

**Aumictech**

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Data Sheet

August 13, 2026

FLUKE

Fluke 190-504-III Color ScopeMeter, 500 MHz, 4 channels

Fluke Mixed Signal Oscilloscopes (MSO). Bandwidth: 500 MHz, Channels: 4 (all fully isolated), Voltage: 1000 V.



MODEL

Fluke 190-504-III

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

190-504-III

LISTING

<https://aumictechlabs.com/products/190-504-iii-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 190-504-III Color ScopeMeter is a four-channel, 500 MHz handheld oscilloscope integrating digital oscilloscope, multimeter, and paperless recorder functionality into a single battery-powered field instrument. All four inputs are fully floating and independently isolated, enabling safe measurements across mixed circuits with different ground references. The unit withstands up to 1000 V and delivers 0.7 ns rise time with maximum real-time sample rates of 5 GS/s (single channel), 2.5 GS/s (two channels), or 1.25 GS/s (four channels). Technical Specifications Oscilloscope Core Bandwidth: 500 MHz Channels: 4 (all fully isolated) Maximum input voltage: 1000 V Rise time: 0.7 ns Vertical resolution: 8 bit Maximum real-time sample rates: 5 GS/s (1 ch), 2.5 GS/s (2 ch), 1.25 GS/s (4 ch) Input sensitivity: 2 mV to 100 V/div (1:1); 20 mV to 1000 V/div (10:1 probe); 200 mV to 10 kV/div (100:1 probe) Measurement accuracy (4 s to 10 μ s/div): $\pm(1.5\% + 6 \text{ counts})$ at 5 mV/div to 100 V/div; $\pm(1.5\% + 10 \text{ counts})$ at 2 mV/div Bandwidth

limiters: 20 MHz, 10 kHz Deep memory: 10,000 points per trace (Scope mode); 30,000 points per input channel (ScopeRecord mode) Analysis & Recording Connect-and-View™ triggering for automatic waveform display TrendPlot™ paperless recorder: up to 11 days of continuous recording FFT frequency spectrum analysis Waveform functions: compare, pass/fail testing, automatic measurements, cursor analysis Screen capture and replay: 100 screens Multimeter 5000 count DMM Functions: Vdc, Vac, Vac+dc, resistance, continuity, diode testKey Features Four fully isolated, floating input channels eliminate ground-loop hazards Input coupling options: AC or DC with ground level indicator AC/DC coupling with selectable bandwidth limiting reduces noise in measurement-critical applicationsConnectivity USB-A port for Wi-Fi adapter connection Mini-USB-B port for PC remote control and data transfer via FlukeView-2 software Wi-Fi and USB data transfer for archiving and analysisTypical Applications Industrial troubleshooting, field service testing, mixed-signal circuit analysis, long-term monitoring for intermittent fault detection.

Features & description

From manufacturer datasheet

Features

• 4 fully isolated input channels • Connect-and-View triggering; 100-screen Replay • TrendPlot paperless recorder; ScopeRecord mode • Mini-USB with FlukeView-2 • Probe-cal output

Applications

• Industrial machinery and automation troubleshooting • Three-phase / multi-axis timing and amplitude measurements • Capture of noise, glitches, and intermittent events • TrendPlot and ScopeRecord long-term recording

190504III Characteristics / Specifications

PARAMETER	VALUE
Model	190-504-III
Manufacturer	Fluke
Instrument Type	Color ScopeMeter
Alias	190-504-III; Fluke 190-504-III; 190 Series III
Channels	4
Bandwidth	500 MHz
Rise time	0.7 ns
Sample rate class	up to 5.0 GS/s
Memory	10,000 samples per channel
Vertical resolution	8 bit
Input impedance	1 Mohm (+/-1%) // 15 pF (+/-2.25 pF)
Sensitivity with	1: 20 mV to 1000 V/div
Sensitivity direct	1: 2 mV to 100 V/div
Bandwidth limiter	20 MHz and 10 kHz
Safety	CAT III 1000 V / CAT IV 600 V

190504III Specifications

PARAMETER	VALUE
Key Features	- 4 fully isolated input channels
Technical Specifications	Model: 190-504-III
Notes	Specs from Fluke 190 Series III datasheet for 190-504. Confirm SCC kit contents if listed as -S variant.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	190-504-III
Manufacturer	Fluke
Instrument Type	Color ScopeMeter
Alias	190-504-III; Fluke 190-504-III; 190 Series III

Specifications

PARAMETER	VALUE
Channels	4
Bandwidth	500 MHz
Rise time	0.7 ns
Sample rate class	up to 5.0 GS/s
Memory	10,000 samples per channel
Vertical resolution	8 bit
Input impedance	1 Mohm (+/-1%) // 15 pF (+/-2.25 pF)

Sensitivity with 10:1: 20 mV to 1000 V/div

Sensitivity direct 1:1: 2 mV to 100 V/div

Bandwidth limiter: 20 MHz and 10 kHz

Safety: CAT III 1000 V / CAT IV 600 V

Accuracy 4 s to 10 us/div (5 mV-100 V/div): +/- (1.5% + 6 counts)

Notes

Specs from Fluke 190 Series III datasheet for 190-504. Confirm SCC kit contents if listed as -S variant.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.