

TEKTRONIX

TDS7054

The Tektronix TDS7054 is a 4-channel, 500 MHz Digital Phosphor Oscilloscope (DPO) in the TDS7000 series, combining a 5 GS/s real-time sample rate with FastAcq technology capable of capturing over 400,000 waveforms per second. Operating on an open Windows 2000 platform with OpenChoice software, it features a 10.4-inch XGA touch-sensitive display, TekConnect probe interface, and comprehensive triggering and serial analysis capabilities.

SPECIFICATIONS

Vertical System

Analog Channels	4
Bandwidth (-3 dB)	500 MHz
Calculated Rise Time (10% to 90%)	700 ps
Input Coupling	DC, AC, GND
Input Sensitivity Range	1 mV/div to 10 V/div (1 M Ω), 1 mV/div to 1 V/div (50 Ω)
Bandwidth Limiters	20 MHz, 250 MHz

Acquisition System

Maximum Waveform Capture Rate	> 400,000 wfms/s (FastAcq mode)
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Trigger System

Trigger Modes	Auto, Normal, Single
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Display System

Display Type	10.4 in (264 mm) Color Liquid Crystal Display (TFT)
Touch Screen Interface	Standard touch-sensitive screen
Persistence Modes	Off, Variable Persistence, Infinite Persistence

Connectivity & Input/Output Interfaces

GPIO Interface	IEEE-488.2 standard interface
Ethernet Port	RJ-45 connector, 10/100Base-T
Serial Port	DB-9 male RS-232-C port
Parallel Port	Centronics IEEE 1284 DB-25 connector
Probe Interface	TekProbe BNC

Power Supply

Line Frequency Range	47 to 63 Hz (100 to 240 V), 360 to 440 Hz (100 to 132 V)
Maximum Power Consumption	< 600 W

Environmental & Safety

Non-Operating Temperature Range	-22 °C to +60 °C
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Power & Electrical

AC Line Voltage Range	100 to 240 V AC RMS ±10%
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System & Storage

Floppy Drive	3.5 in 1.44 MB floppy drive
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Inputs & Outputs

Auxiliary Output	BNC output (Main Trigger out or Pass/Fail)
PS/2 Ports	2 (1 keyboard, 1 mouse)

Physical & Environmental

Operating Altitude	3,000 m (9,843 ft)
Non-Operating Altitude	12,192 m (40,000 ft)
Operating Humidity	20% to 80% RH, non-condensing

Waveform Analysis

Automated Measurements	53
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Compliance

Safety Certifications	UL 3111-1, CSA 1010.1, EN 61010-1, IEC 61010-1
EMC Compliance	EN 61326 Class A, Council Directive 89/336/EEC

TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

APPLICATIONS

Signal Integrity Analysis, Embedded Systems Design, High-Speed Serial Bus Debug, Telecom Compliance Testing

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