

TEKTRONIX

TDS3034

The Tektronix TDS3034 is a 300 MHz, 4-channel Digital Phosphor Oscilloscope (DPO) from the TDS3000 Series. It features a maximum real-time sample rate of up to 2.5 GS/s, 9-bit vertical resolution, and a full VGA color LCD display. It includes standard advanced triggering, Fast Fourier Transform (FFT) capabilities, and built-in support for active, differential, and current probes.

SPECIFICATIONS

General

Interfaces	Centronics port (Standard); RS-232, GPIB, LAN, or VGA (via optional modules)
Display	Full VGA Color LCD
User Interface	Multi-Language User Interface with QuickMenu Mode

Physical

Power Supply	100 to 240 VAC, 47 to 63 Hz; 115 VAC, 360 to 440 Hz; 75 W max
Operating Temperature	0 to +50 °C
Dimensions (W×H×D)	375 × 176 × 149 mm
Weight	3.2 kg

Vertical System

Bandwidth	300 MHz
Number of Analog Channels	4
Vertical Resolution	9-bit
Vertical Sensitivity (1 MΩ)	1 mV/div to 10 V/div
Vertical Sensitivity (50 Ω)	1 mV/div to 1 V/div
DC Gain Accuracy	± 2%
Bandwidth Limit Options	20 MHz, 150 MHz
Maximum Input Voltage (1 MΩ)	150 V RMS CAT I (300 V RMS CAT II with standard 10X probe)
Maximum Input Voltage (50 Ω)	5 V RMS (with peaks < ± 30 V)

Horizontal System

Maximum Real-Time Sample Rate	2.5 GS/s
Record Length	10,000 points per channel
Time Base Range	2 ns/div to 10 s/div
Time Base Accuracy	±20 ppm

Trigger System

Trigger Sources	CH1, CH2, CH3, CH4, AC Line
-----------------	-----------------------------

Waveform Measurements

Automatic Measurements	21
------------------------	----

Connectivity and Interfaces

Supported Probes	Active, Differential, and Current Probes (with automatic scaling and units)
------------------	---

Storage

Removable Storage	Built-in Floppy Disk Drive
-------------------	----------------------------

Input

Input Coupling	AC, DC, GND
----------------	-------------

Power

Battery Operation	Up to 2 hours with optional TDS3BAT rechargeable battery pack
Power Consumption	75 W max

Environmental

Non-operating Temperature	-40 °C to +71 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-operating Altitude	Up to 15,000 m (50,000 ft)
Operating Vibration	0.31 g RMS from 5 to 500 Hz
Non-operating Vibration	2.46 g RMS from 5 to 500 Hz
Non-operating Shock	50 g, 11 ms, half-sine

Compliance

Safety Compliance	UL3111-1, CSA1010.1, EN61010-1, IEC61010-1
Electromagnetic Compatibility (EMC)	Meets EN61326 Class A, Annex D

Performance

Waveform Capture Rate	3,600 wfms/s
Acquisition Modes	Sample, Peak Detect, Envelope, Average
Peak Detect Glitch Capture	Down to 1 ns

Display

Display Resolution	640 x 480 pixels (VGA)
--------------------	------------------------

TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

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