

A LED TEST SOLUTION FOR APPLICATIONS WITH LARGE LED COUNTS



The Feasa LEGEND is an innovative solution which offers many advantages for applications with a large number of LEDs.

- Dedicated Solution for LED Analysis (Hardware & Software)
- Stable readings in Intensity and Common Color Spaces
 - Hue, Saturation, Intensity (HSI)
 - Dominant Wavelength
 - Correlated Color Temperature (CCT) with Δ uv
 - CIE xy Chromaticity
- Fast & Repeatable Measurements
- Easy Integration with Computers (USB, RS232)
- Multiplatform (ICT, Functional Test, R&D, Laboratory)
- Wide Dynamic Intensity Range allows system to measure very dim to ultra bright LEDs on the same PCB.

The Feasa LEGEND provides an easy to use Graphical User Interface (GUI) to automatically learn and store pass/fail criteria for up to 32 different versions of boards reducing the complexity and development time of test programs.

The Feasa LEGEND systems consists of two component parts, a Hub and a LED Analyser. The Hub can be mounted in the Test Station or in the Test Fixture and can control up to 8 LED Analysers. Each LED Analyser can test up to 20 LEDs and a fully populated Hub can test up to 160 LEDs. Hubs may be added together to test a larger number of LEDs.



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OUTPUTS

<u>USB / RS232</u>	Used for P.C. Set Up - Hue, Saturation, Intensity (HSI) - Dominant Wavelength - CCT with Δ uv - CIE xy
10 Pin Connector	Used in Remote Stand Alone Mode - Limit Selection - Pass/Fail
6 Pin Ribbon Cable	Used to interface the LEGEND Hub to the LEGEND Analyser

TEST TIME

The speed of the test is dependent on the intensity of the LEDs being tested, i.e. Bright LEDs have a shorter Test Time, Dimmer LEDs have a longer Test Time.

The Test Time of up to 160 LEDs is done in parallel and can be achieved in times as fast as 0.8 seconds depending on the Intensity (Brightness).

In addition, Feasa also provides a number of programmes to allow for the most efficient and appropriate use of the analyser.

APPLICATIONS

Indicator LEDs

- RJ45 Connectors
- Display Panels
- Emergency Signals
- Traffic Lights
- Railway Signals

Interior Lights (Automotive & Avionics)

- Dashboard
- Map Lights
- Mood Lights

Aviation Lighting

Landing Lights

Automotive

- Daytime Running Lights
- Brake Lights
- Centre High Mount Stop Lights
- Side Turn Signals
- Emergency Stop Signal

LCD Backlighting

- TV
- Notebook/PC
- Cell Phones/Smart Phones



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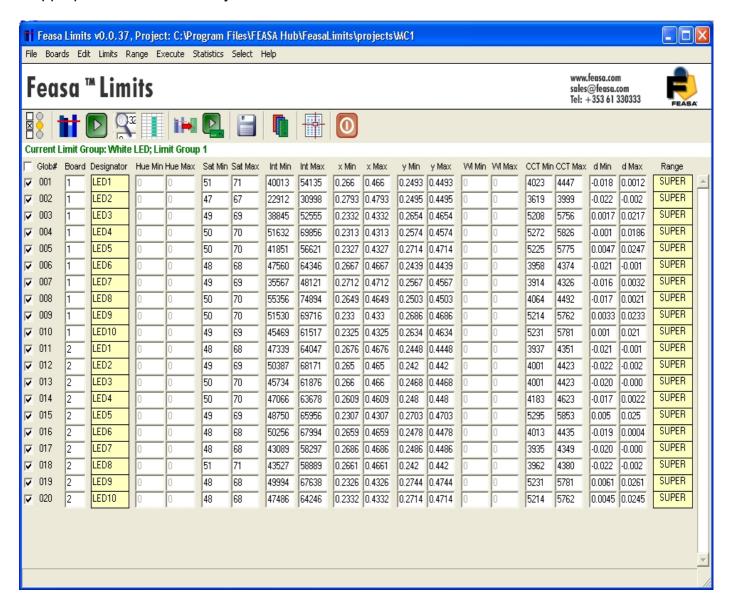


DRIVERS/SOFTWARE

Feasa provides a comprehensive suite of Drivers and Software for ease of use.

- DLL used for Testing
- Programming examples in Labview, C++
- Feasa Limits Set Up

In addition, Feasa also provides a number of programmes to allow for the most efficient and appropriate use of the analyser.





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SPECIFICATIONS

Total Operating Wavelength Range

450nm to 650nm

ACCURACY

Dominant Wavelength (after adjustment) Correlated Color Temperature (CCT) Chromaticity (after adjustment) <u>+</u> 2nm <u>+</u> 200K @ 2856K

± 0.01 @ x=0.33, y=0.33

REPEATABILITY

Dominant Wavelength
Correlated Color Temperature
Chromaticity xy
Hue
Saturation

<u>+</u> 1nm <u>+</u> 50K @ 2856K

± 0.0015 < 1

< 1 < 1%

ELECTRICAL

Intensity

Supply Voltage Supply Current (Power Supply is supplied with the LEGEND) 5.0V

< 1%

200mA per 20 Channel Analyser

PHYSICAL

Dimensions for Feasa LEGEND Hub
Dimensions for Feasa LEGEND Analyser
Fiber Length
Fiber Diameter
Minimum Bend Radius of Fiber
Operating Temperature Range

145mm x 54mm x 37mm 120mm x 29mm x 33mm*

0.6m

1.0mm, incl. cladding

15mm

0°C to +50°C

* does not include bend radius

ORDERING INFORMATION

Feasa LEGEND	Part Number		
60 Channel	Legend 60		
80 Channel	Legend 80		
100 Channel	Legend 100		
120 Channel	Legend 120		
140 Channel	Legend 140		
160 Channel	Legend 160		
>160 Channel	Legend >160		



Feasa Enterprises Ltd.