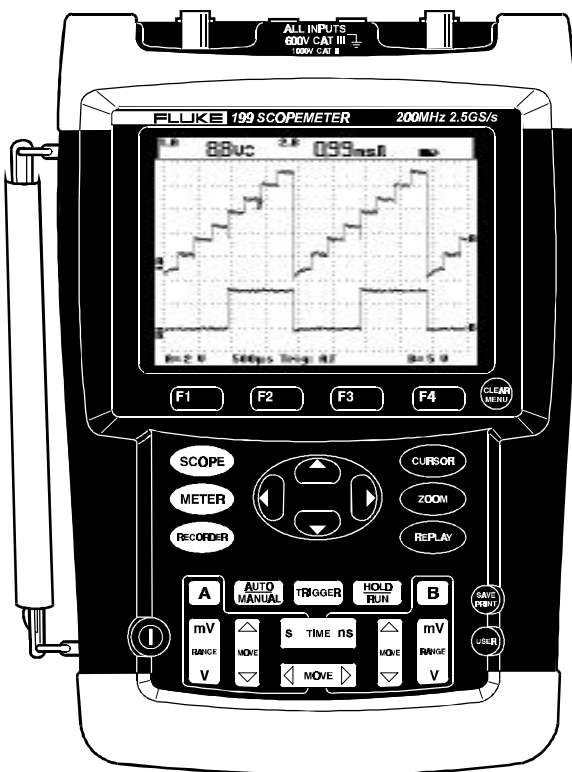# NEW: Fluke 192, Fluke 196 and Fluke 199
60, 100 and 200 MHz with 2.5 GS/s handheld oscilloscopes

Three handheld, battery powered oscilloscopes with up to 200 MHz bandwidth, 2.5 GS/s real time sampling per input, ideal for engineers who need the full capabilities of a high-performance oscilloscope in the field.

The new ScopeMeter 190 Series features:

- 2 channel, 60, 100 or 200 MHz digital storage Oscilloscope
- Up to 2.5 GS/s real-time sampling per input.
- 27,500 points per input record-length using ScopeRecord™-Roll. Captures complete motion profiles, and UPS-, power supply- and motor startups. Then zoom in 100x to see the tiniest details like fast intermittents.
- Advanced triggering capability. Connect-and-View™ automatic triggering for simplicity, a full range of manual triggering modes plus external triggering (third input) for complex timing.
- Automatic capture and replay of 100 screens. Never miss an event. Always capture the last 100 screens and instantly replay them as a live animation or picture-by-picture.
- 24 automatic waveform measurements. Analyze waveform parameters using a full range of automatic functions.

- Cursors, Zoom and real time clock. For analysis of signal details, long records and TrendPlots.
- 1000V CAT II and 600V CAT III safety certified. ScopeMeter 190 series, with standard included probes meets safety standards for measurements up to 1000 Vrms.
- Independently floating isolated inputs. Up to 1000V between inputs, references and ground.
- Complete multifunctional test-tool. Includes a 5000-count true RMS Multimeter and a dual channel TrendPlot™ paperless recorder for up to 8 days of trend and intermittent fault analysis
- Four-hour rechargeable NiMH battery pack.
- Rugged, shockproof case with integrated holster. Dust and drip proof.
- Save up to 2 recordings for later analysis and recall. Each memory location can contain 100 captured dual input scope screens, or a dual input 27,500-point ScopeRecord or a dual input TrendPlot.
- Save up to 10 screens and setups.
- Print screens directly by using the optional adapter/cable or download data to a PC for later analysis and documentation with FlukeView® software.
- Bright, high contrast backlit LCD gives a clear picture in all light conditions.

ScopeMeter 190 Specifications	Fluke 199	Fluke 196	Fluke 192
Bandwidth	200 MHz	100 MHz	60 MHz
Maximum real time sample rate	2.5 GS/s	1 GS/s	500 MS/s
Number of inputs	2 plus external/DMM input isolated from each other and ground.		
Number of digitizers	2		
Timebase range	5 ns/div to 2 min/div		10 ns/div to 2 min/div
Input sensitivity	5 mV to 100 V/div		
Input impedance	1 M ± 1% // 15 pF ± 2 pF		
Acquisition modes	Normal, single shot, ScopeRecord™,roll, glitch capture		
Trigger types	Automatic Connect-and-View ®, Free Run, Single Shot, Edge, Delay, Video, Video line, Selectable pulse width and External		
Glitch capture	50 nsec (5 sec/div to 1 min/div)		
Maximum record length	27,500 points per input ScopeRecord-roll mode (10 ms/div -2 min/div) 1,000 points per input in Scope mode		
Independently floating isolated inputs	Up to 1000 V between inputs, references and ground		
Automatic Scope Measurements	VDC, VAC RMS, VAC+DC, Vpeak max, Vpeak min, Vpeak to peak, frequency (Hz), positive pulse width, negative pulse width, positive duty cycle, negative duty cycle, Amp AC, Amp DC, Amp AC+DC, Power factor, Watts, VA, VA reactive, Phase, Temperature C, Temperature F, dBV, dBm into 50 and 600 .		
Cursor measurements	Value at cursor, difference between cursors, time of day, time from start, time difference.		
Size	256 x 169 x 64mm (10.1 x 6.6 x 2.5 inches)		
Weight	1.95 kg (4.3 lbs)		
Safety certified (EN61010-1)	1,000 V CAT II/600 V CAT III with standard probes.		
Autoranging Multimeter	5,000 counts True RMS		
Warranty	3 years		

Optional Accessories

- SCC190 Kit containing FlukeView software for Windows, PM9080/001 interface adapter/cable and C190 hard case.
- C190 Hard carrying case for ScopeMeter 190 series
- C195 Soft carrying case for ScopeMeter 190 series
- PM9080/001 Optically isolated RS 232 Adapter/cable. Connect ScopeMeter to a PC for Documentation and analysis with Fluke View software.
- PAC91 Serial to parallel printer adapter cable. Connect ScopeMeter to a printer for direct print-out.
- SW90W FlukeView software for Windows. Transfer screens, waveform data and setups to a PC for documentation and analysis.
- VP190-R 10:1 Voltage probe (red).
- VP190-G 10:1 Voltage probe (gray).
- AS190-R Industrial probe accessory set for red VP190 probe. Set includes 2 industrial alligators, 2 ground leads and 2 mm test probes.
- AS190-G Industrial probe accessory set for gray VP190 probe. Set includes 2 industrial alligators, 2 ground leads and 2 mm test probes.
- RS190 Probe replacement set. Set contains 5 ground springs for SMD probing, 3 hook clips, 3 ground leads with hook clip and a 4 mm probe tip adapter.
- CS20MA 4-20mA Current shunt

Ordering Information

- FLK-192 – Fluke 192 ScopeMeter 60 MHz-500MS/s
- FLK-192/S - Fluke 192 ScopeMeter 60 MHz-500MS/s with SCC 190 Kit
- FLK-196 – Fluke 196 ScopeMeter 100 MHz-1GS/s
- FLK-196/S - Fluke 196 ScopeMeter 100 MHz-1GS/s with SCC 190 Kit
- FLK-199 – Fluke 199 ScopeMeter 200 MHz-2.5GS/s
- FLK-199/S - Fluke 199 ScopeMeter 200 MHz-2.5GS/s with SCC 190 Kit