

# FEASA™ LED ANALYSER



## FEASA™ OPTICAL HEAD OH-1

The **Feasa™** LED Analyser is an easy to use, economical test solution for the measurement of LED colour and intensity. The **Feasa™** LED Analyser uses Plastic Optic Fibres(POF's) to capture the light from the LED and carry it to the analyser.

For optimum results the sensor should be placed over the optical centre of the LED. However the placement of LED's on Printed Circuit Boards(PCB) has an allowed tolerance in the X and Y directions. When an Optical Fibre is positioned over an LED to be tested the amount of light captured by the Fibre can depend on the position of the LED.

The **Feasa™ Optical Head** has been designed to reduce the placement sensitivity of LED's when using the Feasa™ LED Analyser. The Feasa™ Optical Head has the ability to capture LED light and focus it onto the Optical Fibre. The position of the LED relative to the Fibre can vary and have negligible effect on the relative intensity measured. A single Feasa™ Optical Head is required for each LED to be tested and up to 20 Heads can be fitted to LED Analyser.



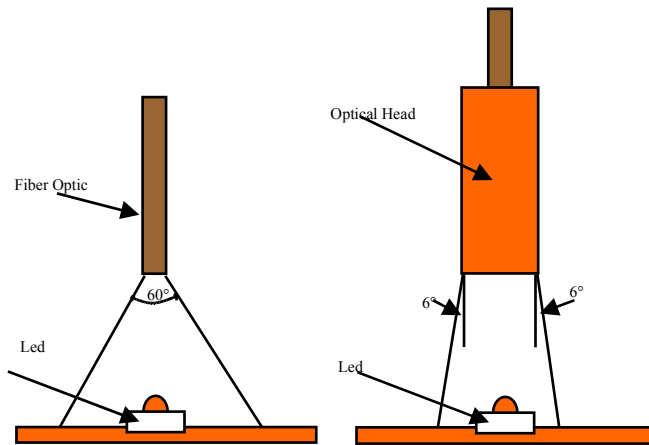
### Key Features:

- ▶ Improved Intensity Stability
- ▶ Greater ability to compensate for LED offset.
- ▶ Small focused collection angle.
- ▶ Rugged/Compact Design.
- ▶ Measures LED's on 5mm centre to centre.
- ▶ Reduced sensitivity to ambient light.

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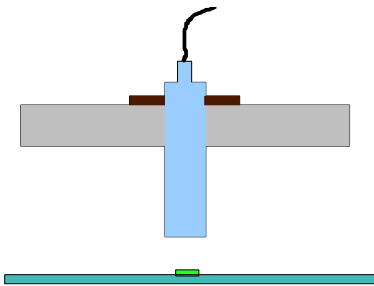
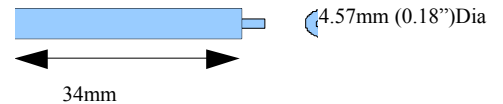


### Principle Of Operation:

The Feasa™ Optical Head collects light from a much smaller angle by comparison to using bare Fibre on its own. This has the added benefit of reducing the amount of ambient or stray light collectd by the Fibre. This light is then focused to the tip of the Fibre, and carried to the sensor on-board the Feasa™ LED Analyser.

### Physical Dimensions And Mounting

The outside diameter of the Optical Head is 4.57mm (0.18"). The Head should be centred over the optical centre of the LED to be tested.



The optical centre is not always the mechanical centre of the LED. Check the Manufacturer's Data Sheet before drilling the mounting holes. The Head can be pushed through the hole and positioned over the LED. Set a gap of 3mm between the top of the LED and the bottom of the head initially.

\* Response of Led Analyser with Optical Head.  
Data based on Knightbridge KPTB1615-CIS 11 LED.

