Disk Drive Measurement Software

▶ TDSDDM2

▶ Features & Benefits

Your TDS7000 Series Oscilloscope can Perform Disk Drive Measurements without External Equipment

Installs Inside the TDS Oscilloscope

Provided on Floppy Disk for Easy Customer Installation

User-friendly Microsoft® Windows® GUI

High-resolution Measurements can be Made on One Channel at the Highest Sample Rate with Trigger Input from Multiple Channels

Comprehensive Statistical Measurements – Mean, Min, Max, Std Dev, SNR and More for Easy Characterization of Signals

Snapshot Display of Multiple Parameters for Detailed Waveform Information

SNR and NLTS Measurements Work for Signal-to-noise Ratios of 0 dB and Below

Auto Configures Trigger Inputs for Index, Sector and Read Channel for Easy Set-up

Programmable Digital Filters

Thermal Asperity Information Provided for Quick Problem Detection

Track Profile Displays Measurements from Each Sector as a Function of Sector Number

On-line Help Text Provides Information About Each Measurement

Part of a Complete Solution for Disk Drive Measurements from Tektronix – High-bandwidth Differential Probes, SMT Probes, Arbitrary Waveform Generators, etc.

Offers Full Measurement Automation and Control Through GPIB

▶ Applications

IDEMA Measurements Including TAA, PW50, Overwrite, Resolution and Asymmetry

PRML Measurements Including Autocorrelation NLTS and SNR
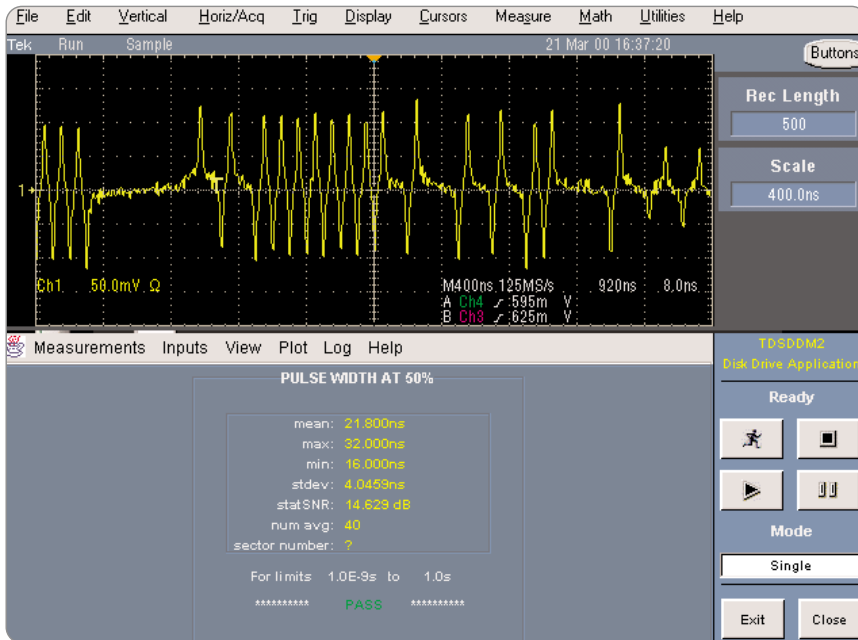
User-installed, Oscilloscope-resident Disk Drive Measurement Package

Design, manufacturing and failure analysis engineers at disk drive companies; silicon vendors who design read-channel components; read/write head and media manufacturers – all desire to make measurements that are specific to their industry. Performing measurements on disk drive signals that comply with the IDEMA standards is crucial to meeting their objectives.

Tektronix offers a solution that provides custom disk drive measurements for the industry leading TDS oscilloscopes. Peak detect measurements include track average amplitude positive (TAA+), track average amplitude negative (TAA–), track average amplitude total (TAA), 50% pulse width positive (PW50+), 50% pulse width negative (PW50–), 50% pulse width (PW50), overwrite and resolution.

Timing measurements include time – trough-to-peak, and time – peak-to-trough. PRML measurements include auto-correlation, non-linear transition shift and signal-to-noise ratio. Voltage and time asymmetry measurements are available for MR head designers. Measurement statistics are also available. Two programmable digital filters allow adjustable cutoff frequency, slope and choice of highpass or lowpass.

TDSDDM2 Disk Drive Measurement Software is a software package from Tektronix that delivers industry-specific disk drive measurements. It comes on floppy disks, easily installed into a TDS7000 series oscilloscope and doesn't require any external processing or connections. After installation, the application is accessible from the front panel.

Tektronix

Disk Drive Measurement Software

▶ TDSDDM2

▶ Characteristics

Tektronix Digital Oscilloscopes Supported

TDS7000 Series Oscilloscopes.

▶ Ordering Information

TDSDDM2

Disk Drive Measurement Software for TDS7000 Oscilloscopes.

Includes: Software on 3.5 in. disks, Manual.

TDSDDM2 Recommended Accessories

Arbitrary Waveform Generator – AWG610 Arbitrary Waveform Generator.

High-bandwidth Differential Probe – P7330 Differential Probe.

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