# 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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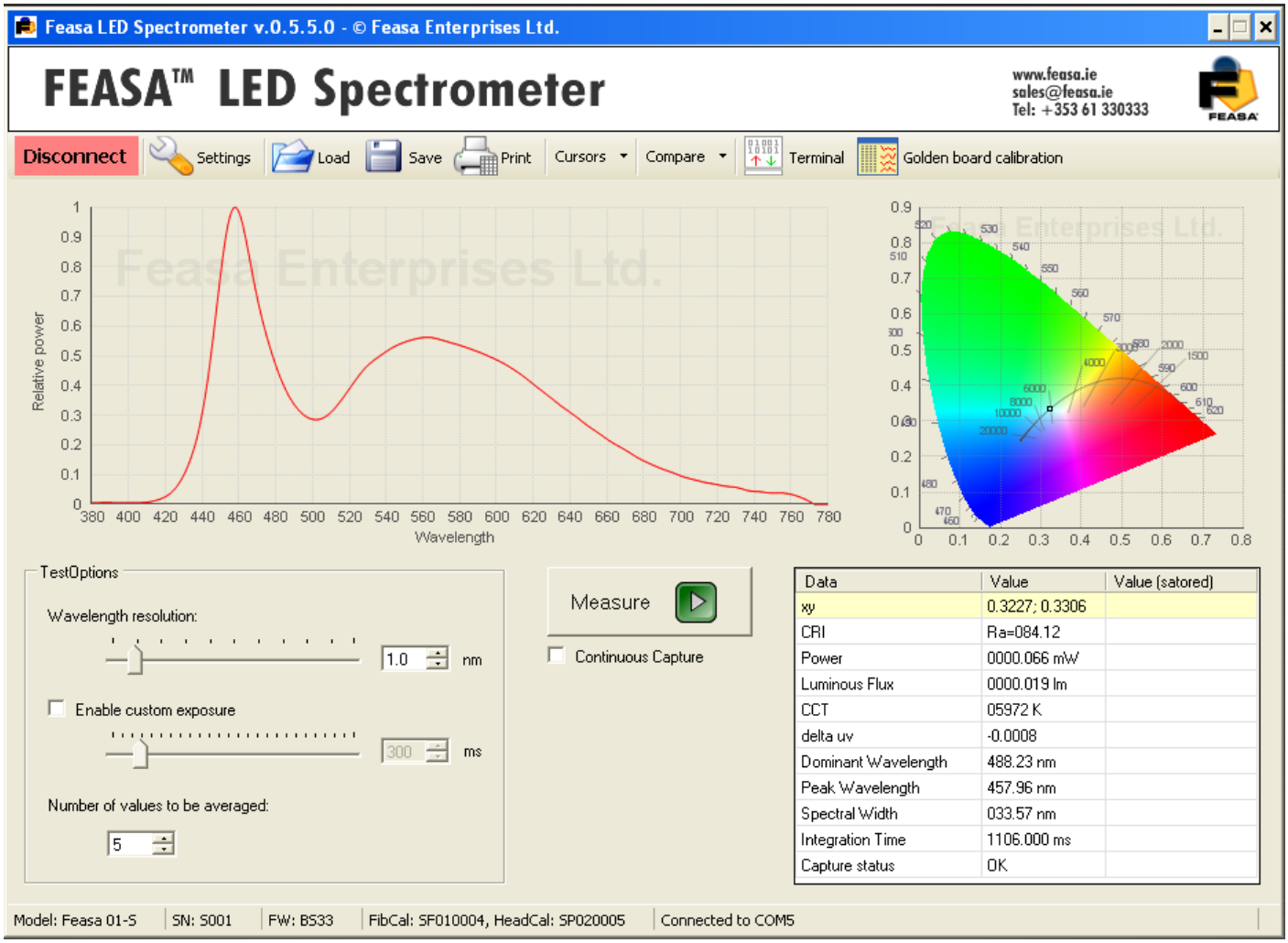
**Registered Office: Feasa Enterprises Limited, Holland Road, National Technology Park, Castletroy, Co.Limerick, Ireland.**




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