

M3000

OLED Parameter Test System

Test Systems On Demands
www.mcscience.com

All-in-one OLED Cell Characterization, Compact, Omnibus, and Easy to Use.

The M3000 OLED Parameter Test System consists of basically two major test components: M131 OLED Parameter Tester for electrical measurement and Qbism® HEXA colorimeter or LUMO spectroradiometer series for optical measurement. Without bulky environmental facility, this compact test system carries out multiple tests in user-programmed automatic sequence. Test items for OLED cell covers I-V-L characteristics, C-V characteristics, impedance measurement, transient analysis, and optionally simultaneous view angle measurement as well as temperature dependence using ThermoStation®, and various device parameters can be extracted from a series of measurements and recorded as metadata.



I-V-L Measurement

Luminescence / Color / Spectrum Measurement

Luminous / Power / Quantum Efficiency

Capacitance Measurement

Frequency Response Analysis

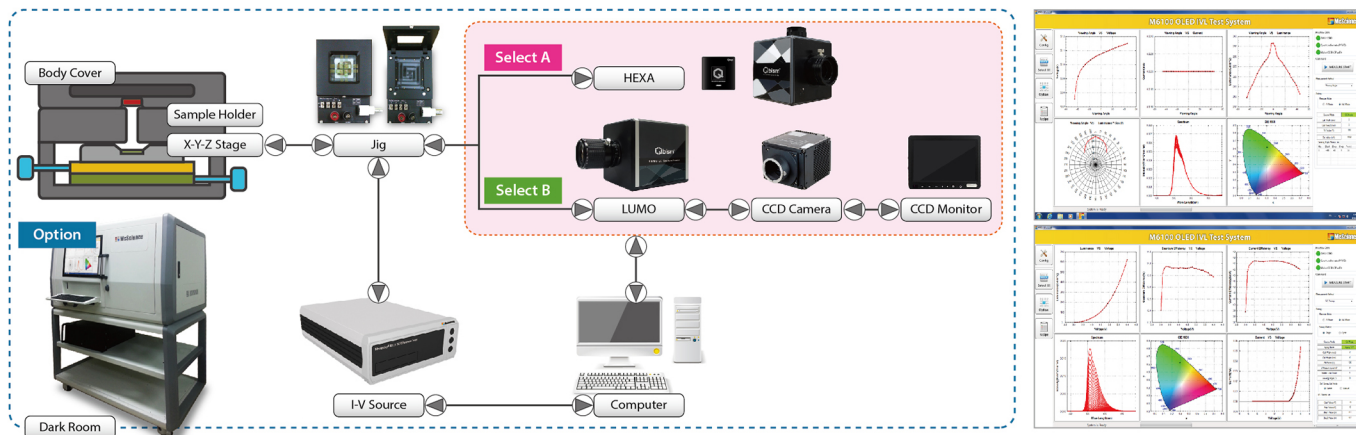
View Angle Measurement

Temperature Control

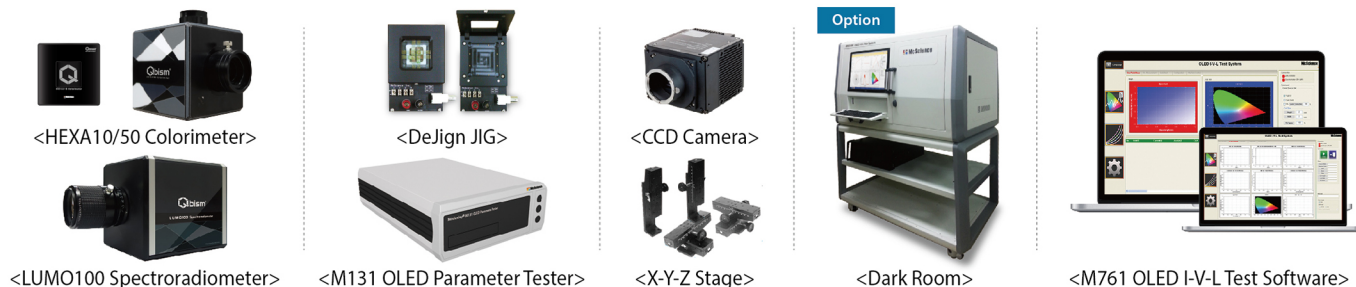


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System Configuration



System Components



System Specification

Product Model		M3000 OLED Parameter Test System			
System Configuration		I-V Source Measure Unit, JIG and Frame(Drawer Type), I-V-L Test Software, Temperature/View Angle			
Source	Mode	DC, Sweep, Pulse, Sine, Arbitrary		Photodiode	150mA, 500uA
	Voltage Range	±30V, ±3±, ±300mV		Interface(with HEXA)	Digital Communication(I2C)
	Measurement Range	30V, 3V, 300mV, 30mV(DC Canceling)		Temperature Measurement	Thermocouple 1CH
	Current Range	500mA, 50mA, 5mA, 500uA, 50uA, 5uA		Output/Measurement Port	I+, I-, V+, V-, Guard, Gnd
Luminance	Range	10~100,000 cd/m²(HEXA), 1~100,000 cd/m²(LUMO)			
	Accuracy	±4%(@10.0~100,000cd/m²), ±3%(@1~100,000cd/m²)			
Chromaticity Accuracy		±0.005 (10~100,000 cd/m²) / ±0.003 (1~100,000 cd/m²)			
Measurement Speed		2sec(HEXA) , 2 ~ 200sec(LUMO)			
Measurement		Time, Voltage, Current, xyLx, XYZ, TΔuvLv, u'v'Lv, CCT, CRI			
PC Interface		USB2.0 / 3.0			