

TEKTRONIX

TDS644A

The Tektronix TDS644A is a 500 MHz, 4-channel digital storage oscilloscope with a maximum real-time sample rate of 2 GS/s on all channels simultaneously. It features a color display and comprehensive interface options including GPIB, RS-232, and Centronics.

SPECIFICATIONS

General

Display	Color display
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Physical

Power Supply	90 to 250 V RMS, 45 to 440 Hz, ≤300 W
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Vertical System

Number of Channels	4
Analog Bandwidth	DC to 500 MHz
Calculated Rise Time	700 ps
Input Impedance	1 MΩ or 50 Ω
Input Connectors	BNC female
Vertical Sensitivity Range	1 mV/div to 10 V/div
Vertical Resolution	8 bits
Input Coupling	AC, DC, GND
Maximum Input Voltage (1 MΩ)	400 V (DC + peak AC)
Maximum Input Voltage (50 Ω)	5 V RMS
Vertical DC Gain Accuracy	±1.5%

Horizontal System

Maximum Real-Time Sample Rate	2 GS/s (on 1 to 4 channels)
Record Length (Standard)	2K points/channel
Time/Division Range	500 ps/div to 5 s/div
Time Base Accuracy	±25 ppm

Display System

Display Size	7 inch
Display Resolution	640 x 480 pixels

Interfaces and I/O

Remote Control Interface	GPIB
External Video Output	VGA out

Triggering

Trigger Modes	Auto, Normal, Single Sequence
Trigger Types	Edge, Pulse (Glitch, Runt, Width), Logic

Measurements & Analysis

Automatic Measurements	25 parametric measurements
Math Functions	Add, Subtract, Multiply, Invert (FFT, Integrate, and Differentiate available with Option 2F)

Storage

Removable Storage	3.5-inch 1.44 MB DOS-compatible floppy disk drive
Reference Waveforms	4 (Ref 1 to Ref 4)
Saved Setups	10 front-panel setups

TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

General Purpose Electronics Test & 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.