

TEKTRONIX

DPO7354

The Tektronix DPO7354 is a high-performance Digital Phosphor Oscilloscope (DPO) belonging to the DPO7000 Series. Designed for rigorous signal integrity applications, it provides 3.5 GHz of analog bandwidth, highly flexible Pinpoint triggering, and advanced analysis software running on a Windows XP platform. It offers an exceptionally fast waveform capture rate and a large, high-resolution touch screen for intuitive operation.

SPECIFICATIONS

General

Interfaces	USB 2.0, LAN (10/100/1000), GPIB, RS-232, XGA Video Output
Display	12.1-inch XGA (1024 x 768) Touch Screen

Physical

Power Supply	100 to 240 V $\pm 10\%$ (47 to 66 Hz), 115 V $\pm 10\%$ (360 to 440 Hz); 550 W maximum
Dimensions (W×H×D)	451 x 292 x 265 mm
Weight	15 kg

Vertical System

Number of Analog Channels	4
Analog Bandwidth	3.5 GHz
Input Impedance	50 $\Omega \pm 1\%$, 1 M $\Omega \pm 1\%$
Vertical Resolution	8 bits (>11 bits with HiRes)
Input Coupling	AC, DC, GND
Vertical Sensitivity (50 Ω)	1 mV/div to 1 V/div
Vertical Sensitivity (1 M Ω)	1 mV/div to 10 V/div
DC Gain Accuracy	$\pm 1.5\%$ (with offset set to 0 V)
Rise Time (10% to 90%, 50 Ω)	115 ps (typical)
Rise Time (20% to 80%, 50 Ω)	80 ps (typical)
Hardware Bandwidth Limits	250 MHz or 20 MHz
Maximum Input Voltage (50 Ω)	5 VRMS, with peaks $\leq \pm 24$ V
Maximum Input Voltage (1 M Ω)	± 150 V CAT I, derate at 20 dB/decade to 9 VRMS above 200 kHz
Channel-to-Channel Isolation	$\geq 100:1$ at ≤ 100 MHz, $\geq 30:1$ at > 100 MHz up to rated bandwidth

Horizontal System

Maximum Sample Rate (1 Channel)	40 GS/s
Maximum Sample Rate (4 Channels)	10 GS/s
Maximum Record Length	Up to 400 Megasamples (option dependent)
Timebase Accuracy	±2.5 ppm
Deskew Range	±75 ns

Acquisition System

Maximum Waveform Capture Rate	>250,000 wfms/s
Acquisition Modes	Sample, Peak Detect, Averaging, Envelope, Hi-Res, FastAcq, Roll

Triggering System

Advanced Trigger Types	Pinpoint™ Triggering (over 1400 combinations)
Low-Speed Serial Protocol Triggering	I2C, SPI, RS-232, CAN

Display System

Display Type	Color LCD Touch Screen
Display Size	12.1 inches
Display Resolution	1024 x 768 pixels (XGA)

Computer System and Storage

Operating System	Microsoft Windows XP
Standard Software	OpenChoice® Software, MyScope®

Waveform Measurements and Analysis

Optional Analysis Software	Ethernet, USB 2.0 Compliance, Jitter, Timing, Eye Diagram, Power, DDR Memory, CAN, LIN
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Environmental

Non-Operating Temperature	-40 °C to +71 °C
Operating Altitude	Up to 3,000 m (9,843 ft)
Non-Operating Altitude	Up to 12,192 m (40,000 ft)
Operating Humidity	5% to 95% RH ($\leq +30$ °C), 5% to 45% RH ($> +30$ °C to $+50$ °C)
Non-Operating Humidity	5% to 95% RH ($\leq +30$ °C), 5% to 45% RH ($> +30$ °C to $+60$ °C)

Trigger System

Trigger Jitter (RMS)	1.5 ps RMS (typical)
Trigger Coupling	DC, AC, HF Rej, LF Rej, Noise Rej
Holdoff Range	250 ns to 12 s

Power

Power Consumption	550 W maximum
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Compliance

Safety Approvals

UL 61010-1, CSA C22.2 No. 61010-1, EN 61010-1

TECHNOLOGY

Digital Phosphor

APPLICATIONS

Serial and digital design, signal integrity verification, characterization, debugging, compliance testing, and network design.

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