



FEASA™ LED Spectrometer

The Innovative Solution for Testing LEDs



Feasa's LED Spectrometer

The Feasa LED Spectrometer has been designed specifically to allow testing of LEDs on populated PCBs where access is limited.

The Feasa LED Spectrometer includes customised on-board firmware for automatic colour calculation in multiple colour spaces. It uses a similar easy to use set of commands as the Feasa LED Analyser.

When your quality demands Traceable Measurements the Feasa LED Spectrometer provide an ideal solution. Traceable Measurements can be obtained for Luminous Flux (Lumens) and Wavelength.

The Spectrometer is compatible with all Feasa LED Analysers to ensure production setup meets customer requirements.

- ◆ Wavelength Operating Range - 380nm to 780nm
- ◆ Automatic exposure control and Range Selection built-in
- ◆ Ideal for testing RGB LED's and Colour Mixing
- ◆ Simple and easy Command structure
- ◆ Can be controlled by User Programs.
- ◆ Measurements are easily transferrable to the existing range of Feasa LED Analysers



Feasa Enterprises Ltd.

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Registered Office: Feasa Enterprises Limited, Holland Road, National Technology Park, Castletroy, Co.Limerick, Ireland.
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Feasa LED Spectrometer v.0.5.5.0 - © Feasa Enterprises Ltd.

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www.feasa.ie
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Disconnect Settings Load Save Print Cursors Compare Terminal Golden board calibration

TestOptions

Wavelength resolution: 1.0 nm

Enable custom exposure

300 ms

Number of values to be averaged: 5

Measure

Continuous Capture

Data	Value	Value (saturated)
xy	0.3227; 0.3306	
CRI	Ra=084.12	
Power	0000.066 mW	
Luminous Flux	0000.019 lm	
CCT	05972 K	
delta uv	-0.0008	
Dominant Wavelength	488.23 nm	
Peak Wavelength	457.96 nm	
Spectral Width	033.57 nm	
Integration Time	1106.000 ms	
Capture status	OK	

Model: Feasa 01-S | SN: S001 | FW: B533 | FibCal: SF010004, HeadCal: SP020005 | Connected to COM5

Included Software

Feasa User Graphical Display Program
 Datalogging, Compare Function
 Terminal and Scripting Program export CSV format
 Compatible with Windows 7, 8, XP, Vista



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SPECIFICATIONS

OPTICAL Spectral Range Minimum Wavelength Step Integration Time	380nm to 780nm 0.1nm 2ms to 100s
ACCURACY xy Chromaticity ^{*1, *2} Power (Watts) ^{*1, *2} Luminous Flux (Lumens) ^{*1, *2} Peak Wavelength	±0.005 10% 10% ±1nm
REPEATABILITY Wavelength Chromaticity xy Intensity	±0.5nm ±0.0005 < 1%
ELECTRICAL USB Powered	Current drawn 100mA
PHYSICAL Dimensions of Spectrometer Fiber Length Fiber Diameter Operating Temperature Range	86mm x 57mm x 75mm 0.6m 5.1mm, incl. cladding 0°C to +40°C

^{*1} – Immediately after calibration relative to the calibration standard

^{*2} – When calibrated with a Miniature Integrating Sphere.

ORDERING INFORMATION

Feasa Spectrometer	Part No.: Feasa S1
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