

M7000

Auto I-V-L Test System

Test Systems On Demands
www.mcscience.com

Automatic Test of Various Optical Characteristics of Display Devices

The M7000 Auto I-V-L Test System is for multi-channel testing of display devices with a common optical detector such as spectroradiometer or colorimeter which changes its measurement position automatically by 3-axis positioner. Test items cover wide range of display testing area, not only the basic display device characteristics, but also their long-term variation upon time including lifetime measurement. The system has three sub-models based on power driving methods, PMX for unit cell device and PMOLED panel, AMX for AMOLED panel, and MDX for OLED module with driver IC.

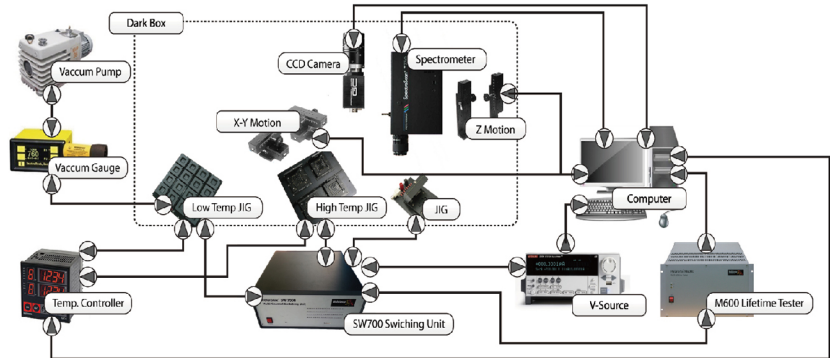


- Multi-Channel I-V-L & Lifetime Test
- Optical Detector Auto-Align & Auto-Focusing
- Unit Cell / AM & PM Panel / Module
- Individual Temperature Control
- Luminance / Color / Spectrum Measurement
- Luminous / Power / Quantum Efficiency
- Capacitance & Impedance Measurement
- View Angle
- Image Sticking



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System Configuration



System Components



System Specification

Product Model	M7000 Auto I-V-L Test System			
Standard Model	PMX : Cell / AMX : Panel / MDX : Moduel			
System Configuration	Lifetime Tester, Driving Unit, JIG, Spectroradiometer, XYZ Motion Stage, Test Software			
Channel	Standard 32ch			User Selectable
Motion Stage	Type	XYZ Auto Control Linear Motion (User Option : Ration Auto Motion for Viewing Angle Measurement)		
	Stroke	X : 1,000mm, Y : 1,000mm, Z : 300mm		
	Resolution	±0.1mm		
	Vision	CCD Camera for Alignment and Focusing		
Driving Source	Model	PMX	AMX	MDX
	Type	Lifetime Tester & SMU	Panel Pattern Generator	Module Pattern Generator
	Operating Mode	Simple Power (2 Probe/4 Probe)	Main Power, Sub Power, Signal	Display Interface (RGB, LVDS, MIPI)
	Voltage Range	Max. 20V	Max. 20V	Max. 20V
	Current Range	Max. 1A	Max. 1A	Max. 1A
Optical Unit	Type	Colorimeter / Spectroradiometer		User Selectable
	Wavelength Range	380nm ~ 780nm		User Selectable
User Option	Thermostation, Viewing Angle, Impedance Measurement, Flexible Device			
Measurement Time	Motion Movement Time + Vision Process Time + Measurement Time			
Measuremnt Item	Time, Voltage, Current, Luminance, Efficiency, CCT, CRI, Chromaticity, Spectrum, Temperature			
PC Interface	TCP/IP, RS-232, USB2.0			