

Display Measurement Services

from the leaders in Display Quality Assurance

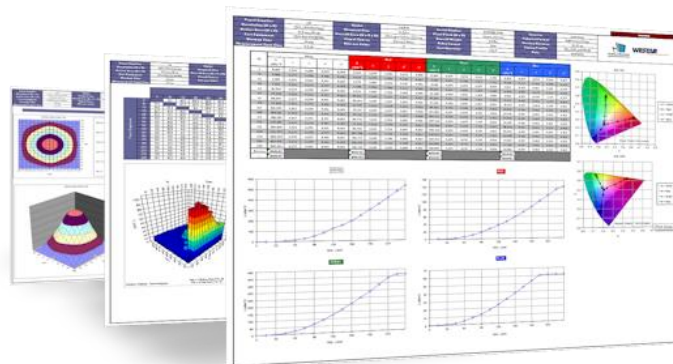
Overview

The price tag for setting up, equipping, and staffing a display test and measurement lab can be staggering. If you have display optical measurement requirements but don't have the equipment or expertise, you can expand your capabilities with Westar Display Technologies' display measurement services.



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 T-Drive Series LCD Testers.

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.



Where our services can help

- **Panel supplier quality assessment**
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 standards.
- **Design verification**
When your R&D team just produced the first prototype of a new display and you want to see if it is ready for production. Or, when a late engineering change is needed and you want to know if your product will meet spec.
- **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.
- **Industry standard display test suites**
Suite of basic measurements, reflection testing, response time and flicker – we've done it all.
- **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 insights and quality factors.

Industry Standard Test Suites (not exhaustive)

ICDM IDMS 1.1	
4:	Visual Assessment
5:	Fundamental Measurements
6:	Gray & Color-Scale Measurements
7:	Spatial Measurements
8:	Uniformity Measurements
9:	Viewing-angle Measurements
10:	Temporal Measurements
11:	Reflection & Transmission Measurements
12:	Motion-Artifact Measurements
17:	3D & Stereoscopic Displays
TCO '99/'03/'05	
B.2.3.1:	Luminance Level
B.2.3.2:	Luminance Uniformity
B.2.3.3:	Luminance Uniformity – Angular Dependence
B.2.4.2:	Luminance Contrast – Angular Dependence
B.2.6.1:	Correlated Color Temperature
B.2.6.2:	Color Uniformity
B.2.6.3:	RGB Settings
B.2.6.4:	Color Uniformity – Angular Dependence
B.2.6.5:	Color Grayscale Linearity
2.1:	Periodic Luminance Variation
ISO 13406-2	
8.7.3:	Design Screen Illuminance
8.7.5:	Chromaticity Uniformity Difference
8.7.14:	Display Luminance
8.7.15:	Contrast
8.7.16:	Luminance Balance
8.7.19:	Luminance Uniformity
8.7.21:	Image Formation Time
8.7.22:	Absolute Luminance Encoding
8.7.24:	Temporal Instability (flicker)
8.7.25:	Default Color Set
8.7.27:	Color Differences
8.7.28:	Spectrally Extreme Colors

SPWG 3.5	
6.1:	Equipment Set-Up
6.2:	Luminance Measurements
6.3:	Contrast Ratio
6.4:	White Uniformity
6.5:	Color Gamut
6.6:	Color Gamma
6.7:	Viewing Angle Measurements
6.8:	Response Time
6.9:	Residual Image
7.0:	Power Measurements
MIL-L-85762A / MIL-HDBK-87213	
4.8.16.2.3.1	Diffuse Reflection
4.8.16.2.3.2	Specular Reflection Design Eye Point Measurements
Medical	
AAPM TG18 and TG270. Contact us for a full list of medical display tests we offer.	
Automotive	
SAE J1757-1, SAE J1757-2, ISO 15008, ISO 16505, ISO 4513. Contact us for a full list of automotive display tests.	
Custom Tests	
We can design custom test procedures to meet your requirements. Contact us to find out more.	

Contact Us to Get Started

Call us for measurement services pricing. We will work with you one-on-one to deliver a test report that meets your unique requirements!

+1 (636) 300-5115