FEASA™ Low Light LED Analyser

Test Solution for Illuminated Switches

Introduction:

Automotive manufacturers are extensively using LED backlit switches and panels to create a safe and aesthetically pleasing cockpit environment for a car's occupants. Steering wheels are being designed with safety in mind to include more of the controls for in-car entertainment, phones and cruise control. Panels and switches with etched or painted symbols backlit with LEDs are nearly invisible during the day but give the driver better orientation and sense of space while driving at night.

Automotive manufacturers may source the various cockpit sub-assemblies from different suppliers. It is very important to have tight tolerances as well as standardised test set-ups to ensure correct colour matching and homogeneous intensity outputs of each sub-assembly. This ensures the consumer does not perceive colour and intensity non-uniformity in the end product.

Feasa Low Light Led Analyser

Feasa's Low Light Led Analyser is the ideal solution for these applications. The extra sensitivity measures low light levels after the light has passed through an etched plastic panel.

Tests for:-

- Intensity
- Homogeneity of Parts
- xy Chromaticity
- Dominant Wavelength
- CCT

and all with the accuracy, reliability and speed that you have come to expect from the Feasa LED Test Solutions.

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SPECIFICATIONS

ACCURACY	
xy Chromaticity	±0.01 @ x =0.33, y=0.33[1]
	*Immediately after Calibration with a known source
OPTICAL	
Minimum Luminance	< 0.5 cd/m²
Maximum Luminance	< 1,000,000 cd/m²
REPEATABILITY	
xy Chromaticity	±0.002
Intensity	< 1%
ELECTRICAL	
USB Powered	5V, 80mA
Serial, RS232, Daisy Chain	
PHYSICAL	
Dimensions of 3, 5, 6 Channel	104.5mm x 54mm x 41mm* (L x W x H)
Dimensions of 10 Channel	45mm x 54mm x 41mm* (L x W x H)
	* does not include bend radius of fiber
Fiber Length	600mm
Fiber Diameter	2.2mm OD with 1.5mm Single Core
Minimum Bend Radius of Fiber	30mm
Operating Temperature Range	0°C to +50°C
SOFTWARE	
GUI provided	
Sample command line interface	
C, C++ applications, examples	
dll, labview® support	

ORDERING INFORMATION:

Feasa 3 Channel Low Light	Part No: Feasa 3A
Feasa 5 Channel Low Light	Part No: Feasa 5A
Feasa 6 Channel Low Light	Part No: Feasa 6A
Feasa 10 Channel Low Light	Part No: Feasa 10A
Optical Heads	**Part No: available upon request**

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