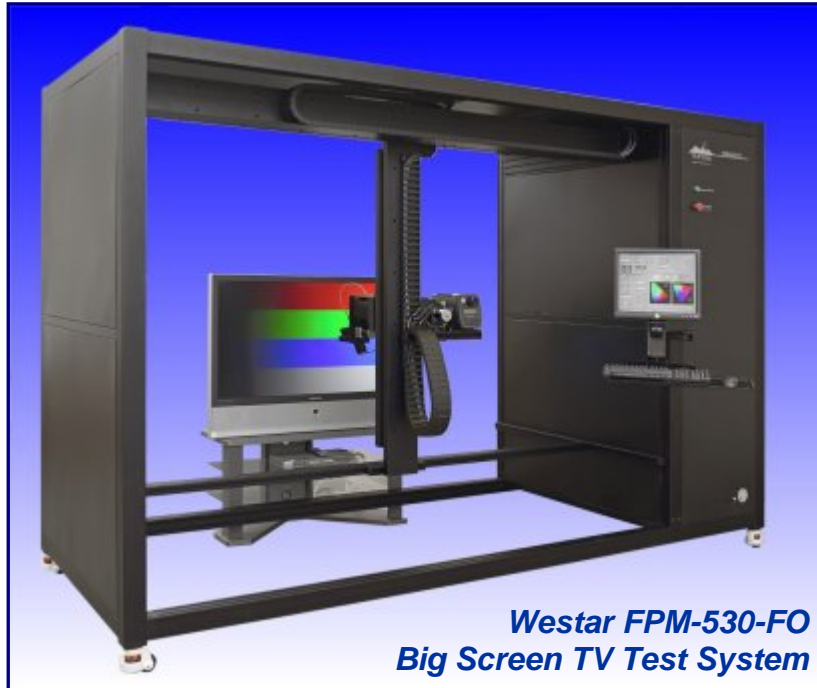
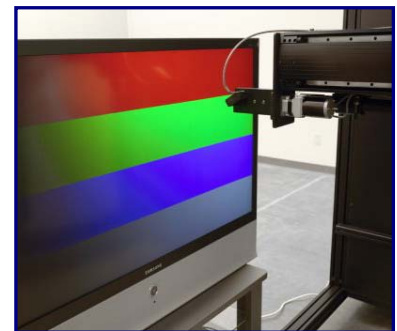


Westar's FPM-530-FO System

Complete electro-optical testing for Big-Screen TVs and Panels



**Westar FPM-530-FO
Big Screen TV Test System**



- **Test Modules and Finished Products** – Measure uniformity, contrast ratio, viewing angle, shadowing, chromaticity, color gamut, response time, flicker, gamma, surface reflections, power consumption, and more!
- **Compare TV Technologies** – Test AMLCD, Plasma, and Rear Projection TVs. Panels, modules, and finished products are all supported on the “roll-up” TV fixture and universal optical test platform.
- **ViewPoint™ software** – Includes the graphical Manual Control Interface to all system assets and fully automatic testing with National Instruments' **TestStand™** and custom Active X test objects.
- **On-site set-up and training** – Our engineers provide on-site system set-up, alignment, classroom and laboratory training with each delivery. We ensure your team gets the most from the FPM System.

In the increasingly competitive big-screen TV market, efficient and accurate optical testing is more important than ever. As AMLCD, Plasma, and Rear Projection technologies battle it out, Westar display measurement systems help referee the contest and separate fact from fiction.

Our new FPM-530-FO solves the big-screen TV test challenges through innovative design and world class software and support.

Need more information?

Call our engineering hotline at **636-300-5102** to discuss your unique display test & measurement requirements and let us configure the optimal FPM System for you!

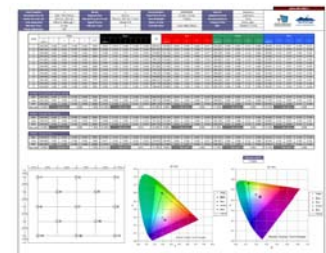
FPM-530-FO System Specification Summary:

FPM-530-FO	System Specifications
Maximum DUT Size	84" (213 cm) Diagonal
Motion Base	Five-Axis: X, Y, Z, Inclination, and Azimuth
XYZ Accuracy & Precision	± 1mm, 0.2 mm
Gimbal Range, Acc., Prec.	±85°, ± 0.5°, 0.1°
Optical Instruments Included	B&W Tek BTC611E Spectroradiometer (Back-Thinned CCD, F/O coupled) Westar TRD-100A (PMT, Direct view)
Optional Instrument Interfaces	BM-5A, BM-7, SR-2, SR-3, CS-1000A, PR-880A, PR-650, PR-705, PR-715 OL-770, OL-750, CAS-140B, IS-320
Video Signal Generators Supported	Westar T-Drive, Astro VG Series, Quantum Data, Leader Technologies
Fixturing Options	Module or Finished TV Product
Fiber Optic Probe	~10mm fixed spot size, 20 cm fixed working distance
Safety Features	Emergency Power Off / Panel Protection Sensor
System Size	Base (floor plan): 3.3m wide x 1.4m deep. Height: 2.3m
System Weight	~800 lbs. (363 kg)
System Power	120 VAC / 60 Hz / 20 Amps

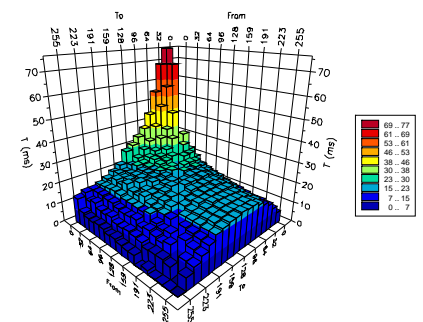
1. Specifications subject to change
2. DUT – Display Under Test. May be a display component, module, sub-assembly, or finished television product.
3. Optical Instrument is fiber-optically coupled to the 2-axis fiber optic probe gimbal.

FPM-530-FO Test Capabilities:

FPM-530-FO	Test Capability
Luminance & CR Uniformity	5 / 9 / 13 Point Uniformity or User Programmable
Color Uniformity	5 / 9 / 13 Point Uniformity or User Programmable
Gray Scale & Gamma	Gray level vs. Luminance and Color Coordinates
Color Gamut	Absolute (x,y), (u',v') and Percentage NTSC
Gray Level Response Time	User Programmable gray level transitions
Flicker	Dominant Flicker Component or at selected frequency
Power Consumption	AC or DC power measurements & Luminance Efficiency
Viewing Angle	Luminance and Color Coordinates across viewing cone
Shadowing	Crosstalk measurements per industry standard methods
Standard Test Suites	VESA/ICDM FPDM 2.0 / TCO'99/'03/'05 / Dell VSQ



Industry Standard TV Test Report Formats



Gray Level Response Time Testing