

TEKTRONIX

TDS724D

The Tektronix TDS724D is a 500 MHz, 2-channel digital oscilloscope from the legacy TDS700D series. It features a maximum sample rate of 1 GS/s and Tektronix's InstaVu acquisition technology, which enables an ultra-fast waveform capture rate of up to 400,000 waveforms per second to quickly identify intermittent anomalies. Standard capabilities include a 50,000-point record length, advanced triggering, and built-in math and FFT functions.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE 488.2), VGA
Display	7-inch Color CRT (NuColor)
Warm-up Time	20 minutes (to meet warranted specifications)

Physical

Power Supply	90 to 250 VAC RMS, 45 to 440 Hz, 300 W max
Operating Temperature	+4 °C to +50 °C °C
Weight	14.1 kg kg

Vertical System

Number of Channels	2
Analog Bandwidth	500 MHz
Calculated Rise Time	700 ps
Hardware Bandwidth Limits	20 MHz, 250 MHz
Input Coupling	AC, DC, GND
Input Impedance	1 MΩ 10 pF, or 50 Ω
Input Sensitivity Range	1 mV/div to 10 V/div (1 MΩ); 1 mV/div to 1 V/div (50 Ω)
Vertical Resolution	8 bits (higher in High Resolution mode)
Vertical Position Range	±5 divisions

Horizontal System

Timebase Range	500 ps/div to 10 s/div
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Acquisition System

Maximum Sample Rate (Single Channel)	1 GS/s
Maximum Record Length (Standard)	50,000 points
Acquisition Modes	Sample, Envelope, Average, High Resolution, Peak Detect
Maximum Waveform Capture Rate	400,000 wfms/s (InstaVu mode)
Peak Detect Glitch Minimum	1 ns (at all timebase settings)

Trigger System

Trigger Modes	Auto, Normal, Single
Trigger Coupling	AC, DC, HF Rej, LF Rej, Noise Rej
Advanced Trigger Types	Edge, Video, Glitch, Runt, Slew Rate, Logic, Setup/Hold

Measurements and Math

Advanced Math	Integrate, Differentiate, FFT
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Input and Output Interfaces

Data Storage	3.5-inch 1.44 MB Floppy Drive
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Environmental

Non-operating Temperature	-22 °C to +60 °C
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Compliance

Safety Compliance	UL3111-1, CSA1010.1, EN61010-1, IEC61010-1
Electromagnetic Compatibility (EMC)	Meets Directive 89/336/EEC

Performance

Timebase Accuracy	±25 ppm over any ≥1 ms interval
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Timebase System

Timebase Delay Time Range	16 ns to 250 s
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Triggering

Supported Video Trigger Standards	NTSC, PAL, SECAM
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Power

Maximum Power Consumption	300 W
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TECHNOLOGY

Digital Phosphor / InstaVu

APPLICATIONS

General Purpose Oscilloscope

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