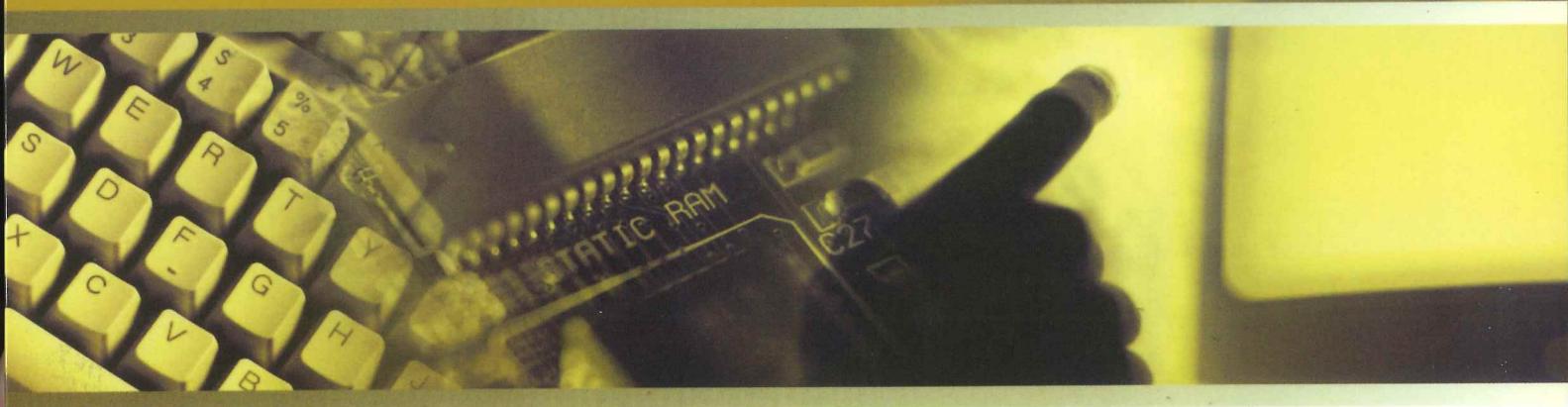
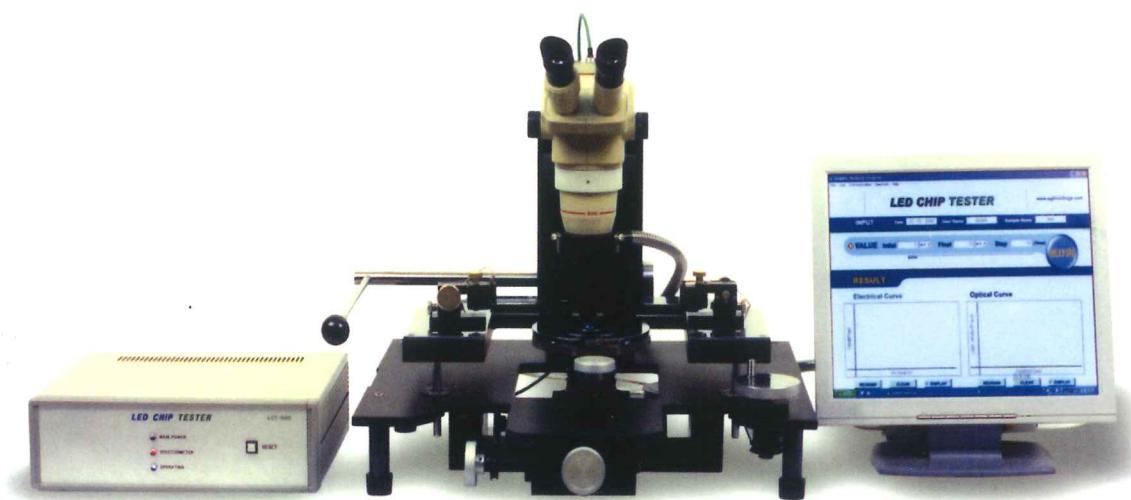


# LED TESTER



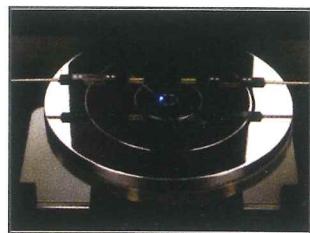
## ELT-1000

LED TESTER is a useful system for testing the electrical(I-V Curve) and optical characteristics(Spectra, light Intensity) of the LED of chip, lamp, SMD



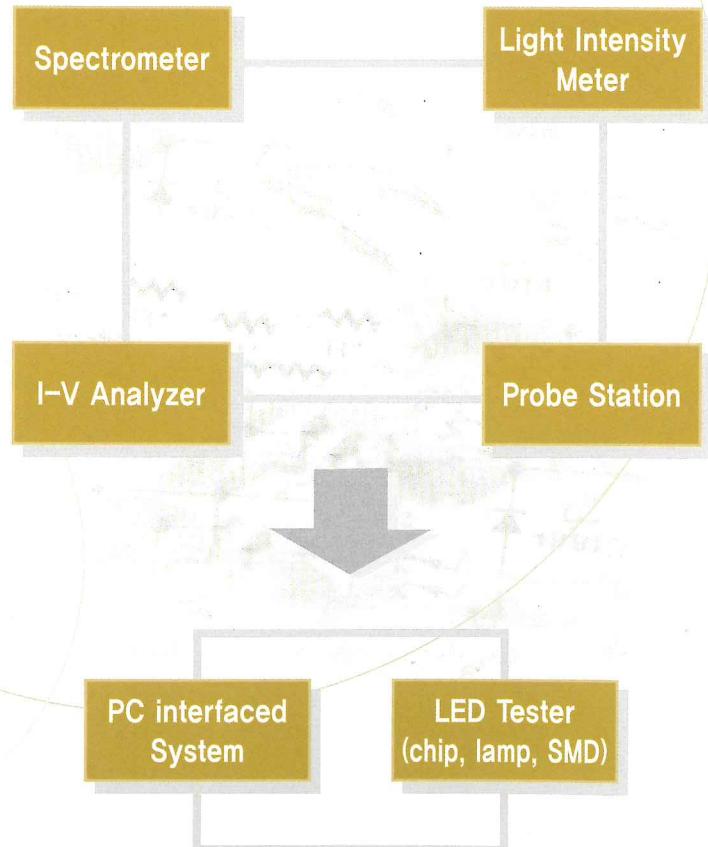
# LED TESTER

## FEATURES



- Constitution  
Spectrometer(Included S/W)  
Light Intensity Meter  
I-V Analyzer  
Probe Station
- Precise current source(Max. 1A)
- Accurate measurement of light intensity through microscope  
-Light intensity(mcd), Optical Power(mW)
- Easy operation by PC Interface & S/W program
- Drastically reduced size(compact design)
- Customizable to another probe station.

## STRUCTURE



## SOFTWARE

### Elec. & optical characteristics.



- $I_{f\text{in}}$ :Forward cut in current
- $V_{f\text{in}}$ :Forward cut in voltage
- $I_f$ :Forward current
- $I_r$ :Reverse current
- $V_f$ :Forward voltage
- $V_r$ :Reverse voltage
- $\lambda_p$ :Peak emission wavelength
- $\Delta\lambda$ :Spectra line half-width
- $\lambda_d$ :Dominant wavelength
- $I_v$ :Luminous intensity
- Spectral curve:Spectral wavelength at  $I_r$
- x, y Coordinates for white LED

### Elec. & optical curve.



- Current-Voltage Graph
- Current-Light Intensity Graph
- 0-1A Current Range Control
- Step to 0-200 Times

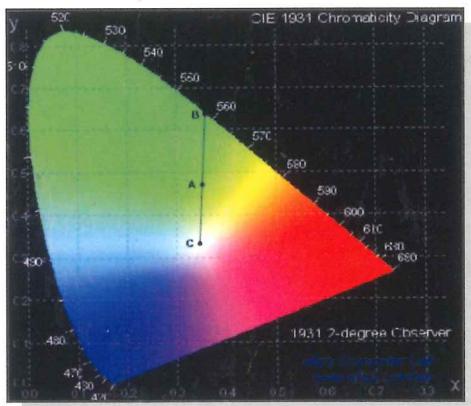
### Test data



- Easy to save and read for output data and graph.
- Save file convert to excel file

## SPECIFICATION

### ■ CIE Chart & Dominant Wavelength



CIE 1931 (CIE 1976  $u'$ ,  $v'$  coordinates)

- C:White Point( $x=1/3$ ,  $y=1/3$ )
- B:Dominant Wavelength
- A:Mixture of B and white
- AC/BC:Excitation Purity of A

### 1. OPTICAL ANALYZER

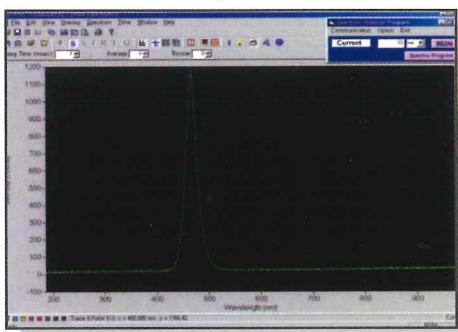
- Spectrometer
- Range : 185~1100nm
- Resolution : 1.0nm
- Light Intensity Meter
- Range : 0.01~30 cd

### 2. I-V ANALYZER

- Forward Current( $I_F$ ): $\pm(500\text{nA}\sim1\text{A})$
- Reverse Current( $I_R$ ): $\pm(500\text{nA}\sim1\text{A})$
- Forward Voltage( $V_F$ ): $\pm(20\text{V})$
- Reverse Voltage( $V_R$ ): $\pm(20\text{V})$

### 3. PROBE STATION(EPS-1000)

### ■ Spectrum analysis



- Synchronous Spectrum Analysis
- Time series acquisition function



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