Monochrome InstaVu™ Acquisition Oscilloscope

TDS 540C

This product is discontinued.

Characteristics

Vertical System

Bandwidth - DC to 500 MHz[*1].

Input Channels - TDS 540C: 4.

Maximum Real-Time Sample Rate -
TDS 540C:

1 channel: 2 GS/s.

2 channels: 1 GS/s.

3 and 4 channels: 500 MS/s.

Equivalent-Time Sample Rate - 100 GS/s max.

Max Sample-Rate Window - 4 ms.

Sensitivity - 1 mV to 10 V/div (1 mV to 1 V/div in 50 Ohm mode).

DC Gain Accuracy - ± 1%.

Vertical Resolution - 8 bits (256 levels over 10.25 div), >13 bits with HiRes, 11 bits with averaging.

Input Impedance - 1 megaohm in parallel with 10 pF or 50 Ohm (AC and DC coupling).

Maximum Input Voltage 300V CAT II - ± 400 V peak.

[*1] >/= 2 mV/div in 50 Ohm mode.

Time Base System

Time Basesm - Main, Delayed.

Time/Div Range - 500 ps to 10 s/div.
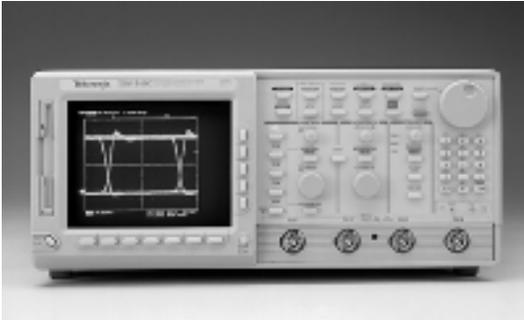
Time Base Accuracy - ± 25 ppm over any interval >/= 1 ms.

Acquisition System

Acquisition Modes - InstaVu^{TM}, Peak Detect, Sample, Single-Sequence, Envelope, Average, HiRes, FastFrame^{TM}.

Record Length - 50 K/channel standard. Up to 500K on one channel optional.

TRIGGER SYSTEM

Trigger Types - Edge, Logic (pattern, state, setup/hold), Pulse (glitch, runt, width, slew rate, timeout).

Measurement System

Automatic Measurements - 29 (on up to 500 K waveform or in gated region).

Measurement Statistics - Minimum, maximum, mean, standard deviation.

Cursor Measurements - Absolute and delta: volts, time, and frequency.

Advanced Waveform Functions - FFT (optional), Limit testing, Waveform histograms.

Storage

Floppy Drive - 3.5-in. DOS compatible.

Display System

Monitor - 7-in. monochrome 640 X 480 VGA.

Outputs

VGA Out - Monochrome.

Computer Interface - GPIB.

Hardcopy Ports - GPIB, RS-232, Centronics.

Hardcopy Formats - Epson, Thinkjet, Deskjet, Laserjet, PostScript, TIFF, PCX, BMP, DPU411/412, RLE, HPGL, Interleaf.

Power

90 to 250 V RMS, 45 to 440 Hz, 300 W maximum.

Physical Characteristics

Dimensions	mm	in.
Height	193	7.6
Width	445	17.5
Depth	432	17
Weight	**kg**	**lb.**
Net	14.1	31

Safety Certification

UL 3111-1, CSA-22.2 No. 1010.1.

GPIB **IEEE-488** Product(s) complies with IEEE Standard 488.1-1987, and with Tektronix Standard Codes and Formats.

ISO 9001 Tektronix Measurement products are manufactured in ISO registered facilities.

CE

49A-10733-2p80, 05/1998, 09/01/1999