

Affordable Display Measurement Services

From the leaders in Display Quality AssuranceSM

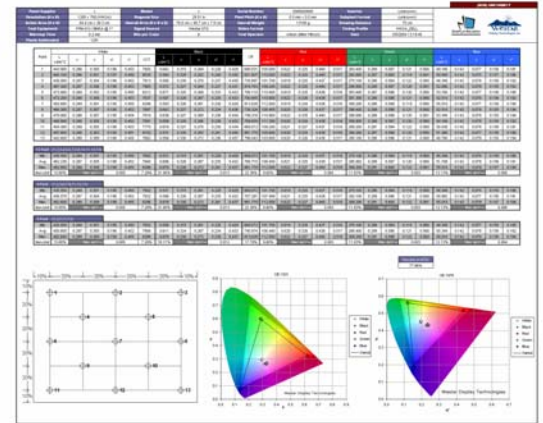


The price tag for setting up, equipping, and staffing a display test and measurement lab can be staggering. If you have display measurement requirements but lack the test facility or expertise, consider outsourcing your test program to Westar Display Technologies.

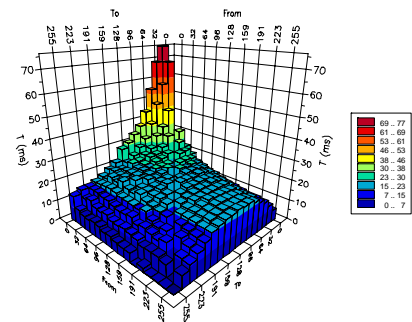
Our state-of-the-art display laboratories are fully equipped with industry-standard Westar FPD Performance Measurement (FPM) Systems, high-end photometers and spectroradiometers, and a stable of display drive equipment including our own T-Drive™ Universal TFT Tester.

Staffed by our experienced display engineers and measurement team, Westar's display measurement laboratory stands ready to help your display products and programs succeed with professional, comprehensive, and quality-certified electro-optical characterization services.

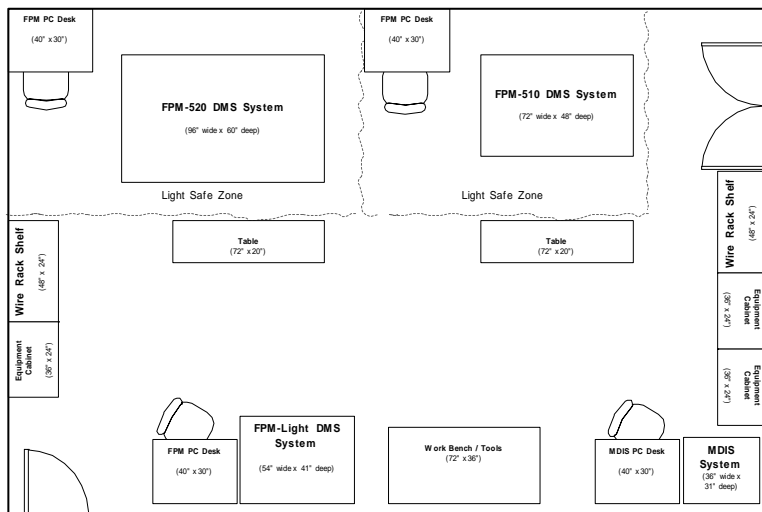
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Industry Standard Report Formats



Gray Level Response Time Testing



Westar's Display Measurement Laboratory Layout



Westar FPM-520 FPD Performance Measurement System – just one of several test assets available

When does outsourcing display measurements make sense?

- **Panel supplier quality** – When you're a panel procurement manager and quality is all over the map. You need to qualify new suppliers and ensure your current suppliers meet your stringent standards.
- **Design verification** – When your R&D team just produced the first prototype of a new display...is it ready for production? Or, when a late engineering change is needed...will it meet spec? Your customers want to know.
- **Pre- and post-environmental testing** – When tough applications require tough displays – you need to know if your display can take the abuse of harsh environmental testing.
- **Competitive Analysis** – When industry journals just slammed your new display because of poor viewing angle and video response. If you only knew how you stacked up with the competition before the displays were shipped.

Some of the services we offer:

- **Pre-test Consultation** – Before you spend a dime, call us to discuss your requirements – we'll advise you how best to proceed, what's important, and how we can help.
- **Display Test Integration** – TFT panel, notebook, monitor, or TV – we can drive it right and get it ready for test with fixturing and cabling.
- **VESA FPDM Standard Testing** – Suite of basic measurements, reflection testing, response time & flicker – we've done it all.
- **TCO'99/'03 Testing** – Viewing angle dependence, front frame gloss, and more!
- **Custom Testing** – Special tests and modifications to standard procedures are not a problem.
- **Data Analysis Service** – Too much data? We'll help you sort through the raw data and distill it into meaningful figures of merit and quality factors.

Industry Standard Test Suites:

VESA FPDM 2.0 Tests	
SBM	Suite of Basic Measurements
301	Setup of Display and Equipment
302	Center Measurements of Full Screen
303-4	Shadowing
304	Box Pattern Measurements
305	Temporal Performance
306	Uniformity
307	Viewing Angle Performance
308	Reflection
401	Power Consumption & Supply
402	Efficiencies

ISO 13406-2 Tests	
	Contrast Uniformity Difference
	Display Luminance
	Contrast
	Luminance Balance
	Reflections
	Luminance Uniformity
	Image Formation Time
	Absolute Luminance Encoding
	Temporal Instability (flicker)
	Default Color Set
	Color Differences / Spectral Ext.

TCO'99/'03 Tests	
	Luminance Level
	Luminance Uniformity
	Luminance Angular Dependence
	Contrast Angular Dependence
	Front Frame Gloss
	Periodic Luminance Variation

MIL-L-85762A Tests	
	Diffuse Reflection 4.8.16.2.3.1
	Specular Reflection 4.8.16.2.3.2
	Design Eye Point Measurements

Need more information?

Call our engineering hotline at **636-300-5115** to discuss your display test program and needs.