

M7000

Electrical, Optical & Thermal
Imaging & Test Systems

Auto I-V-L Test System

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 standards, 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

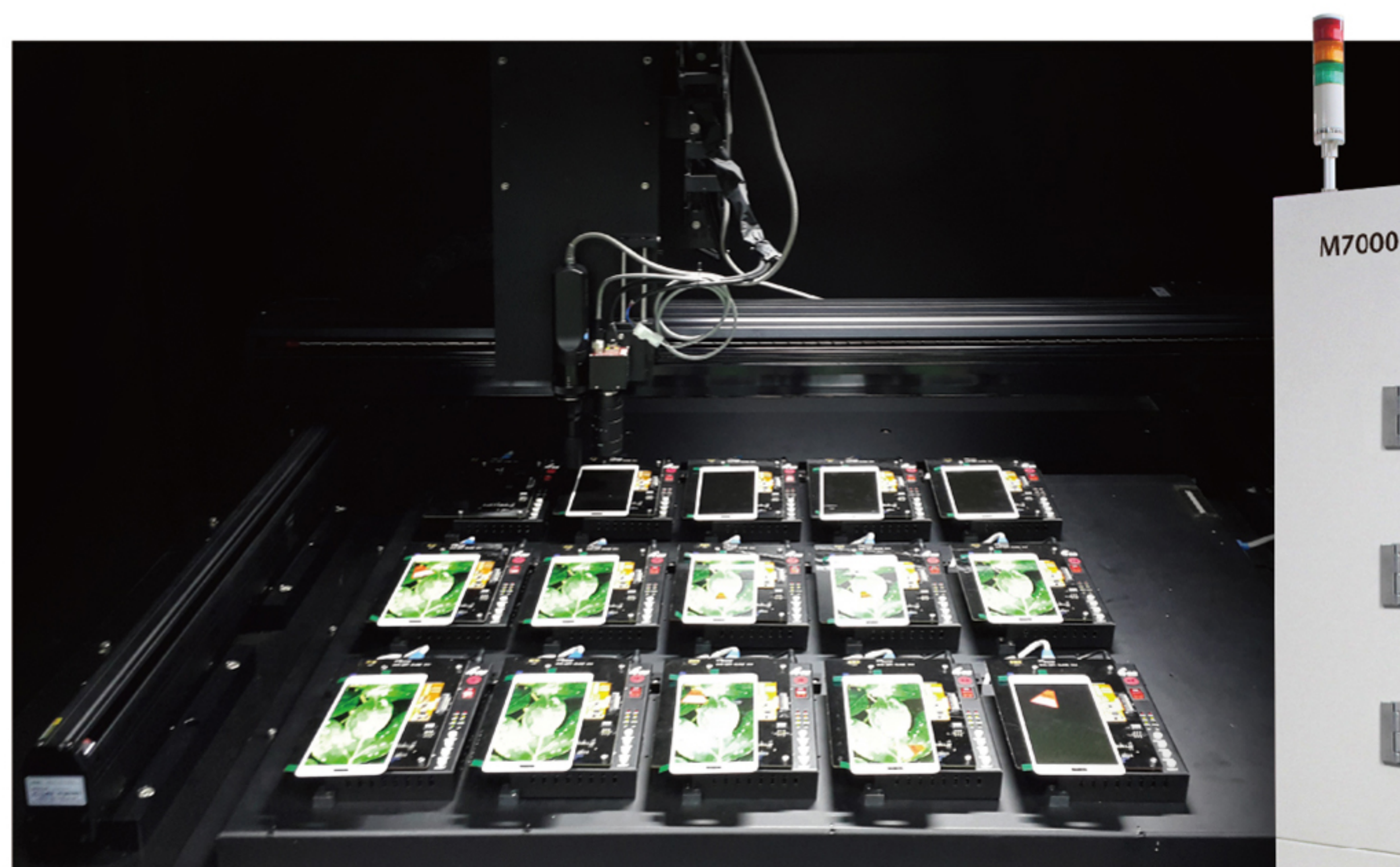
Automation

I-V-L

Spectrum

Color

Lifetime



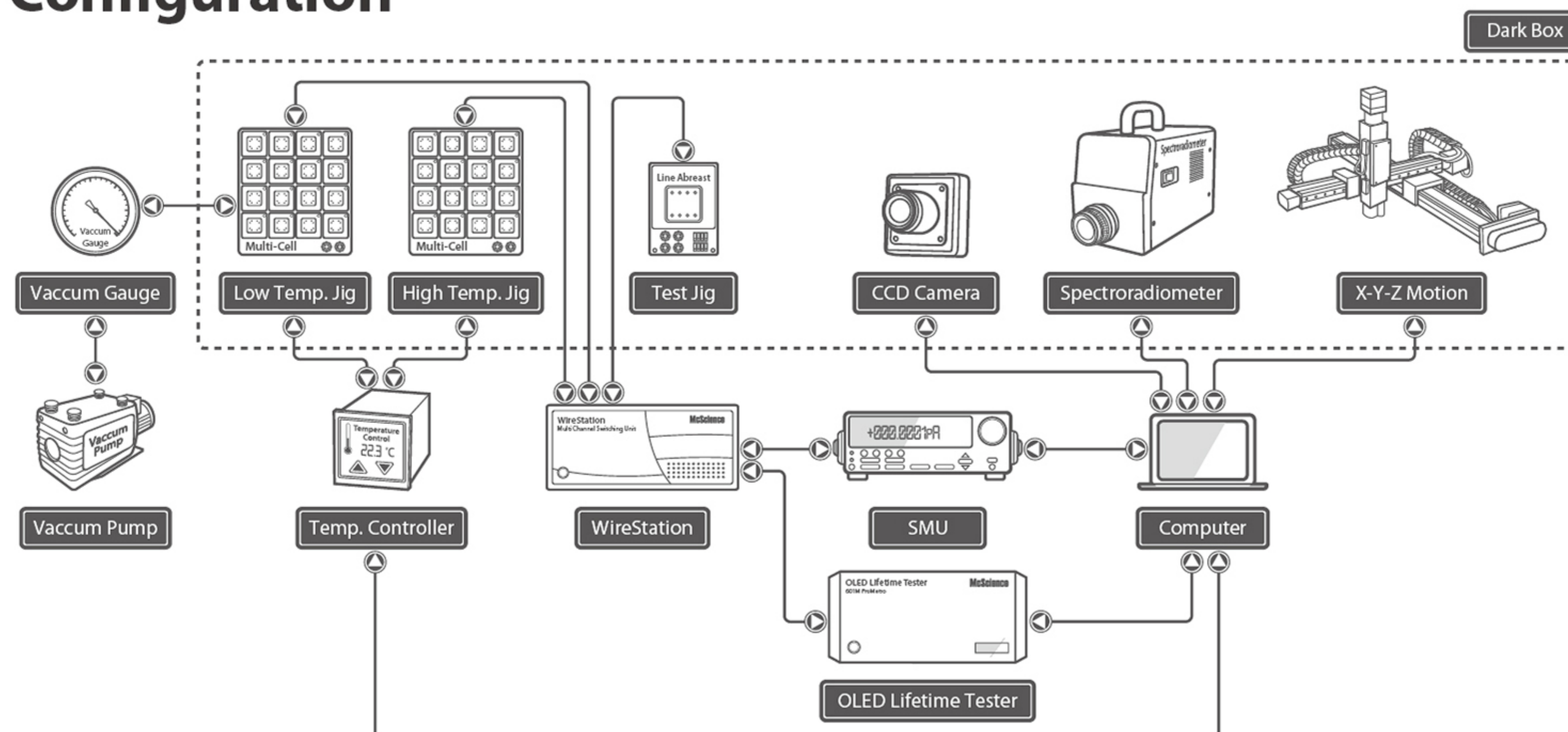
Unit Cell / Panel / Module
Multi-Channel I-V-L & Lifetime Test
Luminance / Color / Spectrum Measurement
Current / Power / Quantum Efficiency
Auto-Align & Auto-Focusing Control
Individual Temperature Control
Impedance Measurement
View Angle Measurement
Image Sticking Measurement



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System Configuration



System Components



System Specification

Product Name		M7000 Auto I-V-L Test System		
Capacity		32ch / Unit (Depends on Sample Size)		
Motion Stage	Type	XYZ Auto Control Linear Motion (User Option : Rotation 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 & SMU	Module Pattern Generator & SMU
	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		
	Wavelength Range	380nm ~ 780nm		
User Option		Thermostation, Viewing Angle, Impedance Measurement, Flexible Device		
Measurement Item		Time, Voltage, Current, Luminance, Efficiency, CCT, CRI, Chromaticity, Spectrum, Temperature		
PC Interface		TCP/IP, RS-232, USB2.0		