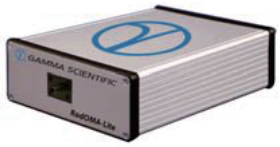
LED GaN EPI Wafer EL measurement system

LED617HC

LED GaN EPI Wafer Texter



GAMMA Spectrometer

Features

- 2"-6" LED epi wafer EL measurement system, it could be measured brightness, wavelength, color coordinates, FWHM, electrical parameters, etc.
- Single-point, multi-point, or fixed-point test platform for LED epiwafers (Platform: M2442, PG101EL)
- Electronic switch, low contact resistance, long life (M2442)
- It can be matched with various brands of spectral testers to achieve automatic testing, data storage and analysis and other functions.

Platform configuration

- M2442S-9A 9points measurement platform
- PC(with software)
- 9 points indium ball solder fixture
- Meter selection:
  Weimin LED617HC LED
  GAMMA GS-1190 Spectrometer + Keithley 2400

Weimin LED617HC test system specification

Test items	Test Conditions				Test Value
	Source	Range	Resolution	Accuracy Test Condition	Range
VF	IF	0.0001~0.4000mA	0.0001mA	±(1%+0.0002mA)	0.000~8.000V
		0.401~4.000mA	0.001mA	±(1%+0.002mA)	
		4.01~40.00mA	0.01mA	±(1%+0.02mA)	
		40.1~2000.0mA	0.1mA	±(1%+0.2mA)	
VZ	IZ	0.01~40.00uA	0.01uA	±(1%+0.02uA)	0.0~200.0V
		40.1~400.0uA	0.1uA	±(1%+0.2uA)	
		401~1000uA	1uA	±(1%+2uA)	
IR	VR	0.1~200.0V	0.1V	±(0.25%+0.2V)	0.000~4.000uA
					4.01~40.00uA
					40.1~400.0uA

Test items	Test Conditions				Test value
	Source	Range	Resolution	Accuracy	Range
LOP (lv or Ie or Luminous flux)	IF	As VF			0.000~4.000
					4.01~40.00
					40.1~400.0
					401~5000
λd	IF	As VF			360.0~440.0nm
					440.0~650.0nm
					650.0~700.0nm
λc					370.0~720.0nm
λp					310.0~1130.0nm
HW					10.0~999.9nm

GAMMA Spectrometer specification

Specification			
Detector	CCD Linear array	Lighting input	600G/mm
	· Pixels: 2048		Fiber: SMA 905 ,1000μm core Ø fiber
	· Pixel size: 14μm x 200μm		(N.A)Diameter = 0.2
	· Senstivity: 1800 V/(l*s) @660nm		Slit: 50 ,100 ,150,350,600μm
Dimension (mm)	6.3" L x 4.1" W x 2.1" H (160mm L x 103mm W x 54mm H)	Dynamic range	16 bit or 65536:1
		Interface	USB 2.0 ,16 bit ,800KHz
Weight	0.7 lbs (0.3 kg)	Input source Temp. range software	5VDC, 140 mA (Power: 0.6 - 0.7W) 15°C to 40°C RadOMA-Lite software package
Spectrum range	380-780 nm		
Spectrum resolution	0.25~0.35nm Depends on slit width and fiber diameter		

Measurement specification	
Peak wavelength accuracy	± 0.5 nm
Dominant wavelength accuracy	± 0.5 nm
Luminous flux	Depends on sphere dimension /accuracy: ± 4%
CIE1931 x,y Color Coordinate Accuracy	± 0.003
CCT	Range: 1000K ~ 100,000K Accuracy: ± 5%
FWHM accuracy	± 0.5nm
Purity	± 5%
CRI	± 5%

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