Tektronix

Auszüge der Produktübersicht Highlights

13 MARCH 2019

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12 Bit Oscillscopes 5 & 6 Series MSO





	Base Price Range	Optional Advanced Analysis ¹	Integrated Instruments	Record Length	Display	Sample Rate (All Channels)	Digital Channels	Analog Channels	Bandwidth	
TEK.COM/5SERIESMSO	\$13,000 to \$41,800	Advanced Jitter and Eye Analysis; Aerospace (MIL-STD-1553, ARINC-429); Audio (I ² S, LJ, RJ, TDM); Automotive (CAN, CAN FD, LIN, FlexRay); Automotive Ethernet Compliance; Automotive Sensors (SENT); Computer (RS-232/422/485/UART); Embedded (I ² C, SPI); Ethernet (10BASE-T, 100BASE-TX); Power Analysis; Power Management (SPMI); USB2.0 (LS, FS, HS); USB2.0 Compliance	Oscilloscope; Logic Analyzer¹; Protocol Analyzer¹; Arbitrary/Function Generator¹; Digital Voltmeter²; Frequency Counter²	62.5 Mpoints 125 Mpoints 1	15.6 inch HD (1920x1080) w/ Capacitive Touch	6.25 GS/s	Up to 641	4, 6 or 8	350 MHz, 500 MHz,1 GHz, 2 GHz	5 SERIES MSO
TEK.COM/6SERIESMSO	\$23,500 - \$75,000	-429); Audio (I ² S, LJ, RJ, TDM); Automotive (CAN, CAN FD, LIN, IT); Computer (RS-232/422/485/UART); Embedded (I ² C, SPI); ent (SPMI); USB2.0 (LS, FS, HS); USB2.0 Compliance	Generator ¹ ; Digital Voltmeter ² ; Frequency Counter ²	62.5 Mpoints 125 Mpoints 250 Mpoints 1	15.6 inch HD (1920x1080) w/ Capacitive Touch	25 GS/s	Up to 321	4	1 GHz, 2.5 GHz, 4 GHz, 6 GHz, 8 GHz	6 SERIES MSO



Free with product registration.



5 Series MSO Low Profile MSO58LP

MORE SYSTEM VISIBILITY IN LESS RACK SPACE

5 Series MSO Low Profile	MSO58LP / MSO58LPGSA*
Bandwidth	1 GHz
Maximum Analog Channels / Digital Channels	8 Analog / 64 (opt. in blocks of 8)
Sample Rate (all Analog or Digital chs.)	6.25 GS/s
Standard Record Length (all A&D chs.)	125 Mpts
Waveform Capture Rate	> 500,000 wfms/s
ADC Resolution	12 bits
Effective Number of Bits (ENOB)	7.6 bits @ 1 GHz with High Res
Aux Trig Input	±5 Vrms, 50Ω SMA
Arbitrary/Function Generator	Up to 50 MHz (opt.)
DVM & Trigger Freq. Counter	Free w/ product registration
Operating System	Closed Linux
Standard Probes	None
Dimensions (Height)	3.44 inches, 87.3 mm (2U Rack)
Master Price	<\$5,000 per channel; \$39,900



Best combination of

- channel density
- Performance
- cost per channel

providing deeper insights in less space

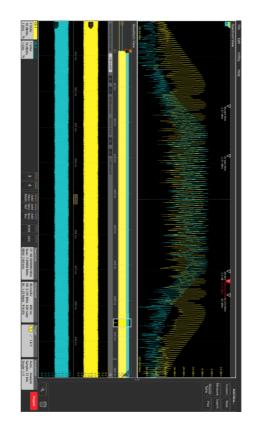


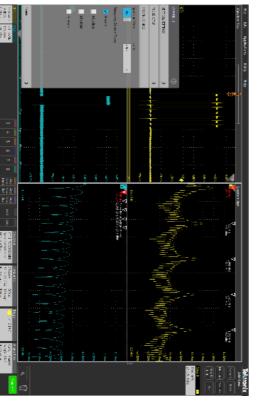
^{*} MSO58LPGSA is a Trade Act Administration compliant version and carries an "Assembled in the USA" status

5 & 6 series: Spectrum View Summary

THE ULTIMATE IN FREQUENCY DOMAIN ANALYSIS ON A SCOPE

- Independent controls in each domain
- Far easier frequency domain view setup than FFT
- Enables to achieve desired view in each domain
- Observe how frequency domain view changes over time
- Correlate frequency domain events with time domain signals/events of interest
- Standard feature on 5/6 Series scopes
- = Key functionality from MDO4000 Series



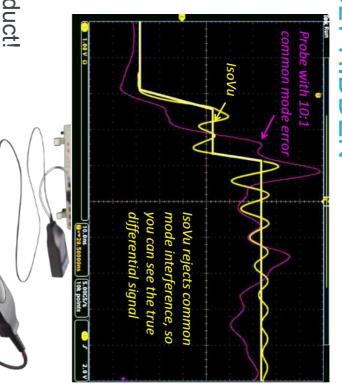




IsoVu™ Probe

SEE SIGNAL DETAIL THAT WAS PREVIOUSLY HIDDEN

- The only probing solution enabling accurate and repeatable results on modern power designs
- Up to 1 GHz bandwidth
- World's best Common Mode Rejection
- Up to 160 dB (100 Million to 1)
- > 120 dB or 1 Million to 1 at 100 MHz
- More than 10,000 times better than any other product!
- 2500 V differential voltage range
- 60 kV common Mode voltage range
- Up to 40 MΩ input resistance
- circuit, and layout, are all properly designed and optimized, inclusive the high side circuitry. The benefits of a power design can only be realized when switching circuit, gate drive





Rogowski Current Probes

FOR USE ON SMALL FORM FACTOR COMPONENTS

- **IRCP0xxx** series
- From 1 Hz to 30MHz
- From 250mA up to 3000A peak
- AC only
- Applications
- Motor drives
- Inverters
- Power supplies
- Industrial



Mixed Domain Oscilloscopes, MDO-Series

VALUABLE INSIGHTS IN YOUR DUT TIME CORRELATED SPECTRUM ANALYZER, OSCILLOSCOPE AND LOGIC ANALYZER ENABLE NEW

- 6 instruments in 1 small, portable package
- Up to 6 GHz hardware spectrum analyzer
- 50MHz arbitrary function generator
- Up to 1GHz oscilloscope bandwidth
- 16ch logic analyzer
- Completely customizable and fully upgradeable
- Advanced trigger and analysis capabilities
- into your DUT Time correlated spectrum analyzer, logic analyzer and oscilloscope for new insights 6 Instruments, 1 Oscilloscope, Infinite Versatility



- Oscilloscope Spectrum Analyzer
- Arbitrary Function
- Logic Analyzer
- Protocol Analyzer

6. DVM/Counter

TBS2000 Series

NEXT-GENERATION BASIC OSCILLOSCOPE

- LONGEST record length in its class, at 20M points
- BIGGEST 9 inch WVGA display with 15 horizontal divisions, for 50% more signal viewing
- Easily and confidently analyze signals with on-waveform cursor readouts and 32 automatic measurements
- ONLY basic oscilloscope with the TekVPI Probe Interface for better application coverage with a wide range of active and current probes
- Guaranteed reliability with a 5 year standard warranty
- Starting at \$1200



70 MHz or 100 MHz Bandwidth
2 or 4 Channels

See more. Measure more Learn more.

70GHz Real Time Oscilloscope

DPO70000SX SERIES BANNER SPECIFICATIONS

- 23GHz to 70GHz Analog Bandwidth, 4.3ps rise time (20%-80%) V Low-noise ATI architecture
- 200GS/s Sample Rate
- <100fs jitter noise floor
- ≥25GHz Edge trigger bandwidth
- Compact 5 ¼" Oscilloscope package

- Best-in-class signal capture
- Compact package with precise multi-unit



- 1 channel x 70GHz bandwidth
- Single-ended, $100 \text{mV}_{\text{fsr}}$ to $300 \text{mV}_{\text{fsr}}$
- 200GS/s sample rate
- Up to 1 Gsamples record length

- 2 channels x 33GHz bandwidth
- Single-ended, 62.5mV_{fsr} to $6V_{fsr}$
- 100GS/s sample rate per channel
- Up to 1 Gsamples record per channel

AFG31000 Series

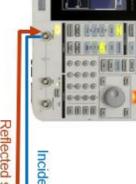
SMART FUNCTION GENERATORS

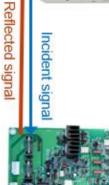
Easy to use

- 9" Capacitive Touch Display with smart UI
- Pinch, Zoom, and Scroll just like a Smart Device
- **Built-in Waveform Creation Capabilities**
- Integrated Waveform Sequencer
- Multi-unit sync

Unique











Key features

- 25MHz, 50MHz, 100MHz, 150MHz, 250MHz
- 14 Bit, 10Vpp, Sequencing mode
- 128Mpts waveform length,





Tektronix AWG5200 Arbitrary Waveform Generator

8 CHANNELS -- FLEXIBILITY

Cleanest Signal

- Industry's best combination of sample rate and vertical resolution
- 16 bits of resolution
- 10 GS/s
- Extremely low noise floor
- Build reliable setups with pre-calibration and pre-compensation

Massively Scalable

- Best in class! Up to 8 independent Channels/unit at a low cost/channel
- Multi-unit synchronization

Simplifying the Rack and Setup

- Direct generation of RF signals up to 8 GHz eliminates the need for more equipment
- Matlab compatibility
- Code compatible with previous Tektronix AWG products

Excellent Price / Performance

- Starting at a base of \$11,000 per channel
- Digital interpolation, complex modulation and (NCO) improve waveform creation efficiency and extends play times



- 10 Gsamples/s sample rate
- 16 bit vertical resolution
- 2 GHz (-3 db) bandwidth, usable to 8 GHz
- 2 GSamples/channel memory
- -70 dBc SFDR (In-band, 10 GS/s, DC-1.25 GHz)
- 1.5 Vp-p Diff @ 2 GHz
- -85 to +10 dBm @ 10 MHz to 2 GHz

AWG70000B Series Arbitrary Waveform Generator

HIGHEST PERFORMANCE FOR ADVANCED SIGNAL GENERATION

- Variable Sample Rates up to 1.5kS/s 50GS/s
- Industry-best 32 GSample Waveform memory NEW!
- Streaming Waveform ID Capability NEW!
- Windows 10 O/S NEW!
- **Sequencing** Capability
- 10 bit Resolution
- 80dBc Spurious Free Dynamic Range



performance and signal purity of the AWG70000 more than met our requirements for this demanding experiment." "The sampling rate of 50 GS/s combined with the ability to synchronize two AWGs enabled us to generate 30-GBaud signals per optical carrier, with a data rate of 233 Gb/s, more than twice the previous record. The S. Chandrasekhar, Bell Labs

Tektronix USB Real-Time Spectrum Analyzer

ONE UNIVERSAL SOFTWARE WITH ENHANCED ANALYSIS





RSA600A series

- 9 kHz 3 or 7.5 GHz, 40 MHz acquisition bandwidth
- Optional tracking generator, Built-in GNSS receiver, AC line powered

RSA500A series

- 9 kHz 18 GHz, 40 MHz acquisition bandwidth
- 70 GHz/sec sweep speed (RBW=1MHz), Battery operated or AC line powered

Field ruggedized, Optional tracking generator, Built-in GNSS/GPS/GLONASS receiver

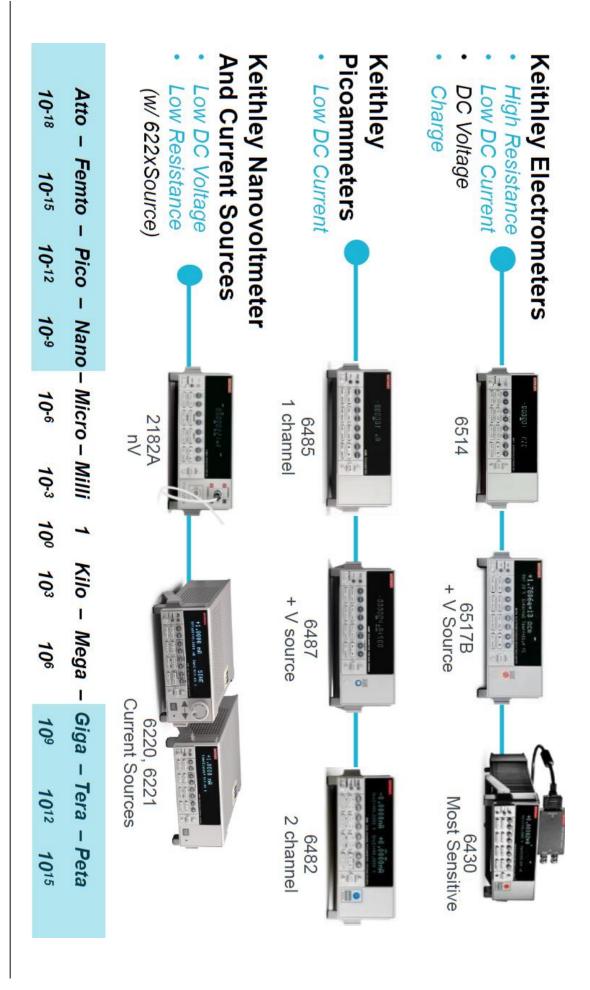
RSA306B

- 9 kHz 6.2 GHz, 40 MHz acquisition bandwidth
- Field ruggedized, USB3.0 powered



Low Level Instruments

MOST PRECISE MEASUREMENT EQUIPMENT



Power Supplies & Electronic Loads

FROM PRECISION, VIA HIGH-POWER TO MULTI-CHANNEL SUPPLIES

- Power Supply Overview
- 15W to 1080 W, 1.2A to 108A, 5V to 800V
- 1ch to 3ch units
- USB, GPIB, LAN, RS-232 interfaces
- Programmable
- Electronic loads up to 750W
- Constant Current (CC), Constant Voltage (CV), Constant Resistance (CR), and Constant Power (CP) operating functions
- LED simulated load test function
- Battery test function
- Dynamic mode with cycle rate up to 25 kHz











TouchScreen Multimeters and DAQs

KEITHLEY, A TEKTRONIX COMPANY

Multimeters DMM7500/6500

- 6½/7½ digits
- 16-bit / 18-bit, 1 MS/s digitizer
- 10-channel scan option
- touchscreen display with pinch

and zoom

- High current sensitivity to 1pA resolution
- High resistance sensitivity
- Built-in programming and control

Data Acquisition Systems DAQ6510

- 6½ digits
- 80-channel, 2-pole capacity for thermocouple, RTD, or thermistor temperature
- 16-bit, 1 MS/s digitizer
- 12 different switch, RF, and control modules
- Scanning speeds 800 channels/second
- Front panel jacks for stand-alone DMM

operation





SourceMeter®:Source & Measure in 1 Unit

TOUCH TEST INVENT® CLASS OF KEITHLEY'S NEXT GENERATION INSTRUMENTS

- Source Measure Units (SMUs)
- Source I or V, Measure I or V, Easy Voltage sweeps
- Tight Source/Measure integration
- And... it's an DMM, PS, and more...
- Integrated capabilities of I-V systems, curve trace
- and analyzers at a fraction of their cost



2650 Serie SMUs für Hochleistung

- Quelle bis zu 50 A Puls, 3000 V, 2000 W
- Messungen bis zu 1 fA, 1 μV
- Kombination f
 ür eine 100A-Stromquelle
- 1 µs, 18-bit Abtastrate



Serie 2600B SMU: Ideal für die Produktion

Serie 2400 SMU: Neue

Touchscreen Benutzeroberfläche

Quelle bis zu 10 pA Pulse

- High Speed Embedded Programming
- Ein- oder Zweikanal-Option
- Quelle bis zu 10 pA Puls, 200 V, 200 W
- Messungen bis zu 0,1 fA, 100 nV



Modell 2520 SMU für Laserdioden-Tests

- Integriertes gepulstes LIV-System
- Zweikanaliges Laserdioden-Mounting
- Optionale Fotometer-Integrationskugel



Niedrigpreis-Option (ohne Touchscreen)

Messungen bis zu 10 fA, 100 nV

SourceMeter®: New High Current SMU 2460

TOUCH TEST INVENT® CLASS OF KEITHLEY'S NEXT GENERATION INSTRUMENTS

- First Touchscreen SMU 2460 with
- 7A DC, 7A Pulse, 100 Watt Source/Sink
- Icon menu
- built-in graphing to help learn faster and get results faster
- High Current DC Version of the highly successful Model 2450 SourceMeter



System Switch/Multimeter and Plug-In Cards

KEITHLEY, A TEKTRONIX COMPANY

- Six-slot system switch mainframe 3706A with optional high performance multimeter
- optimized for high throughput scanning
- Remote PC control via Ethernet, USB, and GPIB
- Up to 576 two-wire or 720 one-wire multiplexer channels
- Up to 2,688 one-pole matrix crosspoints
- Embedded Test Script Processor
- Capable of over 14,000 readings per second
- LXI interface with embedded Web browser interface







Services



Total Product Protection

YOU BREAK IT. WE FIX IT. SIMPLE

- accidental damage FIRST repair plan in the industry to cover
- Protection from wear and tear
- Coverage for electrostatic discharge and electrical overstress
- Factory-certified calibration and cleaning with each repair event



- 3 or 5-year plan options
- 5-day turnaround time

Gold Care Service Plan

MAXIMIZE YOUR UPTIME WITH GOLD CARE

- Extends warranty period to 3 or 5 years
- Reduced downtime with the repair period availability of a loaner unit during
- Coverage for electrostatic discharge and electrical overstress
- Discounts on scheduled and ondemand calibration



- 3 or 5-year plan options
- being repaired performance than instrument Loaner unit of equal or higher
- Includes email notifications of calibration due dates



Tektronix

