

# STREAM

WaveMaster 8620A 8600A 8500A 8300A

Oscilloscopes

# LEADING FEATURES

- 6, 5, or 3 GHz bandwidth 20 GS/s on all four channels (8620A only)
- 10/GS/s sample rate (20 Gs/s dual channel mode)
- All-SiGe front end (up to 75 ps rise time)
- 1 ps rms jitter noise floor
- 1 ppm internal sample clock
- X-Stream Technology data transfer is 10–100X faster than other DSOs
- Customizable add your own measurements or functions (VBScript, MATLAB, Mathcad, or Excel) using the optional XMAP software package
- < 2.5 ps rms trigger jitter</p>
- SiGe trigger circuit
- 10.4" TFT SVGA color display
- 100Base-T Ethernet
- Intuitive GUI
- Win2000 O/S



WaveMaster oscilloscopes include an all-SiGe front-end, X-Stream Technology and extensive customization features. The 8620A model, shown here, has a 20 GS/s per channel sampling rate.

## **Maximum Performance**

The WaveMaster™ oscilloscope is designed to meet next-generation research and development needs. It is the only high bandwidth scope to include an all-SiGe front end for highest signal fidelity, to use unique X-Stream Technology, to provide fast display updates (up to 100X faster) of your analysis, and to provide the ability to customize the scope with your own measurements or functions. Imagine the power this provides to solve your unique problems and to speed product development. In addition, the WaveMaster DSO contains a SiGe trigger circuit for maximum trigger sensitivity at high bandwidths, and extremely low (< 2.5 ps) trigger jitter. A high stability (1 ppm) internal sample clock ensures the most precise timing measurements. Capture up to 2 Mpts with standard memory or upgrade to longer memory (up to 48 Mpts) to enable debug and design characterization of complex or rare occurrences in long-duration signals. The 8620A offers a real-time sampling rate of 20 GS/s per channel for unmatched DSO performance. LeCroy's extensive measurement and analysis tool sets, combined with innovative and intuitive displays, make complex WaveShape Analysis—simple.

## Maximum Benefits

The high fidelity all-SiGe front end is ideal for use with the fastest, highest bandwidth requirements. Users making timing measurements will appreciate the low trigger jitter and superior timebase stability. The high resolution (800x600 pixel) display, and 20% larger viewing area allow for crisp, clear display of signals. Our unique "Histicons" (small images showing live statistical variations in measurements) enable you to find signal problems you weren't even aware of.

## **Probing Solutions**

The WaveMaster line is fully compatible with LeCroy's wide assortment of passive and active, single-ended and differential probing solutions, including the new WaveLink family of probes. When used in conjunction with the 7.5 GHz D600 active differential probe for instance, the 8620A offers 6 GHz system bandwidth at the probe tip. The WaveLink probes also provide the lowest circuit loading and smallest attenuation of any high bandwidth differential probe.Together, WaveMaster and WaveLink provide the highest performance scope/probe combination available.



# WaveMaster 8620A/8600A/8500A/8300A Oscilloscopes

## Unprecedented

The precision and fidelity of the WaveMaster front end is unprecedented in a real-time oscilloscope. LeCroy has delivered the first product to truly meet the needs of high-speed digital designers with a combination of exceptional front end, trigger, and timebase performance, together with long memory, X-Stream Technology, and the first true ability to customize your scope to your exact needs.

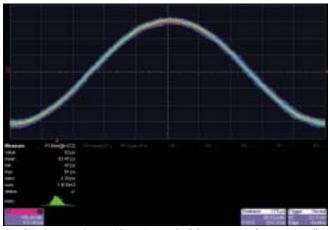
## **Measurement Accuracy – Stable and Precise**

The WaveMaster oscilloscope delivers superior timebase performance and the lowest jitter noise floor of any DSO. The most advanced jitter characterization and analysis is possible with the WaveMaster scope's 1 ps rms jitter noise floor and exceptional timebase stability (+/-1 ppm clock accuracy) for short and long record lengths. In addition, very low trigger jitter (< 2.5 ps) contributes to the ease and accuracy of acquiring high-speed signals. A front end that supports a rise time as fast as 75 ps, enables measurement of the fastest signal edges, with high signal fidelity.

## **Exceptional Trigger Performance**

The WaveMaster SiGe trigger circuit delivers the fastest trigger capability on the market, with a 5 GHz edge trigger bandwidth for capturing fast signals, and superior trigger sensitivity at high bandwidths. 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 trigger on 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 scopes.

# X-Stream Technology

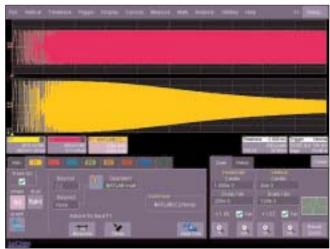
X-Stream should be a standard



feature in every DSO, but it is only available in WaveMaster. X-Stream makes processing of waveform records up to 100X faster than other scopes. Imagine having the ability to see deep memory calculations updated quickly on the screen, and getting fast insight into the source of problems. Innovative views like "Histicons" help you identify signal problems without slowing down your display update. Why would you accept anything less? Leave outdated "viewing" technologies behind and upgrade to X-Stream.

## **True Customization**

Only the WaveMaster DSO provides the ability to create your own parameter measurements or math functions in the scope's user interface. Unique or proprietary MATLAB, Mathcad, VBScript, or even Excel calculations can be simply selected like any other LeCroyinstalled parameter or math function, and the results displayed on the scope screen. It's that easy! Since the resulting waveform is inserted back into the X-Stream processing flow, cursors, measurements, and math can be performed on it, giving much more power and flexibility than a simple export of data to a third party program. LeCroy's advanced features also provide the ability to program the scope using ActiveX Automation language, embedded scripts, and other open Windows features, to create a scope that meets your specific needs. Why accept only connectivity when you can have true customization?



A user-created MATLAB low-pass filter is easily inserted as function F1 in the WaveMaster user interface.

## Cursors

LeCroy has responded to demand from oscilloscope users for dedicated cursor knobs and a very flexible selection of cursors. Different cursor modes are easily recalled and set. You can access them from the front panel or the graphical user interface.

## **User Interface**

The familiar scope controls on the front panel, coupled with a natural, contextsensitive graphical user interface, react quickly to your commands. Functionality is exactly where you expect it to be. If you have questions, the context-sensitive on-line help gives immediate assistance.



# WaveMaster 8620A/8600A/8500A/8300A

# **Oscilloscopes** Specifications

Vertical System	WaveMaster 8620A	WaveMaster 8600A	WaveMaster 8500A	
Analog Bandwidth @ 50 $\Omega$ (-3 dB)	6 GHz	6 GHz	5 GHz	3 GHz
Rise Time (Typical)	75 ps	75 ps	90 ps	150 ps
Input Channels			4	
Bandwidth Limiters		25 MHz; 250 MHz; 1 GHz 3 GHz	; 4 GHz	25 MHz; 250 MHz; 1 GHz
Input Impedance		50 Ω ±2.0%		
Input Coupling		DC, GND		
Maximum Input Voltage	10	±4 Vpeak	20.4 + 4 CI I	
Channel-Channel Isolation Vertical Resolution		0:1 at 2 GHz; ≥ 40:1 at 3 GHz; ≥		
		s; up to 11 bits with enhanced re 2 mV – 1 V/div fully varia		
Sensitivity		±1.5% of Full Scale	IDIE	
DC Gain Accuracy Offset Range	2 \	= 1.5% of Full Scale – 194 mV/div: ±750 mV; 195 m <sup>3</sup>	( 1)//-line + 4.)/	
Offset Accuracy		5% of full scale + 1.5% of offset		
Oliset Accuracy	工(1.			
Harizantal System				
Horizontal System			deal and her and build	har a literation of
Timebases Time/Division Range	Internal timebase common	to 4 input channels; an external	clock may be applied at t	ne auxiliary input
Math & Zoom Traces	1 independent zoom and 1	20 ps/div – 10 s/div math/zoom traces standard; 8 n	asth/zoom tracos availabl	o with XMAP
Math & 200m mates	4 independent 200m and 4 (Master Analysis pac	kage) or XMATH (Advanced Ma	th package)	e with AMAP
Clock Accuracy		$\leq 1 \text{ ppm @ 0-40 degree}$		
Time Internal Accuracy		≤ 0.06 / SR + (1 ppm * Readi		
Sample Rate & Delay Time Accuracy	/	±1ppm ≤ 10s interva		
Jitter Noise Floor		1 ps rms (Typical)		
Trigger & Interpolator Jitter		≤ 2.5 ps (Typical)		
Channel-Channel Deskew Range		±4.5 ns		
External Timebase Reference	100	MHz; 50 $\Omega$ impedance; applied a	at the rear input	
External Clock	30 MHz – 2	$2 \text{ GHz}$ ; 50 $\Omega$ impedance; applied	d at the auxiliary input	
Acquisition System				
Single-Shot Sample Rate/Ch	20 GS/s		10 GS/s	
2 Channel Max		20 GS/s		
Random Interleaved Sampling (RIS)		GS/s for repetitive signals: 20 p		
Random Interleaved Sampling (RIS) Maximum Trigger Rate				
Random Interleaved Sampling (RIS)		GS/s for repetitive signals: 20 p		
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time	150,000 wa	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs	ode, up to 4 channels)	
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch	150,000 wa 4 Ch	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch)	ode, up to 4 channels) Duration @ 20 GS/s	Segments (Sequence Mode)
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard	150,000 wa 4 Ch 2M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms	500 Segments
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard M – Memory Option	150,000 wa 4 Ch 2M 8M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms	500 Segments 1,000 Segments
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard M – Memory Option L – Memory Option	150,000 wa 4 Ch 2M 8M 16M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms	500 Segments 1,000 Segments 5,000 Segments
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard M – Memory Option L – Memory Option VL – Memory Option	150,000 wa 4 Ch 2M 8M 16M 32M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard M – Memory Option L – Memory Option VL – Memory Option XL – Memory Option	150,000 wa 4 Ch 2M 8M 16M 32M 48M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard M – Memory Option L – Memory Option VL – Memory Option	150,000 wa 4 Ch 2M 8M 16M 32M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments
Random Interleaved Sampling (RIS) Maximum Trigger Rate Intersegment Time Maximum Acquisition Points/Ch Standard M – Memory Option L – Memory Option XL – Memory Option XXL – Memory Option	150,000 wa 4 Ch 2M 8M 16M 32M 48M	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XL – Memory Option         XXL – Memory Option	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XXL – Memory Option         Acquisition Processing         Averaging	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XXL – Memory Option         Acquisition Processing         Averaging         Enhanced Resolution (ERES)	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m esolution	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XXL – Memory Option         Averaging	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m esolution	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XXL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m esolution	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
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Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XL – Memory Option         XXL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)         Triggering System         Modes	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re welope, floor, roof for up to 1 m Normal, Auto, Single, and	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XXL – Memory Option         Acquisition Processing         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re welope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)         Triggering System         Modes         Sources	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re ivelope, floor, roof for up to 1 m Normal, Auto, Single, and mal, Ext X10, Ext/10, or line; slo (except line trigger)	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)         Triggering System         Modes         Sources         Coupling Mode	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re velope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m solution illion sweeps Stop pe and level unique to ea	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
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Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XL – Memory Option         XXL – Memory Option         XXL – Memory Option         XXL – Memory Option         XIL – Memory Option         XU – Memory Option         Kotes       Sources         Coupling Mode         Pre-trigger Delay         Post-trigger Delay	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re velope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m solution illion sweeps Stop pe and level unique to ea	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         VL – Memory Option         XL – Memory Option         XXL – Memory Option         XR – Memory Option         XR – Memory Option         XL – Memory Option         XL – Memory Option         XL – Memory Option         XSL – Memory Option         XU – Memory Option         Sources         Coupling Mode         Pre-trigger Delay         Hold-off by Time or Events	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re velope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions Up to 20 s or from 1 to 99 999	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m solution illion sweeps Stop pe and level unique to ea	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XE – Memory Option         Modes         Sources         Coupling Mode         Pre-trigger Delay         Post-trigger Delay         Hold-off by Time or Events         Internal Trigger Range	4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re velope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions Up to 20 s or from 1 to 99 999 ±5 div from center	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop pe and level unique to ea e scale 999 events	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XXL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)         Triggering System         Modes         Sources         Coupling Mode         Pre-trigger Delay         Hold-off by Time or Events	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 μs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re welope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions Up to 20 s or from 1 to 99 999 ±5 div from center dz w/Edge Trigger; 750 MHz w/	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m solution illion sweeps Stop pe and level unique to ea e scale 999 events SMART Trigger	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XXL – Memory Option         XXL – Memory Option         XXL – Memory Option         XIL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)         Triggering System         Modes         Sources         Coupling Mode         Pre-trigger Delay         Hold-off by Time or Events	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter 5 GH (8300A =	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re welope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions Up to 20 s or from 1 to 99 999 ±5 div from center Iz w/Edge Trigger; 750 MHz w/ 3 GHz w/Edge Trigger, 750 MHz w/	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop pe and level unique to ea e scale 999 events SMART Trigger lz w/SMART Trigger)	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XL – Memory Option         XXL – Memory Option         XXL – Memory Option         XIL – Memory Option         Sources         Coupling Mode         Pre-trigger Delay         Hold-off by Time or Events         Internal Trigger Input R	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter Any input channel, Exter 5 GH (8300A = Au	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re ivelope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions Up to 20 s or from 1 to 99 999 ±5 div from center Iz w/Edge Trigger; 750 MHz wi 3 GHz w/Edge Trigger, 750 MHz wi	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop pe and level unique to ea e scale 999 events SMART Trigger lz w/SMART Trigger) ux / 10 (±4 V)	500 Segments 1,000 Segments 5,000 Segments 20,000 Segments 25,000 Segments illion sweeps inch source
Random Interleaved Sampling (RIS)         Maximum Trigger Rate         Intersegment Time         Maximum Acquisition Points/Ch         Standard         M – Memory Option         L – Memory Option         XL – Memory Option         XXL – Memory Option         XXL – Memory Option         XXL – Memory Option         XIL – Memory Option         Averaging         Enhanced Resolution (ERES)         Envelope (Extrema)         Triggering System         Modes         Sources         Coupling Mode         Pre-trigger Delay         Hold-off by Time or Events	150,000 wa 4 Ch 2M 8M 16M 32M 48M N/A Summed Ave Er Any input channel, Exter Any input channel, Exter 5 GH (8300A = Au	GS/s for repetitive signals: 20 p veforms/second (in Sequence M ≤ 6 µs (2 Ch) / (4 Ch) 2M / 1M 8M / 4M 16M / 8M 32M / 16M 48M / 24M 100M / 50M raging to 1 million sweeps; Con From 8.5 to 11 bits vertical re welope, floor, roof for up to 1 m Normal, Auto, Single, and nal, Ext X10, Ext/10, or line; slo (except line trigger) DC 0 – 100% of horizontal time 0 – 10,000 divisions Up to 20 s or from 1 to 99 999 ±5 div from center Iz w/Edge Trigger; 750 MHz w/ 3 GHz w/Edge Trigger, 750 MHz w/	ode, up to 4 channels) Duration @ 20 GS/s 0.1 ms 0.4 ms 0.8 ms 1.6 ms 2.4 ms 5.0 ms tinuous Averaging to 1 m isolution illion sweeps Stop pe and level unique to ea e scale 999 events SMART Trigger lz w/SMART Trigger) ux / 10 (±4 V)	500 Segments 1,000 Segments 5,000 Segments 10,000 Segments 20,000 Segments 25,000 Segments illion sweeps

# WaveMaster 8620A/8600A/8500A/8300A

Oscilloscopes Specifications (continued)

Basic Triggers	
Edge/Slope/Line	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 edge 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 (4 channels and external trigger input)
	Each source can be high, low, or don't care. The High and Low level can be selected independently.
	Triggers at start or end of the pattern.
SMART Triggers® with Exclus	ion Technology
Glitch	Triggers on positive or negative glitches with widths selectable 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.
Automatic Setup	
Auto Setup	Automatically sets timebase, trigger, and sensitivity to display a wide range of repetitive signals.
Vertical Find Scale	Automatically sets the vertical sensitivity and offset for the selected channels to display a waveform
	with maximum dynamic range
Probes	
Probes	A variety of optional passive and active probes is available.
Probe System: ProLink with Probus	Automatically detects and supports a variety of compatible probes; Supports ProLink-SMA and
Code Francisco	ProLink-BNC input adapters
Scale Factors	Automatically or manually selected depending on probe used
Color Waveform Display	
Туре	Color 10.4" flat-panel TFT-LCD with high resolution touch screen
Resolution	SVGA; 800 x 600 pixels
Realtime Clock	Dates, hours, minutes, seconds displayed with waveform. SNTP support to synchronize to precision internet clocks
Number of Traces	Display a maximum of 8 traces. Simultaneously display channel, zoom, memory, and math traces.
Grid Styles	Auto, Single, Dual, Quad, Octal, XY, Single + XY, Dual + XY
Waveform Styles	Sample dots joined or dots only
Analog Persistence Display	
Analog & Color-Graded Persistence	Variable saturation levels; stores each trace's persistence data in memory
Persistence Selections Trace Selection	Select analog, color, or three-dimensional.
Persistence Aging Time	Activate persistence on all or any combination of traces. Select from 500 ms to infinity.
Sweeps Displayed	All accumulated, or all accumulated with last trace highlighted
	, a decandided, or an decandided with lock addo fighting thea
Zoom Expansion Traces	
· ·	Display up to 4 Zoom and 4 Math/Zoom traces; 8 Math/Zoom traces available with
	XMAP (Master Analysis package) or XMATH (Advanced Math package).
CDU	
CPU	
Processor	Intel Pentium 4 @ 2.53 GHz or better with MS Windows 2000
Processing Memory	Up to 2 GBytes
Internal Waveform Memory	
internal Wavelorn Memory	M1, M2, M3, M4 Internal Waveform Memory (Store full-length waveforms with 16 bits/data point)
	Or store to any number of files limited only by data storage media.
	,,,,,,,
Setup Storage	
Front Panel and Instrument Status	Store to the internal hard drive, floppy drive or to a USB-connected peripheral device.
Interface	
Remote Control	Via Windows Automation, or via LeCroy Remote Command Set.
GPIB Port (Optional)	Supports IEEE – 488.2
Specifications are subject to change.	

# WaveMaster 8620A/8600A/8500A/8300A

**Oscilloscopes Specifications** (continued)

Interface		
Remote Control	Via Windows Automation, or via LeCr	oy Remote Command Set.
GPIB Port (Optional)	Supports IEEE – 488.2	
Ethernet Port	10/100Base-T Ethernet interface	
Floppy Drive	Internal, DOS-format, 3.5" high-densit	ty
USB Ports	4 USB ports support Windows compa	tible devices
External Monitor Port Standard	15-pin D-Type SVGA-compatible	
Parallel Port	1 standard	
Auxiliary Output		
Signal Types	Select from calibrator or control signa	ls output on front panel.
Calibrator Signal		el; 0.0 to 0.5 V into 50 $\Omega$ (0–1 V into 1 M $\Omega$ ),
	or TTL Volts (Selectable)	
Control Signals	Trigger enabled, trigger out, pass/fail	status
Auxiliary Input		
Signal Types	Select from External Trigger or Extern	al Clock input on front panel.
General		
Auto Calibration	Ensures specified DC and timing accu	racy is maintained for 1 year minimum.
Power Requirements	100–120 VAC at 50/60/400 Hz; 200–2 Power consumption: < 800 VA	240 VAC at 50/60 Hz; Automatic AC Voltage selection.
Environmental		
Temperature (Operating)	+5 °C to +40 °C including floppy disk	and CD-ROM drives
Temperature (Non-Operating)	–20 °C to +60 °C	
Humidity (Operating)	5% to 80% relative humidity (non-con	densing) up to +30 °C. Upper limit derates to 25% relative
	humidity (non-condensing) at +40 °C.	
Humidity (Non-Operating)	5% to 95% relative humidity (non-con	densing) as tested per MIL–PRF–28800F.
Altitude (Operating)	up to 10,000 ft (3048 m) at or below ·	+25 °C
Altitude (Non-Operating)	Up to 40,000 ft (12,192 m)	
Random Vibration (Operating)	0.31 g <sub>rms</sub> 5 Hz to 500 Hz, 15 minutes	in each of three orthogonal axes
Random Vibration (Non-Operating)	2.4 g <sub>rms</sub> 5 Hz to 500 Hz, 15 minutes i	n each of three orthogonal axes
Functional Shock	20 g peak, half sine, 11 ms pulse, 3 sh	nocks (positive and negative) in each of three orthogonal axes, 18 shocks total
Physical Dimensions		
Dimensions (HWD)	264 mm x 397 mm x 491 mm; 10.4" x	x 15.6" x 19.3" (height excludes feet)
	8620A	8300A, 8500A, 8600A
Weight	23 Kg; 49 lbs.	18 kg; 39 lbs.
Shipping Weight	29 Kg; 63 lbs.	24 kg; 53 lbs.
Certifications		
	CE Approved, UL and cUL listed;	
	Conforms to EN 61326-1; EN 61010-7	1; UL 3111-1; and CSA C22.2 No. 1010.1
Warranty and Service		
	0	

3-year warranty; calibration recommended annually.

Optional service programs include extended warranty, upgrades, and calibration services.

# WaveMaster 8620A/8600A/8500A/8300A Oscilloscopes Specifications (continued)

# Standard

## Math Tools

Display up to four math function traces (F1 - F4). The easy to use graphical interface simplifies setup of up to two operations on each function trace, and function traces can be chained together to perform math-on-math.

absolute value	invert (negate)
average (summed)	log (base e)
average (continuous)	log (base 10)
derivative	product (x)
deskew (resample)	ratio (/)
difference (–)	reciprocal
enhanced resolution (to 11 bits vertical)	rescale (with units)
envelope	roof
exp (base e)	(sinx)/x
exp (base 10)	square
fft (power spectrum, magnitude, phase, up to 25 kpts)	square root
floor	sum (+)
histogram of 1000 events	trend (datalog) of 1000 events
integral	zoom (identity)

### Pass/Fail Testing

Simultaneously test multiple parameters against selectable parameter limits or pre-defined masks. Pass or fail conditions can initiate actions including document to local or networked files, email the image of the failure, save waveforms, send a pulse out at the front panel auxiliary BNC output, or (with the GPIB option) send a GPIB SRO.

# Optional

### Master Analysis Package (XMAP)

This package provides maximum capability and flexibility, and includes all the functionality present in XMATH, XDEV, and JTA2.

### Advanced Math Package (XMATH)

This package provides a comprehensive set of signal WaveShape Analysis Tools providing insight into the waveshape of complex signals. Additional capability provided by XMATH includes:

- Intuitive, Graphical Math Setup (Processing Web) with unlimited chaining of functions
- 8 math traces total (4 additional)
- Parameter math add, subtract, multiply, or divide two different parameters
- Histograms expanded with 19 histogram parameters and up to 2 billion events
- Trend (datalog) of up to 1 million events
- Track graphs of any measurement parameter
- FFT capability added to include: power averaging, power density, real and imaginary components, frequency domain parameters, and FFT on up to 25 Mpts.
- Narrow band power measurements
- Auto-correlation function
- Sparse function
- Cubic and Quadratic Interpolation function

### Advanced Customization Package (XDEV)

This package provides a set of tools to modify the scope and customize it to meet your unique needs. Additional capability provided by XDEV includes

- Creation of your own measurement parameter or math function, using third party software packages, and display of the result in the scope. Supported third party software packages include:
- VBScript MATLAB
- Excel Mathcad
- •CustomDSO create your own user interface in a scope dialog box.
- •Adding macro of keys to run VBScript files
- •Support of plug-ins

### Measure Tools

Displays any 8 parameters together with statistics, including their average, high, low, and standard deviations. Histicons provide a fast, dynamic view of parameters and wave shape characteristics.

area base cycles delay Δ delay duty cycle duration failtime (90–10%, 80–20%, @ level) frequency first last

maximum mean median number of points +overshoot -overshoot peak-to-peak period phase risetime (10–90%, 20–80%, @ level)

#### rms std. deviation top width median phase time @ minimum (min.) time @ maximum (max.) $\Delta$ time @ level $\Delta$ time @ level from trigger x @ max x @ min

## **Timing Tools**

LeCroy M1 Timing Tools runs inside your WaveMaster oscilloscope, acquires data, and calculates, displays, and analyzes jitter in clock and serial data. A wide variety of measurement tools are available including differential crossing point measurements. Jitter viewing tools include line graph, histogram, jitter spectrum, text, and eye diagram. Available in an advanced or basic version.

LeCroy M1 Timing Tool (Advanced, 1 scope)	LeCROY M1 / ADV-1
LeCroy M1 Timing Tool (Advanced, 4 scopes)	LeCROY M1 / ADV-4
LeCroy M1 Timing Tool (Basic)	LeCROY M1 / BASIC

## Jitter and Timing Analysis Package (JTA2)

This package provides jitter timing and analysis using time, frequency, and statistical views for common timing parameters, and also includes other useful tools. JTA2 includes:

- Jitter and timing parameters, with "Track" graphs of
- Cycle-Cycle Jitter- Period- Hold- N-Cycle- Half Period- Skew- N-Cycle with start- Width- Duty Cycleselection- Time Interval Error- Duty Cycle Error- Frequency- Setup
- •Edge@lv parameter (counts edges)
- •Histograms expanded with 19 histogram parameters and up to 2 billion events
- •Trend (datalog) of up to 1 million events
- •Track graphs of all parameters
- Persistence histogram, persistence trace (mean, range, sigma)

## Disk Drive Measurements Package (DDM2)

This package provides disk drive parameter measurements and related mathematical functions for performing disk drive WaveShape Analysis.

Disk Drive Parameters are as follows:

amplitude assymetry local time trough-peak local base local time under threshold local baseline separation narrow band phase local maximum narrow band power local minimum overwrite pulse width 50 local number local peak-peak pulse width 50pulse width 50+ local time between events local time between peaks resolution local time between troughs track average amplitude local time at minimum track average amplitudelocal time at maximum track average amplitude+ local time peak-trough auto-correlation s/n local time over threshold non-linear transition shift

Correlation function

- Trend (datalog) of up to 1 million events
- Histograms expanded with 18 histogram parameters and up to 2 billion events

GH2, 20, G5/, 4, Ch, 2, Mpts/Ch, Standard WAVEMASTER 8620 AveMaster 8600A Four Channel Digital Oscilloscope Product Code AveMaster 8500A Four Channel Digital Oscilloscope Product Code AveMaster 8500A Four Channel Digital Oscilloscope Product Code Code AveMaster 8500A Four Channel Digital Oscilloscope Product Code	/aveMaster 8620A Four	Channel Digital Osci	illoscope	Product Code
GHz, 20, Sis, 2 Ch. (10, GSis, 4 ch.), 2, MptryZCh. 1, Mptr/Ch. Standard     WWVEMASTER 8800       aveMaster 8500A Four Channel Digital Oscilloscope     Product Code       draveMaster 8300A Four Channel Digital Oscilloscope     Product Code       cluded with Standard 8620A, 8600A and 8500A Configurations:     0.01mk Adapter SMA 4 ach       oolink Adapter SMA 4 ach     Dolink Adapter SMA 4 ach     0.01mk Adapter SMA 4 ach       popt Oisk Drive     Dolink Adapter SMO Four Channel Digital Oscilloscope     9.00       popt Oisk Drive     Dolink Adapter SMO Four Channel Manual     9.01       popt Oisk Drive     Dolink Adapter SMO Four Channel, Parallel, SVGA Video Output, USB     9.01       otective Font Cover     andard forts (10/08as-F Ethernet, Parallel, SVGA Video Output, USB     9.01       otective Font Cover     andard forts (10/08as-F Ethernet, Parallel, SVGA Video Output, USB     9.01       otective Font Cover     9.01     9.01     9.01       andard forts (10/08as-F Ethernet, Parallel, SVGA Video Output, USB     9.01     9.01       otective Font Cover     9.01     9.01     9.01	GHz, 20 GS/s 4 Ch, 2 Mpts/	Ch Standard	•	WAVEMASTER 8620A
JaveMaster 8500A Four Channel Digital Oscilloscope         Product Code           GHz, 20 G5/s 2 Ch (10 G5/s, 4 ch), 2 Mpts/2Ch; 1 Mpt/Ch Standard         WAVEMASTER 8300           Cduded with Standard 8620A, 8600A and 8500A Configurations:         WAVEMASTER 8300           cluik dapter SM/s 4 each         Olink Adapter SM/s 4 each         WAVEMASTER 8300           Olink Adapter SM/s 4 each         Olink Adapter SM/s 4 each         WAVEMASTER 8300           Olink Adapter SM/s 4 each         WAVEMASTER 8300         WAVEMASTER 8300           Olink Adapter SM/s 4 each         WAVEMASTER 8300         WAVEMASTER 8300           Olink Adapter SM/s 2 each         WAVEMASTER 8300         WAVEMASTER 8300           Dink Adapter SM/s 2 each         WAVEMASTER 8300         WAVEMASTER 8300           Dink Adapter SM/s 2 each         WAVEMASTER 8300         WAVEMASTER 8300           Dink Adapter SM/s 2 each         WAVEMASTER 8300         WAVEMASTER 8300           Dink Adapter SM/s 2 each         WAVEMASTER 8300         WAVEMASTER 8300           Derators Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software and Recovery Software         WAVEMASTER 8300           PROM Drive         Watemaster 8300A         S300A         WAVEMASTER 8300           PROM Drive         WAVEMASTER 8300         S300A         WAVEMASTER 8300           PROM Drive         WAVEMA	/aveMaster 8600A Four	<b>Channel Digital Osc</b>	illoscope	Product Code
GHz, 20 GS/s 2 Ch. (10 GS/s 4 ch.) 2 Mptry Zhr. 1 Mptr/Ch Standard aveMaster 8300A Four Channel Digital Oscilloscope Product Code GHz, 20 GS/s 2 Ch. (10 GS/s 4 ch.) 2 MptryZch; 1 Mptr/Ch Standard Cluded with Standard 8620A, 8600A and 8500A Configurations: oLink Adapter SM-4 each oLink Adapter SM-2 each Product Code File SM Drive Product Code Code Code SM Drive Product Code SM Drive Pro				WAVEMASTER 8600/
Jave Master 8300 A Four Channel Digital Oscilloscope         Product Code           GHz, 20 GS/s 2 Ch (10 GS/s 4 ch), 2 Mpts/2Ch; 1 Mpt/Ch Standard         WAVEMASTER 8300           cluded with Standard 8620A, 8600A and 8500A Configurations:         olink Adapter SMA; 4 each           oulink Adapter SMA; 4 each         olink Adapter SMA; 4 each           oulink Adapter SMA; 2 each         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software: and Recovery Software:           perdoct SMA Manual         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software:         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software:           perdoct SMA Manual         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software and Recovery Software:         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software and Recovery Software:           outink Adapter BNC; 5 each         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software and Recovery Software:         operator's Manual; Quick Reference Guide; CD-ROM with OW/ RCM, Utility Software and Recovery Software:           outic Control Manual         oppy Disk Drive         oppy Disk Drive         oppy Disk Drive           JROM Drive         oppy Disk Drive         oppy Disk Drive         oppy Disk Drive           JROM Drive         BMtyCrh         8 MptSr/ch         L           JROM Drive         Stator Asstood         StotAs Assto				
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32 Mpts/ch       32 Mpts/2 Ch, 16 Mpts/ch       VL         48 Mpts/ch       48 Mpts/2 Ch, 24 Mpts/ch       XL         ong Memory Models				
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oftware Options         aster Analysis Package       XMAP         ter and Timing Analysis       JTA2         sk Drive Measurement Package       DDM2         elected Accessories       DDM2         olink Adapter BNC; 1 each       LPA-BNC         olink Adapter BNC kit of 4       LPA-BNC-Kit         cyboard       KYBD-1         5 GHz Differential WaveLink Probe       D600         5 GHz Low Capacitance Passive Probe       PP066         5 GHz Active Voltage Probe       PP066         5 GHz Low Capacitance Passive Probe       AP034         MQ Adapter       AP-1IM         protn Anti-Virus       WM-AV         scilloscope Cart       OC1021         scilloscope Cart with additional shelf and drawer       OC1024         ackmount Kit - 25" Silde       RMA-30         aveMaster Soft Carrying Case       WMSCC         aveMaster Hard Shell Transit Case       WMTC1	ong Memory Models	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch	L VL XL
aster Analysis Package     XMAP       ter and Timing Analysis     JTA2       sk Drive Measurement Package     DDM2         elected Accessories     DDM2   elected Accessories       oLink Adapter BNC; 1 each     LPA-BNC       oLink Adapter BNC kit of 4     LPA-BNC-Kit       yeboard     KYBD-1       5 GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Active Voltage Probe     HFP3500       0 GHz Differential Probe     AP034       MQ2 Adapter     AP-1IM       orton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 30" Slide     RMA-30       aveMaster Soft Carrying Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s,	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch	L VL XL WaveMaster 8600A XXI
ter and Timing Analysis     JTA2       sk Drive Measurement Package     DDM2       elected Accessories     DDM2       oLink Adapter BNC; 1 each     LPA-BNC       oLink Adapter BNC kit of 4     LPA-BNC-Kit       tyboard     KYBD-1       5 GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Low Capacitance Passive Probe     AP034       MΩ Adapter     AP034       MΩ Adapter     AP-1M       borton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25″ Slide     RMA-25       ackmount Kit - 30″ Slide     RMA-30       ave/Master Hard Shell Transit Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s,	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI
sk Drive Measurement Package     DDM2       elected Accessories     LPA-BNC       oLink Adapter BNC; 1 each     LPA-BNC       oLink Adapter BNC kit of 4     LPA-BNC-Kit       tyboard     KYBD-1       5 GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Active Voltage Probe     HFP3500       0 GHz Differential Probe     AP034       MΩ Adapter     AP-1M       borton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25″ Slide     RMA-25       ackmount Kit - 30″ Slide     RMA-30       ave/Master Soft Carrying Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s,	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL
elected Accessories         oLink Adapter BNC; 1 each       LPA-BNC         oLink Adapter BNC kit of 4       LPA-BNC-Kit         cyboard       KYBD-1         5 GHz Differential WaveLink Probe       D600         5 GHz Low Capacitance Passive Probe       PP066         5 GHz Active Voltage Probe       HFP3500         0 GHz Differential Probe       AP034         MΩ Adapter       AP-1M         borton Anti-Virus       WM-AV         scilloscope Cart       OC1021         scilloscope Cart with additional shelf and drawer       OC1024         ackmount Kit - 25″ Slide       RMA-30         aveMaster Soft Carrying Case       WMSCC         aveMaster Hard Shell Transit Case       WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s,	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI WaveMaster 8300A XXI
oLink Adapter BNC; 1 each     LPA-BNC       oLink Adapter BNC kit of 4     LPA-BNC-Kit       eyboard     KYBD-1       5 GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Active Voltage Probe     HFP3500       0 GHz Differential Probe     AP034       MQ Adapter     AP-1M       orton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25" Silde     RMA-30       aveMaster Soft Carrying Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI WaveMaster 8300A XXI XMAP JTA2
oLink Adapter BNC kit of 4     LPA-BNC-Kit       eyboard     KYBD-1       5 GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Active Voltage Probe     HFP3500       0 GHz Differential Probe     AP034       MΩ Adapter     AP-1M       borton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25" Slide     RMA-30       aveMaster Soft Carrying Case     WMSCC       aveMaster Hard Shell Transit Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI WaveMaster 8300A XXI XMAP JTA2
eyboard     KYBD-1       5 GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Active Voltage Probe     HFP3500       0 GHz Differential Probe     AP034       MΩ Adapter     AP-1M       orton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25" Slide     RMA-30       aveMaster Soft Carrying Case     WMSCC       aveMaster Hard Shell Transit Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8300A XXI WaveMaster 8300A XXI XMAP JTA2 DDM2
GHz Differential WaveLink Probe     D600       5 GHz Low Capacitance Passive Probe     PP066       5 GHz Active Voltage Probe     HFP3500       0 GHz Differential Probe     AP034       MQ Adapter     AP-1M       orton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25" Slide     RMA-30       aveMaster Soft Carrying Case     WMSCC       aveMaster Hard Shell Transit Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8300A XXI WaveMaster 8300A XXI DDM2 LPA-BNC
5 GHz Low Capacitance Passive Probe       PP066         5 GHz Active Voltage Probe       HFP3500         0 GHz Differential Probe       AP034         MΩ Adapter       AP-1M         orton Anti-Virus       WM-AV         scilloscope Cart       OC1021         scilloscope Cart with additional shelf and drawer       OC1024         ackmount Kit - 25" Slide       RMA-25         ackmount Kit - 30" Slide       RMA-30         aveMaster Soft Carrying Case       WMSCC         aveMaster Hard Shell Transit Case       WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI WaveMaster 8300A XXI XMAP JTA2 DDM2 LPA-BNC LPA-BNC LPA-BNC-Kit
5 GHz Active Voltage Probe       HFP3500         0 GHz Differential Probe       AP034         MΩ Adapter       AP-1M         orton Anti-Virus       WM-AV         scilloscope Cart       OC1021         scilloscope Cart with additional shelf and drawer       OC1024         ackmount Kit - 25" Slide       RMA-25         ackmount Kit - 30" Slide       RMA-30         aveMaster Soft Carrying Case       WMSCC         aveMaster Hard Shell Transit Case       WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI WaveMaster 8300A XXI XMAP JTA2 DDM2 LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1
0 GHz Differential Probe     AP034       MΩ Adapter     AP-1M       orton Anti-Virus     WM-AV       scilloscope Cart     OC1021       scilloscope Cart with additional shelf and drawer     OC1024       ackmount Kit - 25" Slide     RMA-25       ackmount Kit - 30" Slide     RMA-30       aveMaster Soft Carrying Case     WMSCC       aveMaster Hard Shell Transit Case     WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each of Jink Adapter BNC kit of 4 eyboard 5 GHz Differential WaveLinl	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XXI WaveMaster 8500A XXI WaveMaster 8300A XXI XMAP JTA2 DDM2 LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600
orton Anti-Virus WM-AV scilloscope Cart OC1021 scilloscope Cart with additional shelf and drawer OC1024 ackmount Kit - 25" Slide RMA-25 ackmount Kit - 30" Slide RMA-30 aveMaster Soft Carrying Case WMSCC aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each folink Adapter BNC; 1 each S GHz Differential WaveLinl 5 GHz Differential WaveLinl	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XX WaveMaster 8500A XX WaveMaster 8300A XX WaveMaster 8300A XX DDM2 LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600 PP066
scilloscope Cart OC1021 scilloscope Cart with additional shelf and drawer OC1024 ackmount Kit - 25" Slide RMA-25 ackmount Kit - 30" Slide RMA-30 aveMaster Soft Carrying Case WMSCC aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 ea	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	L VL XL WaveMaster 8600A XX WaveMaster 8500A XX WaveMaster 8300A XX WaveMaster 8300A XX WaveMaster 8300A XX WAP JTA2 DDM2 LPA-BNC-Kit LPA-BNC-Kit KYBD-1 D600 PP066 HFP3500 AP034
scilloscope Cart with additional shelf and drawer OC1024 ackmount Kit - 25" Slide RMA-25 ackmount Kit - 30" Slide RMA-30 aveMaster Soft Carrying Case WMSCC aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC kit of 4 eyboard 5 GHz Differential WaveLinl 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600 PP066 HFP3500 AP034 AP-1M
ackmount Kit - 25" Slide RMA-25 ackmount Kit - 30" Slide RMA-30 aveMaster Soft Carrying Case WMSCC aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC kit of 4 eyboard 5 GHz Differential WaveLinl 5 GHz Differential WaveLinl 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter orton Anti-Virus	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600 PP066 HFP3500 AP034 AP-1M WM-AV
ackmount Kit - 30" Slide RMA-30 aveMaster Soft Carrying Case WMSCC aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each oLink Adapter BNC; 1 each oLink Adapter BNC; 1 each oLink Adapter BNC; 1 each S GHz Differential WaveLinl 5 GHz Low Capacitance Pas 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter orton Anti-Virus scilloscope Cart	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage k Probe	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600 PP066 HFP3500 AP034 AP-1M WM-AV OC1021
aveMaster Soft Carrying Case WMSCC aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each s GHz Differential WaveLinl 5 GHz Lotifferential WaveLinl 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter orton Anti-Virus scilloscope Cart scilloscope Cart with additi	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage k Probe	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 DDM2 LPA-BNC-Kit KYBD-1 DG00 PP066 HFP3500 AP034 AP-1M WM-AV OC1021 OC1024
aveMaster Hard Shell Transit Case WMTC1	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package titer and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each of Hz Differential WaveLinl 5 GHz Low Capacitance Pas 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter orton Anti-Virus scilloscope Cart scilloscope Cart scilloscope Cart with additi ackmount Kit - 25" Slide	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage k Probe	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 DDM2 LPA-BNC-Kit KYBD-1 DG00 PP066 HFP3500 AP034 AP-1M WM-AV OC1021 OC1024 RMA-25
arranty & Calibration	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package tter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each ofHz Differential WaveLinl 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter orton Anti-Virus scilloscope Cart scilloscope Cart with additi ackmount Kit - 25" Slide	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage kage	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600 PP066 HFP3500 AP034 AP-1M WM-AV OC1021 OC1024 RMA-25 RMA-30
	ong Memory Models GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, GHz, 20 GS/s, 2Ch (10 GS/s, oftware Options laster Analysis Package ttter and Timing Analysis isk Drive Measurement Pac elected Accessories roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC; 1 each roLink Adapter BNC kit of 4 eyboard 5 GHz Differential WaveLinl 5 GHz Differential WaveLinl 5 GHz Active Voltage Probe 0 GHz Differential Probe MΩ Adapter orton Anti-Virus scilloscope Cart scilloscope Cart with additi ackmount Kit - 25" Silde ackmount Kit - 25" Silde faveMaster Soft Carrying Ca	16 Mpts/ch 32 Mpts/ch 48 Mpts/ch 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 4 Ch), 100 Mpts/2ch; 50 kage kage keprobe ssive Probe	16 Mpts/2 Ch, 8 Mpts/ch 32 Mpts/2 Ch, 16 Mpts/ch 48 Mpts/2 Ch, 24 Mpts/ch MPT/ch MPT/ch	LPA-BNC LPA-BNC LPA-BNC LPA-BNC-Kit KYBD-1 D600 PP066 HFF3500 AP034 AP-1M WM-AV OC1021 OC1024 RMA-25 RMA-30 WMSCC

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