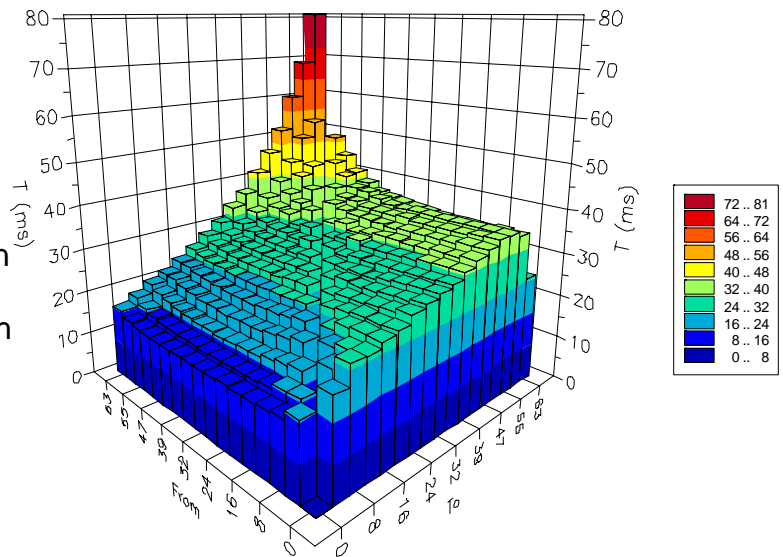


Westar Gray-Level Response Time Measurement Package

Optimize LCDs for video performance!

Obtain all gray-level data automatically!

The Gray-Level Response Time measurement package enables rapid measurement of gray-level response time of AMLCD displays. The package consists of Westar's gray-level response time measurement software combined with the TRD-100A Temporal Response Detector, and T-Drive™ universal tester / video pattern generator. The GLRT software is easy to use and provides automated sweeps through a user specified number of gray-levels. The results are presented as a 3-D graph and as a table of numeric response time values. Response times as short as 100us can be measured with the standard instrument.



Key Features

- **Gray-Level Measurements for every gray-level!** – The GLRT package is capable of measuring single gray-level switching times. Collect data on every transition automatically.
- **Reduce Test Time** – Reduces test labor and test time!
- **Easy to Use** – The GLRT software provides a streamlined easy to use GUI.
- **Increased Accuracy** – Eliminate errors over manual measurement methods.
- **Motion Picture Response Time** – The software can determine the perceptual response time parameter N-BET (normalized blur edge time) for each gray-level combination on standard hold-type AMLCD displays.
- **Flicker Measurements** – The system also measures display flicker and reports flicker frequency and flicker intensity.

GLRT Package Contents:

- Gray-Level Response Time software and data acquisition module
- TRD-100A response time measurement instrument
- T-Drive™ universal tester / video pattern generator

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GLRT Specification Summary:

Component	Parameter	Specification
Software	Reports	3-D gray level graph (surface or bar graph)
	Data export format	Comma delimited text file
	Gray-level controls	User selectable gray-level range, and number of measurements within range
	Filtering	User selectable
	Response time measurement thresholds	User selectable (typically 10% and 90%)
Data Acquisition	Sample rate	100KHz
	Resolution	12-bit
TRD-100A	Detector Type	Photo multiplier tube (PMT)
	Sensor response time	40us
	Sensor bandwidth	20KHz
	Color Filter	Photopic
	Gain control	RS-232 serial interface
T-Drive	Video interfaces	LVDS, parallel (std) TMDS, & analog (optional)
	Blink pattern	User specified gray-levels
	Blink rate	User specified
	Blink sync output	TTL
	Remote interface	USB
PC Requirements (PC not included)	Operating system	Windows 2000, Windows XP
	Monitor	1024x768
	Processor	1 GHz Pentium
	Memory	256Kb
	Hard drive	500 Mb free space
	I/O Ports	2- USB, 1-serial
Utilities	System Power	120 VAC, 50-60 Hz;



Westar TRD-100A



Westar T-Drive