Features and Benefits

190 M Medical Scopemeter® Portable Oscilloscope

Features	Benefits
Two or four isolated floating channels	• Inspect multiple signals of time, amplitude or wave-shape relationships, especially in 3-phase power systems or automation and control system inputs, outputs and feedback loops • The only scope that can safely measure from the 3-phase input all the way through to millivolt control signals. The ability to verify critical aspects of the power system • Safely perform differential or floating measurements on multiple signals simultaneously • View and measure waveform amplitude, shape and timing differences between signals or four test points
200 MHz bandwidth Up to 2.5 GS/s high-speed sampling	• Capture waveform details with resolution as much as 400 pS capturing phenomena like fast transients and induced noise. Able to manage CT and MRI noise • 4 channel can operate in 2 channel mode increase your sampling rate for high resolution video
Time base range	• "2 ns/div to 4 s/div, time base in a 1-2-4- sequence • Slower time/division settings using ScopeRecord™ roll mode (see 'Recorder mode')" • Higher fidelity on video wave forms
Lithium ion batteries and access door	• High-capacity batteries for operating scope up to seven hours operating time so no time lost in the field and no need to find outlet • Battery door allows for an easy recharge of batteries or battery swap to extend operating time • Because battery operated, to use a box type oscilloscope
Advanced functions	• mA*s (current-over-time, between cursors); • V*s (voltage over time, between cursors); • W*s (energy, between cursors)
Connect-and-View™	• Connect-and-View: hands-free operation, trigger, capture and display complex waveforms

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ScopeRecord™	• Sample rate 125M/sec Higher resolution for zooming in roll mode eases capture during short exposure times • Pre define your routine measurements. Save the setting (volts, trigger, time per division) for faster set up for momentary signals
Advanced power and motor drive functions	• Applicable to duty cycle calculations Power Factor (PF)
TrendPlot TM	• Excellent for power analysis • Multiple channel electronic paperless recorder graphically plots, displays and stores results of up to four automatic scope measurements or a digital multimeter reading over time
10,000 points per trace waveform capture (scope mode)	• Flexible acquisition modes and deep memory allow users to capture high resolution samples over longer record lengths
Smart averaging	• Displays averaged curve; incidental waveforms that differ too much from the average result waveform are displayed immediately but are not taken into account for the averaging process
Waveform compare	• Provides storage and display of a reference waveform for visual comparison with newly acquired waveforms. Reference is derived from an acquired waveform and can be modified in the oscilloscopeor externally using FlukeView Software. Specifically helpful in calibration
Pass/Fail Testing	• In waveform compare mode, the oscilloscope can be set up to store only matching (“Pass”) or only non-matching (“Fail”) acquired waveforms in the replay memory bank for further analysis. History with circuit save ideal view and compare to new waveform. • Helps save time in analyzing if screen is within tolerance
High-resolution, non-interlaced video	• Non-interlaced video with line-select, for line frequencies in the range 14 kHz up to 65 kHz supports over 2000 lines of video
Waveform mathematics	• A + B, A – B, A x B, all with user-selectable scaling of resultant

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	• A versus B (X-Y-mode); frequency spectrum using FFT analysis • Convenient for differential signals
Automatic capture and replay of 100 screens	• A built-in recorder to review/display intermittent random events before it is lost forever • Great capacity to see what happened before a triggered event
Isolated USB host port/device port	• Provides direct data storage to a USB memory device • Provides easy data transfer to a PC;a digital multimeter cannot do this
Compact and lightweight	• Only 2.2 kg (4.8 lbs) makes it easy to carry anywhere
5,000 count DMM in the 2 channel model	• Increased versatility: perform precise digital multimeter amplitude measurement or simply switch over to scope mode for waveform analysis

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