



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'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.

[Feasa Low Light Led Analyser](#)



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SPECIFICATIONS

ACCURACY xy Chromaticity	± 0.01 @ $x = 0.33, y = 0.33$
OPTICAL Minimum Luminance Maximum Luminance	$< 0.5 \text{ cd/m}^2$ $< 1000 \text{ cd/m}^2$
REPEATABILITY xy Chromaticity Intensity	± 0.002 $< 1\%$
ELECTRICAL USB Powered Serial, RS232, Daisy Chain	5V, 80mA
PHYSICAL Dimensions of 3, 5, 6 Channel Dimensions of 10 Channel Fiber Length Fiber Diameter Minimum Bend Radius of Fiber Operating Temperature Range	104.5mm x 54mm x 41mm* (L x W x H) 145mm x 54mm x 41mm* (L x W x H) 600mm 2.2mm, incl. cladding 15mm 0°C to +50°C
SOFTWARE GUI provided Sample command line interface C, C++ applications, examples dll, labview® support	<small>* does not include bend radius of fiber</small>

Capture Times

Auto Range	1200ms
Range 1 (Low Intensity)	640ms
Range 2 (Medium Intensity)	200ms
Range 3 (High Intensity)	200ms
Range 4 Super Intensity	200ms
Range 5 (Ultra Intensity)	200ms

ORDERING INFORMATION

Feasa 3 Channel Low Light Analyser	Part No.: Feasa 3A
Feasa 5 Channel Low Light Analyser	Part No.: Feasa 5A
Feasa 6 Channel Low Light Analyser	Part No.: Feasa 6A
Feasa 10 Channel Low Light Analyser	Part No.: Feasa 10A
Low Attenuation Optical Head (see OH datasheet)	Part No.: OH-12, OH-13, OH-14, OH-16



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