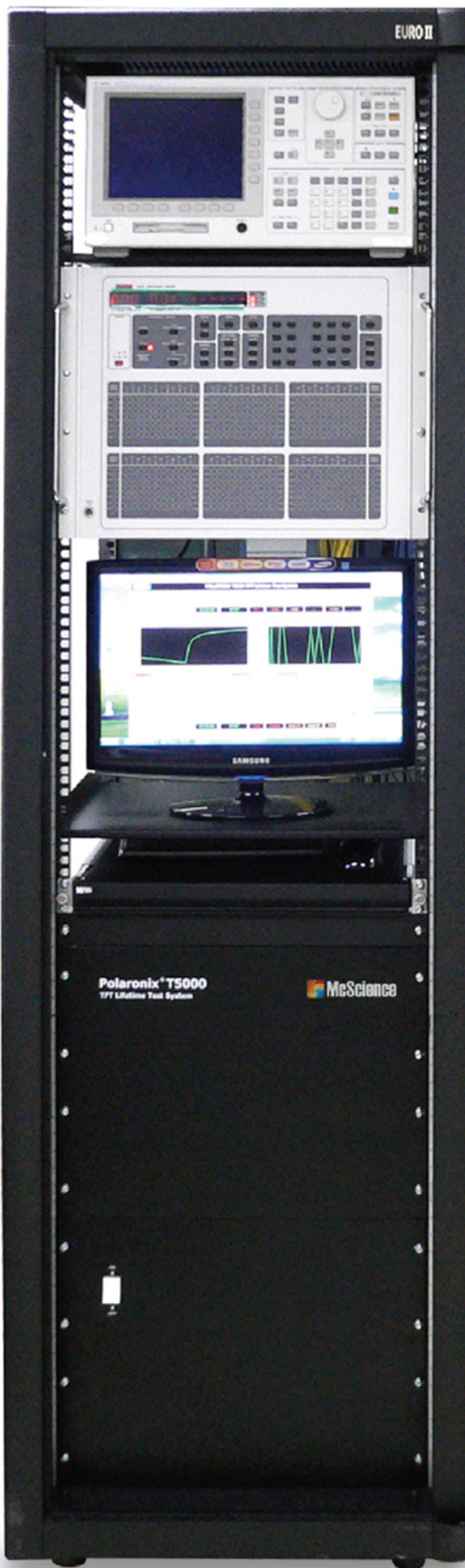
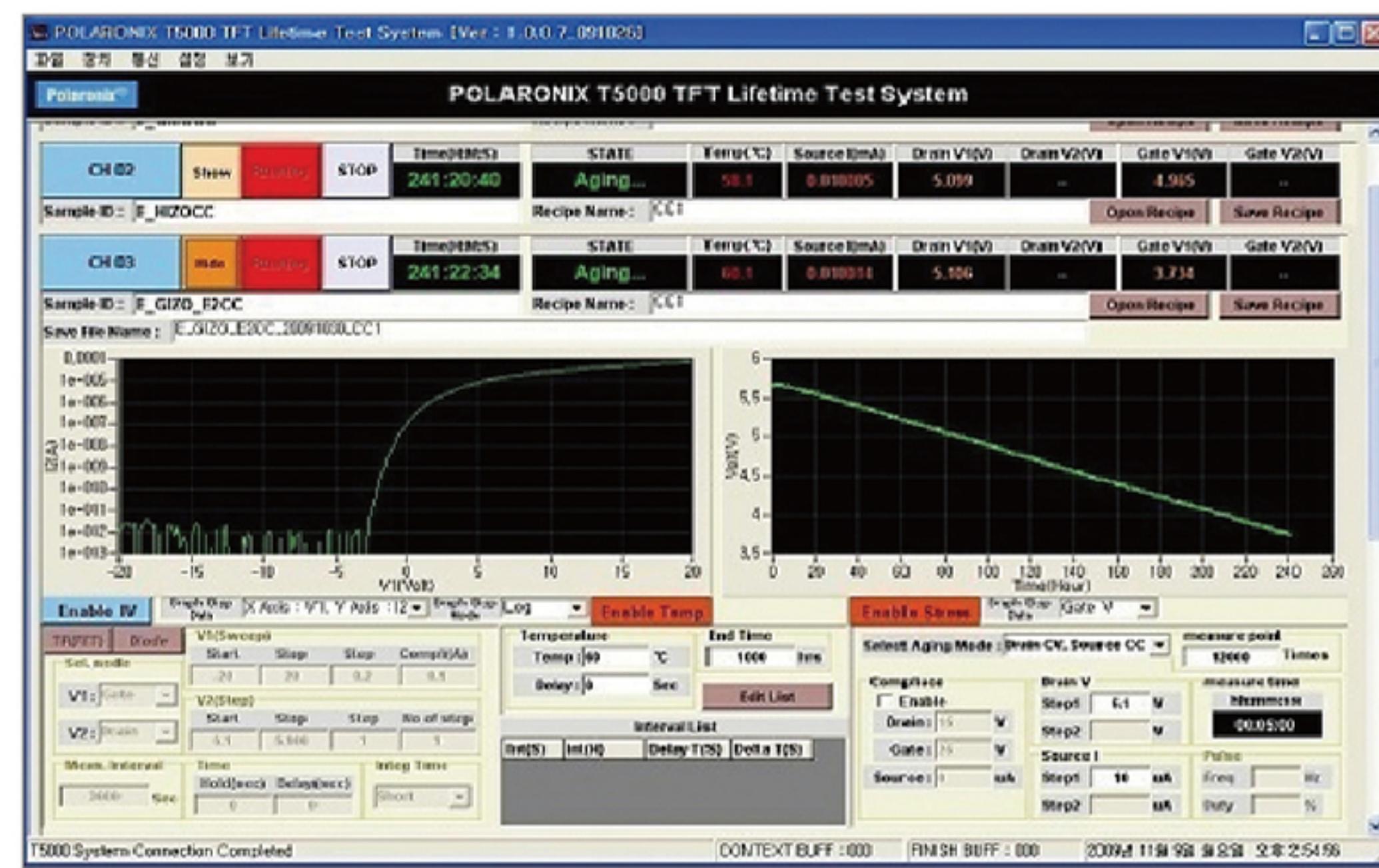


**T5000****Electrical, Optical & Thermal  
Imaging & Test Systems**

# TFT Parameter Test System

(Thin-Film Transistor)

T5000 performs a large variety of Carrier Mobility experiments for the Thin-Film Transistor (TFT) with using user preferred parameters. You can get consistent and precise measurement data, directly analyze your results in the measurement software and speed up your research.

**Mobility** + **Vth** + **On/Off Ratio** + **S-Ratio**

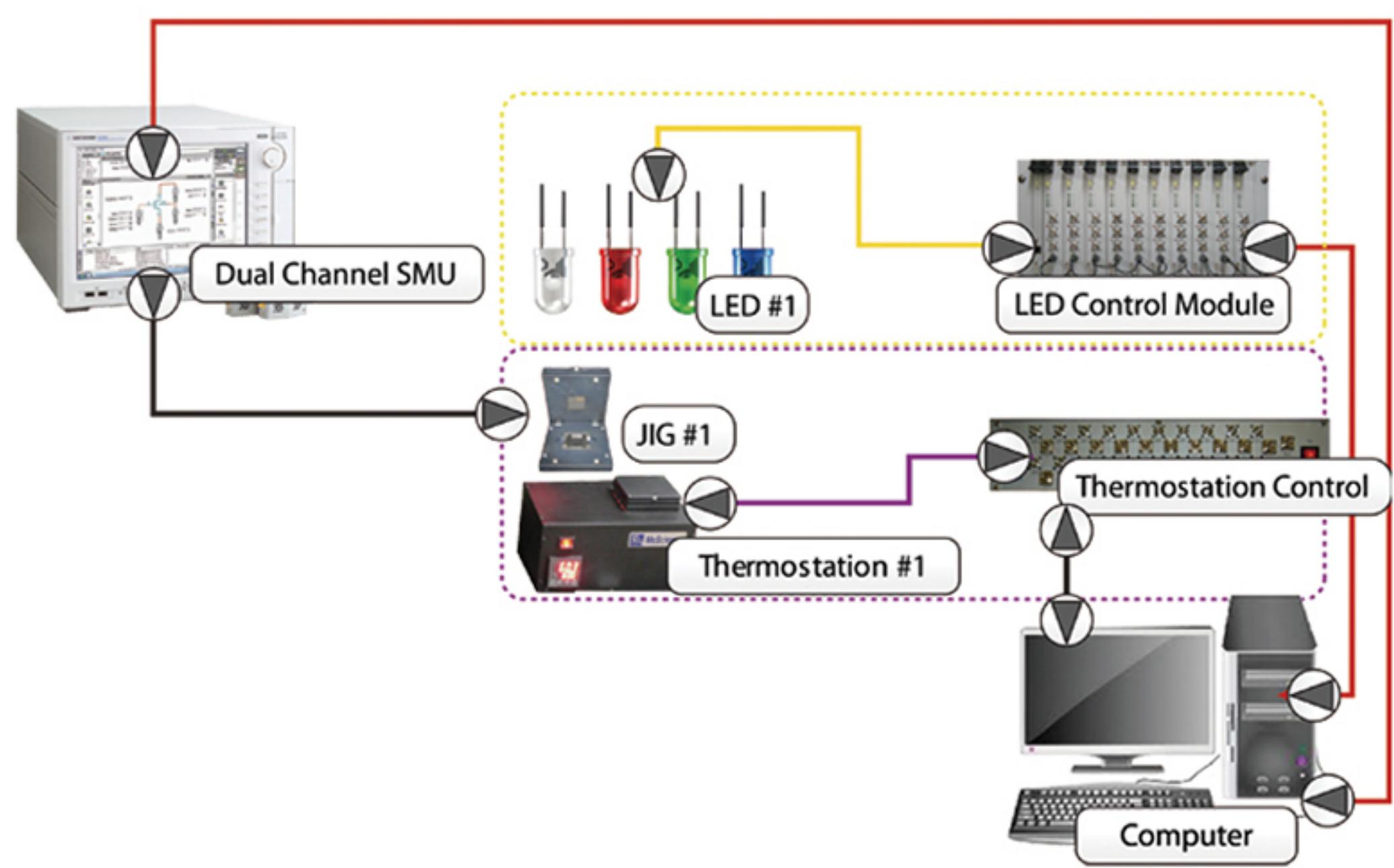
**TFT Device or OTFT Device**  
**Transfer Characteristic Curve**  
**Output Characteristic Curve**  
**Lifetime Evaluation and Aging Test**

 **McScience**

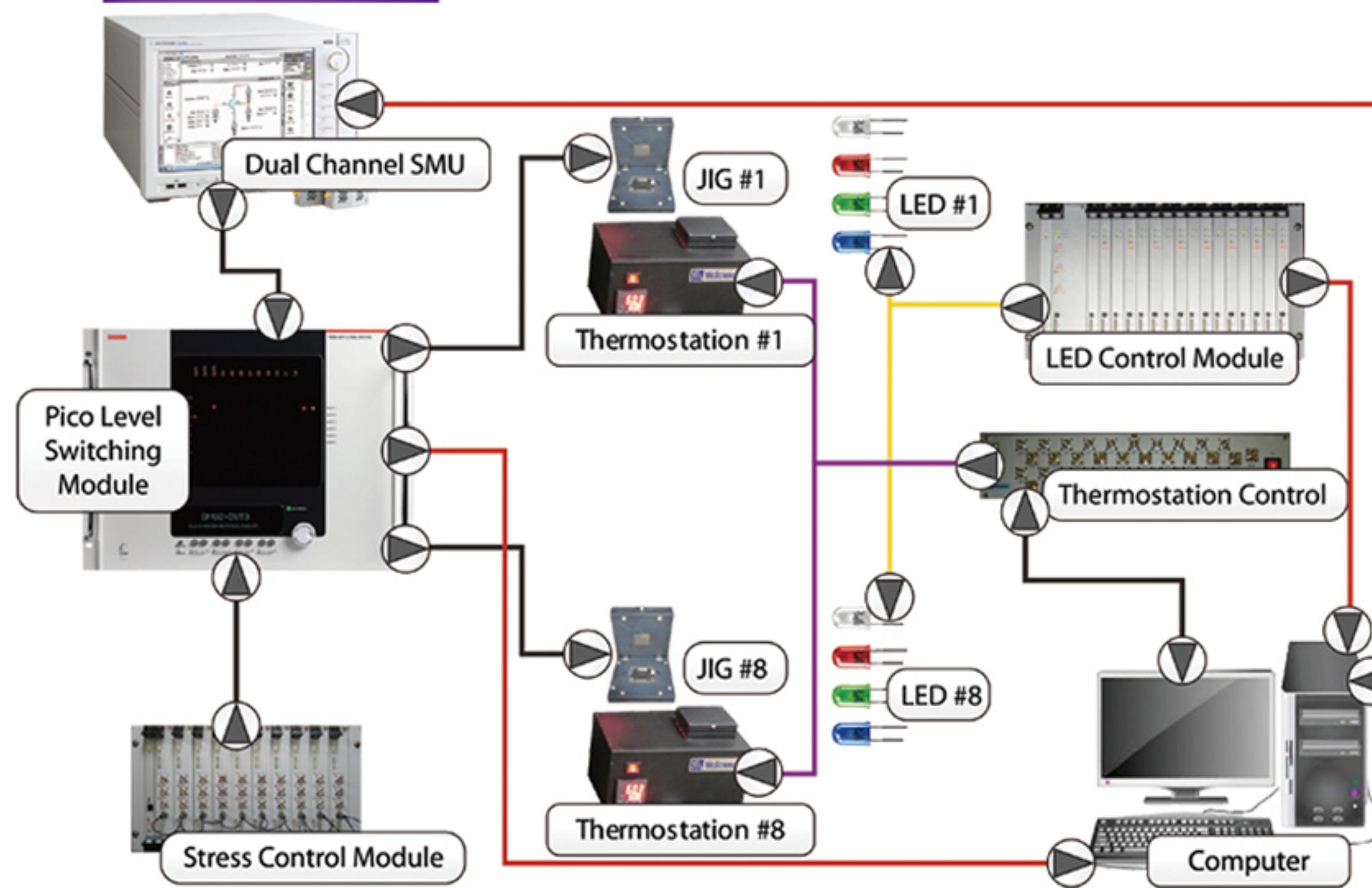
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# System Configuration

**SGX Model**



**MTX Model**



## System Components



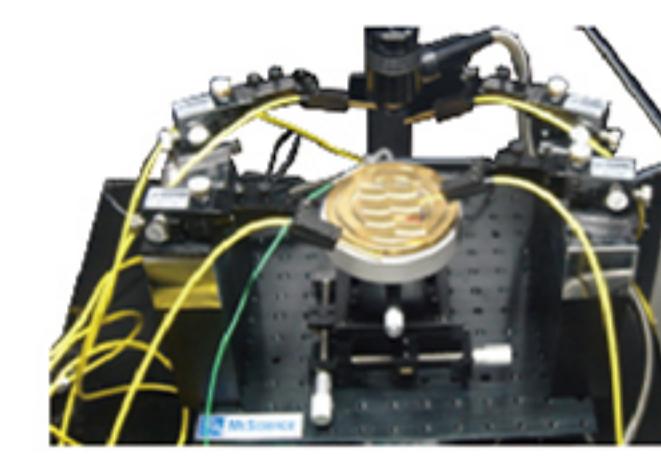
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<T510 Multichannel Voltage Source>



<DeJign Test Jig> <Thermostation>



<Probestation>



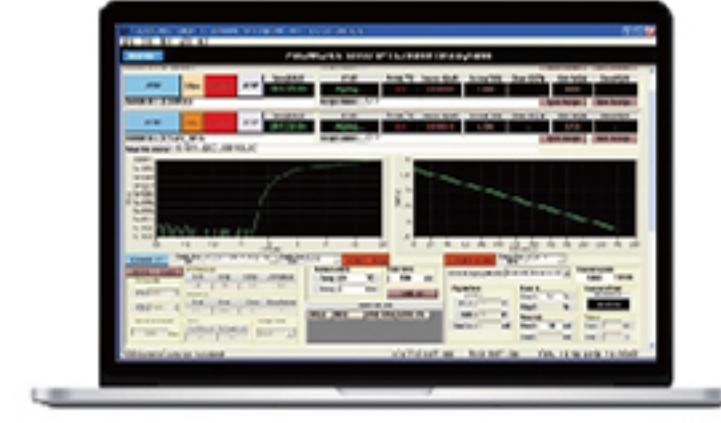
<Parameter Analyzer>



<T520 Multichannel LED Current Source>



<T530 Switching Unit>



<T750 TFT Parameter Test Software>

## System Specification

Model Name	T5000 Thin-Film Transistor Parameter Test System
System Model/Option	SGX : Single channel, MTX : Multi channel / S : Standard Model, T : Thermal Stress Model, C : Light Stress Model
System Configuration	Parameter Analyzer, Multichannel Voltage Source, Multichannel LED Current Source, Switching Unit, Sample Mounting Unit, Thermostation, Probestation, Microscope & Monitor
Dimension	Size(mm <sup>3</sup> ) : 1,000 x 1,000 x 1,000 / Weight(kg) : <200kg / Utility : 220V, 15A
Sample	Thin Film Transistor(TFT), Oxide TFT, Organic TFT
Sample Size	Glass Size : <50mm x 50mm
Contact Type	Pogo Pin Type(Typical), Probe Tip(Probestation)
Mobility Measure Range	<500cm <sup>2</sup> /V.sec
Current Measure Accuracy	<10 <sup>-12</sup> A
Temperature Control Range	R.T. ~ 100 °C, Air Cooling
LED Light Control Current	Max. 500mA, 3W High Power White LED
Measure/Analysis Item	Field Effect Mobility, Saturation Mobility, On/Off Ratio, Threshold Voltage, Sub-Treshold Swing Slope