Vertical Controls

Separate knobs set the vertical scale factor and offset for each active channel. The user can concentrate on the circuit — not on controlling the oscilloscope.

6. Front Access USB 2.0

Provides convenient access for transferring waveform or setup data to flash memory keys, without the need to reach behind the oscilloscope.





LabNotebook™

An In-Scope Solution for Documenting Results

LabNotebook – A Comprehensive Report Documentation and Setup Archival Tool

Now you can efficiently create complete and detailed waveform reports directly in the oscilloscope. An all-in-one solution for annotating and sharing information, LabNotebook simplifies results recording and report generation by eliminating the multi-step processes that often involve several pieces of equipment.

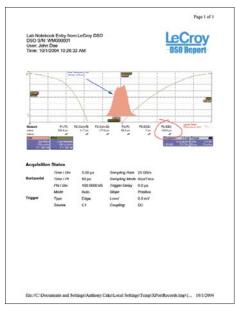


LabNotebook enables users to focus on results rather than the process, as they can now:

- Save all displayed waveforms
- Save the relevant setups with the saved waveform
- Add freehand notes with a stylus, or as text
- Convert the complete report to pdf, rtf, or html
- Print or e-mail reports

Create Notes with the Screen Capture

By pressing Hard Copy, you can annotate waveforms as you capture them. Once the notes are finished, they can be readily saved as a report and e-mailed directly from the oscilloscope.



Flashback Function

Users can employ the Flashback Function to recall the state of the oscilloscope, including saved waveforms and setup. Additional measurements are easily made, using the keyword filter to find the correct notebook entry for recall.

WaveLink® Probes

WaveLink probes provide industry-leading performance for wideband signal connection to test instruments. The first differential probes to employ SiGe technology, they deliver full system bandwidth at the probe inputs when used with WaveMaster 6 GHz and 4 GHz oscilloscopes.

All WaveLink probes offer:

- Excellent low loading characteristics
- Superb flat frequency response
- Outstanding fidelity for high-speed signals



Enhanced Math Functions and Optional Packages

WaveMaster's robust capabilities include all standard math tools, as well as a pass/fail testing feature. Optional packages can boost these abilities even further, with advanced math, measure and timing tools, customization packages, jitter and timing analysis, and more. Please consult the LeCroy Web site for additional information.

Specifications

| Vertical System | WaveMaster 8620A | WaveMaster 8600A XXL | WaveMaster 8420A | WaveMaster 8400A XXL |
|---|---|---|---|--|
| Analog Bandwidth @ 50 Ω (-3 dB) | 6 GHz | 6 GHz | 4 GHz | 4 GHz |
| Rise Time (typical) | 75 ps | 75 ps | 105 ps | 105 ps |
| Input Channels | 4 | · | · | |
| Bandwidth Limiters | 20 MHz, 200 MHz, 1 | GHz. 3 GHz. 4 GHz | 20 MHz. 200 MHz | Hz, 1 GHz, 3 GHz |
| Input Impedance | 50 Ω ±2.0% | | | , |
| Input Coupling | DC, GND | | | |
| Maximum Input Voltage | ±4 V _{peak} | | | |
| Channel-Channel Isolation | ≥ 100:1 at 2 GHz; ≥ 40:1 at 3 | 2 CHz: - 20:1 at 4 CHz | | |
| Vertical Resolution | 8 bits; up to 11 bits with enl | | | |
| | , 1 | | | |
| Sensitivity | 2 mV-1 V/div (fully variable, | < 10 mv/aiv through zoom) | | |
| DC Gain Accuracy | ±1.5% of full scale | P. | | |
| Offset Range | ±750 mV @ 2 mV-194 mV/c | div | | |
| | ±4 V @ 196 mV-1 V/div | | | |
| Offset Accuracy | ±(1.5% of full scale +1.5% | ot ottset value +2 mV) | | |
| Horizontal System | | | | |
| Timebases | Internal timebase common t | to 4 input channels; an exter | rnal clock may be applied at t | he auxiliary input |
| Time/Division Range | Real Time: 20 ps/div – 10 s/d | | | |
| | Random Interleave Sampling | ı: to 20 ps/div, Upper time/di | v limit function of sample rate | e and memory length settings |
| Sample Rate and Delay Time Accuracy | ±1 ppm, aging < 1 ppm/yea | | · | <u> </u> |
| Time Interval Accuracy | ≤ 0.06 / SR + (1 ppm, aging | | ms) | |
| Jitter Noise Floor | 1 ps rms (typical) | i pp , , co | , | |
| | | | | |
| | < 2 ns rms (typical) | | | |
| Trigger and Interpolator Jitter | < 2 ps rms (typical) | ne whichever is larger | | |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range | ±9 x time/div. setting, or 25 | | | |
| Trigger and Interpolator Jitter | ± 9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, | applied at the rear input | y input | |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster | applied at the rear input lance, applied at the auxilian WaveMaster | WaveMaster | WaveMaster |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL | , | 8400A XXL |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; | WaveMaster | 8400A XXL 20 GS/s on 2 Ch; |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch | WaveMaster 8420A 20 GS/s on 4 Ch | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch | WaveMaster 8420A 20 GS/s on 4 Ch | 8400A XXL 20 GS/s on 2 Ch; |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch | WaveMaster 8420A 20 GS/s on 4 Ch | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ | WaveMaster 8420A 20 GS/s on 4 Ch (div limit function of sample ra | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ | WaveMaster 8420A 20 GS/s on 4 Ch div limit function of sample ra | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M | WaveMaster 8420A 20 GS/s on 4 Ch div limit function of sample re 4 Ch 10 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample ra 4 Ch 10 M 32 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous ave | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous ave | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical residues. | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical in Envelope, floor, or roof for united to the second of | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System Modes | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical renvelope, floor, or roof for units of the second of th | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M eraging to 1 million sweeps | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System Modes Sources | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical is Envelope, floor, or roof for united and signal is a signal in the control of the control o | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System Modes Sources Coupling Mode | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical renvelope, floor, or roof for united and the second of | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps cop Ext X 10, Ext ÷10, or line; s | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M eraging to 1 million sweeps | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System Modes Sources Coupling Mode Pre-trigger Delay | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical r Envelope, floor, or roof for u Normal, Auto, Single, and St Any input channel, External, DC 0–100% of memory size (ac | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps cop Ext X 10, Ext ÷10, or line; s | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M eraging to 1 million sweeps | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System Modes Sources Coupling Mode Pre-trigger Delay Post-trigger Delay | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical renvelope, floor, or roof for universely for the smaller of 0–10,000 division of the smaller of 0–1 | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps cop Ext X 10, Ext ÷10, or line; selections or 86400 seconds | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M eraging to 1 million sweeps | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A |
| Trigger and Interpolator Jitter Channel-Channel Deskew Range External Timebase Reference External Clock Acquistion System Single-Shot Sample Rate/Ch Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Memory Points/Ch Standard Memory VL – Memory Option XL – Memory Option Acquisition Processing Averaging Enhanced Resolution (ERES) Envelope (Extrema) Triggering System Modes Sources Coupling Mode Pre-trigger Delay | ±9 x time/div. setting, or 25 100 MHz; 50 Ω impedance, 30 MHz–2 GHz, 50 Ω imped WaveMaster 8620A 20 GS/s on 4 Ch 200 GS/s for repetitive signa 150,000 waveforms/second 6 μs 4 Ch 10 M 32 M 48 M Summed averaging to 1 mill From 8.5 to 11 bits vertical r Envelope, floor, or roof for u Normal, Auto, Single, and St Any input channel, External, DC 0–100% of memory size (ac | applied at the rear input lance, applied at the auxilian WaveMaster 8600A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ls, to 20 ps /div. Upper time/ (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A ion sweeps; continuous averesolution p to 1 million sweeps cop Ext X 10, Ext ÷10, or line; selections or 86400 seconds | WaveMaster 8420A 20 GS/s on 4 Ch /div limit function of sample re 4 Ch 10 M 32 M 48 M eraging to 1 million sweeps | 8400A XXL 20 GS/s on 2 Ch; 10 GS/s on 4 Ch ate and memory length setting (2 Ch) / (4 Ch) 96 M / 48 M N/A N/A |

Specifications

| Triggering System (cont.) | WaveMaster 8620A WaveMaster 8600A XXL | WaveMaster 8420A WaveMaster 8400A XXL | | |
|--|---|---|--|--|
| Trigger Sensitivity with | 3 div @ ≤ 5 GHz | 2 div @ ≤ 4 GHz | | |
| Edge Trigger (Ch 1-4) | 2 div @ < 4 GHz | 1.2 div @ < 3 GHz (typical) | | |
| | 1.2 div @ < 3 GHz (typical) | | | |
| External Trigger Sensitivity, (Edge Trigger) | 300 mV @ ≤ 5 GHz, | 200 mV @ < 4 GHz, | | |
| | 200 mV < 4 GHz | 120 mV @ < 3 GHz | | |
| | 120 mV < 3 GHz (typical) | | | |
| Max. Trigger Frequency, SMART Trigger | 750 MHz @ ≥ 10 mV | | | |
| External Trigger Input Range | Aux (±0.4 V); Aux X10 (±0.04 V); Aux/10 (±4 V) | | | |
| Basic Triggers | | | | |
| Edge | Triggers when signal meets slope and level condition. | | | |
| SMART Triggers | | | | |
| State or Edge Qualified | Triggers on any input source only if a defined state or ed | lge occurred on another input source. | | |
| | Delay between sources is selectable by time or events. | | | |
| Dropout | Triggers if signal drops out for longer than selected time | between 2 ns and 20 s. | | |
| Pattern | Logic combination (AND, NAND, OR, NOR) of 5 inputs. | | | |
| | Each source can be high, low, or don't care. The High ar | nd Low level can be selected independently. | | |
| | Triggers at start or end of the pattern. | | | |
| SMART Triggers with Exclusion | Technology | | | |
| Glitch | Triggers on positive or negative glitches with widths sele | ectable from 600 ps to 20 s, or on intermittent faults. | | |
| Signal or Pattern Width | Triggers on positive or negative pulse widths selectable | from 600 ps to 20 s, or on intermittent faults. | | |
| Signal or Pattern Interval | Triggers on intervals selectable between 2 ns and 20 s. | | | |
| Color Waveform Display | | | | |
| Type | Color 10.4" flat panel TFT-LCD with high resolution touch | n screen | | |
| Resolution | SVGA; 800 x 600 pixels | | | |
| Number of traces | Display a maximum of 8 traces. Simultaneously display | channel, zoom, memory and math traces. | | |
| Grid Styles | Auto, Single, Dual, Quad, Octal, X-Y, Single+X-Y, Dual+X-Y | | | |
| Waveform Representation | Sample dots joined, or sample dots only | | | |
| Analog Persistence Display | | | | |
| Analog and Color-Graded Persistence | Variable saturation levels; stores each trace's persistence | e data in memory | | |
| Persistence Types | Select analog, color graded, or three-dimensional | | | |
| Trace Selection | Select persistence on all or any combination of traces | | | |
| Persistence Aging Timing | Select from 500 ms to infinity | | | |
| Sweep Display Modes | All accumulated, or all accumulated with last trace highli | ghted | | |
| Processor | | | | |
| Туре | Intel® Pentium® 4, 2.54 GHz or better | | | |
| Processor Memory | Up to 2 GB | | | |
| Operating System | Microsoft Windows® XP Professional | | | |
| Oscilloscope Operating Software | Entire instrument including any installed optional applications packages operates within a single | | | |
| (X-Stream) | Windows application | | | |
| Real Time Clock | Date and time displayed with waveform an in hardcopy fi | les. SNTP support to synchronize to precision internal clocks | | |
| Internal Waveform Memory | | | | |
| | 4 active waveform memory traces (M1-M4) store 16 bit, Waveforms can be stored to any number of files limited | | | |
| | vaveronns can be stored to any number of files inflitted | only by the data storage media capacity. | | |
| Setup Storage | | | | |
| Front Panel and Instrument Status | Store to the internal hard drive or to a USB-connected p | eripheral device. | | |

Specifications

| Via Windows Automatio | n, or via LeCroy Remote Cor | mmand Set | | |
|--|--|--|--|--|
| Supports IEEE – 488.2 | Supports IEEE – 488.2 | | | |
| Supports 10/100BaseT Ethernet interface | | | | |
| <u> </u> | <u> </u> | <u> </u> | | |
| 15 pin D-Type SVGA compatible, duplicates instrument display. Optional dual monitor support for split Windows® applications | | | | |
| 1 standard | | | | |
| | | | | |
| Select External Trigger o | Select External Trigger or External Clock Input on the front panel | | | |
| | | | | |
| | | | | |
| 5 Hz–5 MHz square way | ve or DC Level, 0–500 mV int | to 50 Ω , 0–1.0 V into 1 M Ω , or | TTL logic voltages | |
| | | | | |
| | , | . , | <u>u</u> | |
| Automatically sets the vertical sensitivity and offset for the selected channel to display a waveform with the maximum dynamic range | | | | |
| Ensures specified DC ar | nd timing accuracy is maintain | ned for 1 year minimum. | | |
| | | | | |
| 100-240 VAC ±10% at ! | 50/60/400 Hz; 200-240 VAC | ±10% at 50/60 Hz; Automatic | AC Voltage Selection | |
| | | | | |
| WaveMaster 8620A | WaveMaster 8600A XXL | WaveMaster 8420A | WaveMaster 8400A XXL | |
| 800 VA (800 W) | 650 W/650 VA | 800 VA (800 W) | 650 W/650 VA | |
| | | | | |
| +5 °C to +40 °C including | ng CD-ROM drives | | | |
| | | | | |
| 5% to 80% relative humidity (non-condensing) up to +30 °C. Upper limit derates to 25% relative humidity | | | | |
| <u> </u> | | sted per MIL-PRF-28800F | | |
| | | | | |
| | | | | |
| | | | | |
| 264 mm x 397 mm x 49 | 91 mm; 10.4" x 15.6" x 19.3" (| (height excludes feet) | | |
| 23 kg; 50 lbs. | 18 kg; 39 lbs. | 23 kg; 50 lbs. | 18 kg; 39 lbs. | |
| 29 kg; 63 lbs. | 24 kg; 53 lbs. | 29 kg; 63 lbs. | 24 kg; 53 lbs. | |
| | | | | |
| CE Compliant; UL and c | • | 1326 (for EMC); EN 61010, UL | 61010B-1 | |
| and CSA C22.2 No. 101 | 0.1 (for safety) | | | |
| and CSA C22.2 No. 101 | 0.1 (for safety) | | | |
| | 0.1 (for safety) ion recommended annually. | | | |
| | Supports IEEE – 488.2 Supports 10/100BaseT E USB 2.0 ports on front a 15 pin D-Type SVGA cor Optional dual monitor su 1 standard Select External Trigger of Select Calibrator, Trigger 5 Hz–5 MHz square way Automatically sets timely Automatically sets the vertical maximum dynamic range Ensures specified DC ar 100–240 VAC ±10% at 1 WaveMaster 8620A 800 VA (800 W) +5 °C to +40 °C including -20 °C to +60 °C 5% to 80% relative hum (non-condensing) at +40 5% to 95% relative hum Up to 10,000 ft. (3048 m) Up to 40,000 ft. (12,192) 264 mm x 397 mm x 48 23 kg; 50 lbs. | Supports IEEE – 488.2 Supports 10/100BaseT Ethernet interface USB 2.0 ports on front and rear panels support Wind 15 pin D-Type SVGA compatible, duplicates instrume Optional dual monitor support for split Windows® ap 1 standard Select External Trigger or External Clock Input on the Select Calibrator, Trigger Enabled, Trigger Out, Pass/I 5 Hz–5 MHz square wave or DC Level, 0–500 mV in Automatically sets timebase, trigger, and sensitivity I Automatically sets the vertical sensitivity and offset i maximum dynamic range Ensures specified DC and timing accuracy is maintai 100–240 VAC ±10% at 50/60/400 Hz; 200–240 VAC WaveMaster 8620A WaveMaster 8620A WaveMaster 8620A Select Calibrator, Trigger Enabled, Trigger Out, Pass/I Automatically sets timebase, trigger, and sensitivity in Automatically sets the vertical sensitivity and offset is maximum dynamic range Ensures specified DC and timing accuracy is maintai 100–240 VAC ±10% at 50/60/400 Hz; 200–240 VAC WaveMaster 8620A WaveMaster 8620A Select External Trigger or External Clock Input on Hassila Support Out, Pass/I WaveMaster 8620A Select External Trigger or External Clock Input on Hassila Automatically sets timebase, trigger, and sensitivity in Automatically sets tim | Supports 10/100BaseT Ethernet interface USB 2.0 ports on front and rear panels support Windows® XP compatible devices 15 pin D-Type SVGA compatible, duplicates instrument display. Optional dual monitor support for split Windows® applications 1 standard Select External Trigger or External Clock Input on the front panel Select Calibrator, Trigger Enabled, Trigger Out, Pass/Fail, or Off 5 Hz–5 MHz square wave or DC Level, 0–500 mV into 50 Ω, 0–1.0 V into 1 MΩ, or Automatically sets timebase, trigger, and sensitivity to display a wide range of repet Automatically sets the vertical sensitivity and offset for the selected channel to display aximum dynamic range Ensures specified DC and timing accuracy is maintained for 1 year minimum. 100–240 VAC ±10% at 50/60/400 Hz; 200–240 VAC ±10% at 50/60 Hz; Automatic MaveMaster 8620A 8600A XXL WaveMaster 8620A 800 VA (800 W) 45 °C to +40 °C including CD-ROM drives -20 °C to +60 °C 5% to 80% relative humidity (non-condensing) up to +30 °C. Upper limit derates to (non-condensing) at +40 °C. 5% to 95% relative humidity (non-condensing) as tested per MIL-PRF-28800F Up to 10,000 ft. (3048 m) at or below +25 °C Up to 40,000 ft. (12,192 m) 264 mm x 397 mm x 491 mm; 10.4" x 15.6" x 19.3" (height excludes feet) 23 kg; 50 lbs. 18 kg; 39 lbs. 23 kg; 50 lbs. | |

Ordering Information

Product Code

Product Description

| WaveMaster Digital Oscilloscopes | |
|--|---|
| 4 Ch; 6 GHz; 20 GS/s; 10 Mpts/Ch | WaveMaster 8620 |
| 4 Ch; 6 GHz; 10 GS/s; 50 Mpts/Ch; 20 GS/s and 100 Mpts/Ch max. using 2 or 1 Ch | WaveMaster 8600A XXI |
| 4 Ch; 4 GHz; 20 GS/s; 10 Mpts/Ch | WaveMaster 8420 |
| 4 Ch; 4 GHz; 10 GS/s; 50 Mpts/Ch; | WaveMaster 8400A XX |
| 20 GS/s and 100 Mpts/Ch max. using 2 or 1 Ch | vvavorvidotor o roo, troti |
| Memory Options 8620A/8420A | |
| 32 M (4 Ch) | WM-VI |
| 48 M (4 Ch) | WM-XI |
| Included with Standard Configuration | L DA CAAA |
| ProLink Adapter SMA; 4 each | LPA-SMA |
| ProLink Adapter BNC; 2 each | LPA-BN0 |
| Optical 3-button Wheel Mouse-USB | |
| Protective Front Cover | |
| Printed Operator's Manual | |
| Printed Getting Started Manual | |
| Printed Remote Control Manual | |
| Product Manual Set on CD-ROM Software Option Manual on CD-ROM | |
| Norton AntiVirus Software (1 year subscription) | |
| Microsoft Windows License Agreement | |
| Standard Commercial Calibration with Performance | Cortificato |
| Power Cable for the Destination Country | Certificate |
| 3-Year Warranty | |
| | |
| , | |
| Software Options | Durking. |
| Software Options Application Specific Test and Analysis Software (| |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software) | re Package AORN |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Disk Drive Measurement Software Package | re Package AORN DDM: |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Disk Drive Measurement Software Package PowerMeasure Analysis Software Package | re Package AORN DDM: PMA: |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Disk Drive Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package | e Package AORN DDM: PMA: SDA-8B108 |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Disk Drive Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package | re Package AORN DDM: PMA: SDA-8B108 WM-EM0 |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Disk Drive Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Software | re Package AORN DDM: PMA: SDA-8B10B WM-EMG |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Options) Disk Drive Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package | re Package AORN DDM: PMA: SDA-8B10I WM-EM0 are Options DFP: |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Disk Drive Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package | re Package AORN DDM: PMA: SDA-8B10I WM-EMG are Options DFP: JTA |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Disk Drive Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package | re Package AORN DDM: PMA: SDA-8B10I WM-EMG are Options DFP: JTA. SDN |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Recording Measurement Software Disk Drive Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package | e Package AORN |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Recording Measurement Software Disk Drive Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, X | re Package AORN DDM PMA SDA-8B10I WM-EM are Options DFP JTA SDN XDE' (MATH, XDEV) XMAI |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Recording Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package Processing Web Editor Software Package | re Package AORN |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Recording Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package Processing Web Editor Software Package | re Package AORN DDM: PMA: SDA-8B10E WM-EMC are Options DFP: JTA: SDN. XDEV MATH, XDEV) XMATH |
| Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Optical Disk Drive Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Software Digital Filter Software Package Digital Filter Software Package Serial Data Mask Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package Processing Web Editor Software Package for Functions and Parameters Compliance Software Options | re Package AORN DDM: PMA: SDA-8B10E WM-EMC are Options DFP: JTA: SDN. XDEV XMATH, XDEV) XMATH XWEE |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Disk Drive Measurement Software Package PowerMeasure Analysis Software Package 88/10B Decoding and Analysis Software Package 88/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package Processing Web Editor Software Package for Functions and Parameters Compliance Software Options UWB Test Solution Software Package | re Package AORN DDM. PMA. SDA-8B10I WM-EMO are Options DFP. JTA. SDN. XDE' (MATH, XDEV) XMATH XWEI |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software Options) Disk Drive Measurement Software Package PowerMeasure Analysis Software Package 8B/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package Processing Web Editor Software Package for Functions and Parameters Compliance Software Options UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) | re Package AORN DDM: PMA: SDA-8B10I WM-EM0 are Options DFP: JTA SDN: XDE* (MATH, XDEV) XMAI XWEI |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Disk Drive Measurement Software Package (PowerMeasure Analysis Software Package (8B/10B Decoding and Analysis Software Package (BMC Pulse Parameter Software Package (Advanced Math and WaveShape Analysis Software Package (Jitter and Timing Analysis Software Package (Serial Data Mask Software Package (Advanced Customization Software Package (Master Analysis Software Package (Master Analysis Software Package (Processing Web Editor Software Package (Processing Web Editor Software Package (Compliance Software Options (Compliance Software Package (Compliance Software Package (Compliance Software Package (Compliance Software Second Software | e Package AORN DDM: PMA: SDA-8B10E WM-EMC are Options DFP: JTA: SDM. XDE: MATH, XDEV) XMAI XWEE SDA-UWE |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Disk Drive Measurement Software Package (PowerMeasure Analysis Software Package (BB/10B Decoding and Analysis Software Package (BB/10B Decoding and Analysis Software Package (EMC Pulse Parameter Software Package (Advanced Math and WaveShape Analysis Softw (Digital Filter Software Package (Ditter and Timing Analysis Software Package (Serial Data Mask Software Package (Advanced Customization Software Package (Master Analysis Software Package (Includes JTA2, X) Advanced Math Software Package (Processing Web Editor Software Package (For Functions and Parameters (Compliance Software Options (UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) (Ethernet Application Software Package (USB Application | e Package AORN DDM: PMA SDA-8B10! WM-EM! are Options DFP: JTA: SDM: XDE' (MATH, XDEV) XMAI XWEI SDA-UWI |
| Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Advanced Optical Recording Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, Advanced Math Software Package (Includes JTA2, Advanced Math Software Package Processing Web Editor Software Package For Functions and Parameters Compliance Software Options UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) Ethernet Application Software Package WSB Application Software Package *TF-ENET-B required. † TF-USB-B required. | e Package AORN DDM: PMA SDA-8B10! WM-EM! are Options DFP: JTA: SDM: XDE' (MATH, XDEV) XMAI XWEI SDA-UWI |
| Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Advanced Optical Recording Measurement Software Package PowerMeasure Analysis Software Package 88/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, Advanced Math Software Package (Includes JTA2, Advanced Math Software Package Processing Web Editor Software Package For Functions and Parameters Compliance Software Options UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) Ethernet Application Software Package WSB Application Software Package *TF-ENET-B required. † TF-USB-B required. | re Package AORN DDM: PMA: SDA-8B10E WM-EMC are Options DFP: JTA: SDM. XDE* MATH, XDEV) XMATH XWEE SDA-UWE QPHY-ENET: QPHY-USB |
| Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Advanced Optical Recording Measurement Software Package PowerMeasure Analysis Software Package BB/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Softw Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, Advanced Math Software Package (Includes JTA2, Advanced Math Software Package Processing Web Editor Software Package For Functions and Parameters Compliance Software Options UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) Ethernet Application Software Package *TF-ENET-B required. † TF-USB-B required. Serial Data Options UART and RS-232 Decode only Option | re Package AORN DDM: PMA: SDA-8B10F WM-EMC are Options DFP: JTA: SDM. XDE: MATH, XDEV) XMAI XWEE SDA-UWE QPHY-ENET: QPHY-USB |
| Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Advanced Optical Recording Measurement Software Package PowerMeasure Analysis Software Package 88/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Software Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package Processing Web Editor Software Package Frocessing Web Editor Software Package For Functions and Parameters Compliance Software Options UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) Ethernet Application Software Package WSB Application Software Package *TF-ENET-B required. † TF-USB-B required. Serial Data Options UART and RS-232 Decode only Option | e Package AORM DDM: PMA: SDA-8B10E WM-EMC are Options DFP: JTA: SDM. XDE: MATH, XDEV) XMAF XWEE SDA-UWE QPHY-ENET: QPHY-USB WM-UART-RS232bus E WM-I2Cbus E |
| Software Options Application Specific Test and Analysis Software (Advanced Optical Recording Measurement Software (Advanced Optical Recording Measurement Software Package PowerMeasure Analysis Software Package 88/10B Decoding and Analysis Software Package 88/10B Decoding and Analysis Software Package EMC Pulse Parameter Software Package EMC Pulse Parameter Software Package Advanced Math and WaveShape Analysis Software Digital Filter Software Package Jitter and Timing Analysis Software Package Serial Data Mask Software Package Advanced Customization Software Package Master Analysis Software Package (Includes JTA2, XAdvanced Math Software Package (For Functions and Parameters Compliance Software Options UWB Test Solution Software Package (For WaveMaster 8620A and 8600A XXL) Ethernet Application Software Package USB Application Software Package *TF-ENET-B required. † TF-USB-B required. Serial Data Options UART and RS-232 Decode only Option IPC Decode only Option EIN Decode only Option LIN Decode only Option | re Package AORM DDM: PMA: SDA-8B10E WM-EMC are Options DFP: JTA: SDM. XDE |

| Product Description | Product Code | | | |
|---|------------------|--|--|--|
| Hardware Options and Accessories | | | | |
| 2 x 36 inch SMA to SMA Cable | ENET-2CAB-SMA036 | | | |
| 2 x 18 inch SMA to SMA Cable | ENET-2CAB-SMA018 | | | |
| 2 x BNC to SMA Adapter E | NET-2ADA-BNCSMA | | | |
| IEEE-488 GPIB Control Interface | GPIB-1 | | | |
| Dual Monitor Display | DMD-1 | | | |
| Keyboard, USB | KYBD-1 | | | |
| ProLink-to-BNC Adapter; 1 each | LPA-BNC | | | |
| Kit of 4 ProLink BNC Adapters with Case | LPA-BNC-KIT | | | |
| ProLink-to-SMA Adapter | LPA-SMA | | | |
| Kit of 4 SMA ProLink Adapters with Case | LPA-SMA-KIT | | | |
| Oscilloscope Cart with Additional Shelf and Drawer | OC1024 | | | |
| Oscilloscope Cart | OC1021 | | | |
| Rackmount Adapter with 25" (64 cm) Slides | RMA-25 | | | |
| Rackmount Adapter with 30" (76 cm) Slides | RMA-30 | | | |
| Video Trigger Module | VT75 | | | |
| Internal Graphics Printer | WM-GP02 | | | |
| Removable Hard Drive Package (Includes USB, CD-ROM, Removable Hard Drive, and Spare Hard | WM-RHD | | | |
| Additional Removable Hard Drive | WM-RHD-02 | | | |
| CD-ROM Read/Write Upgrade | WM-CDRW | | | |
| Soft Carrying Case | WM-SCC | | | |
| Hard Transit Case | WM-TC1 | | | |
| 1 MΩ Adapter includes PP005A Passive Probe | AP-1M | | | |
| Compliance Test Fixtures | | | | |
| 10/100/1000Base-T Compliance Test Fixture | TF-ENET-B* | | | |
| USB 2.0 Testing Compliance Test Fixture | TF-USB | | | |
| *Includes ENET-2CAB-SMA018. | | | | |
| Probes and Probe Accessories | | | | |
| 2.5 GHz, 0.7 pF Active Probe (÷10), Small Form Factor | HFP2500 | | | |
| Set of 4 ZS1500, 1.5 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe | ZS1500-QUADPAK | | | |
| Set of 4 ZS1000, 1 GHz, 0.9 pF, 1 MΩ High Impedance Active Probe | ZS1000-QUADPAK | | | |
| WaveLink 7.5 GHz, Differential Probe Adjustable Tip Module | D600A-AT* | | | |
| WaveLink 7 GHz, Differential Probe Small Tip Module | D600ST* | | | |
| WaveLink 4 GHz, 5 V Differential Probe Small Tip Module | D350ST* | | | |
| WaveLink 6 GHz, Differential Positioner Mounted Tip Modu | le D500PT* | | | |
| WaveLink ProLink Probe Body | WL600 | | | |
| 7 F CH - L C | -00 O) DD000 | | | |

*For a complete probe, order a WL600 Probe Body with the Probe Tip Module

7.5 GHz Low Capacitance Passive Probe (\div 10, 1 k Ω ; \div 20, 500 Ω)

Optical-to-Electrical Converter, 500-870 nm ProLink BMA Connector

Optical-to-Electrical Converter, 950–1630 nm ProLink BMA Connector

Customer Service

LeCroy oscilloscopes and probes are designed, built, and tested to ensure high reliability. In the unlikely event you experience difficulties, our digital oscilloscopes are fully warranted for three years and our probes are warranted

This warranty includes: • No charge for return shipping

1 GHz, Active Differential Probe (÷1, ÷10, ÷20)

Probe Deskew and Calibration Test Fixture

• Long-term 7-year support • Upgrade to latest software at no charge



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