

TEKTRONIX

TDS744A

The Tektronix TDS744A is a 4-channel digital oscilloscope offering a 500 MHz bandwidth and a maximum sample rate of 2 GS/s on a single channel. It features a color display and standard connectivity including GPIB, RS-232, and VGA output, making it suitable for a variety of test and measurement applications.

SPECIFICATIONS

General

Display	Color
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Physical

Power Supply	90 to 250 VAC RMS, 45 to 440 Hz, 300 W max
Operating Temperature	+4 to +50 °C
Dimensions (W×H×D)	432 × 193 × 434 mm
Weight	14.1 kg

Vertical System

Number of Channels	4
Bandwidth	DC to 500 MHz
Vertical Sensitivity Range	1 mV/div to 10 V/div
Input Impedance	1 MΩ or 50 Ω
Input Connectors	BNC (female)
Maximum Input Voltage (1 MΩ)	400 V (DC + peak AC)
Maximum Input Voltage (50 Ω)	5 V RMS
Bandwidth Limiters	20 MHz, 250 MHz

Horizontal System

Maximum Sample Rate	2 GS/s (1 channel)
Timebase Range	500 ps/div to 10 s/div
Time Base Accuracy	±25 ppm over any interval ≥ 1 ms

Input/Output Interfaces

GPIB (IEEE 488.2)	Yes
Video Output	VGA

Performance

Record Length	50,000 points/ch (500,000 points/ch with Option 1M)
Maximum Waveform Capture Rate	400,000 wfms/s (InstaVu mode)
Acquisition Modes	Sample, Envelope, Average, High Resolution, Peak Detect, InstaVu

Triggering

Trigger Modes	Auto, Normal, Single Sequence
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Measurements & Math

Automatic Measurements	25 parameter types
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Trigger System

Trigger Delay by Time	16 ns to 250 s
Trigger Delay by Events	1 to 9,999,999 events

Storage

Setup Memory	10 front-panel setups
Reference Waveform Storage	4 waveforms

Power

Power Consumption	300 W maximum
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TECHNOLOGY

Digital

APPLICATIONS

Test and Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.