FEASA™ OPTICAL HEAD

LED INTENSITY TESTING

THE ULTIMATE SOLUTION TO LED INTENSITY ISSUES

OH-2 Optical Head

OH-3 / OH-5 / OH-8 Optical Head

OH-4 Optical Head

The Feasa Optical Heads have been designed to ensure stability when testing the intensity of LEDs. The robust and compact design delivers consistent and repeatable readings with a <10% intensity change over a 1mm placement of the LED. The Optical Head addresses the following issues:

- **Compensation for LED Placement**
- **Repeatable Intensity Readings**
- **Reduced sensitivity to ambient light**

OH-1: This can be used when LEDs are located as close as 3.55mm centre to centre on a PCB. Designed for 1mm fiber.

OH-2S: This can be used when there are fixturing height restrictions as it is only 30mm in length. Designed for 1mm fiber.

OH-3: Our standard Optical Head and is suitable for most applications with a centre to centre distance of 5mm. Designed for 1mm fiber.

OH-4: Ideal for testing 90° or side emitting LEDs. Designed for 1mm fiber.

OH-5: Is used when LEDs are as close as 4.00mm centre to centre on a PCB. Designed for 1mm fiber.

OH-6: Ideal for testing High Brightness LEDs or LEDs with a large diameter, particularly suitable for Daytime Running Lights. Designed for 1mm fiber.

OH-7LT: Is designed to be used in an oven with the LED Life Tester Analyser. The temperature range of this Optical Head is -65°C to +125°C. Designed for 1mm glass fiber. This requires epoxy to attach the fiber to the Optical Head.

OH-8IR: Is designed to test the wavelength and Intensity of Infrared LEDs in conjunction with the IR LED Analyser. Designed for 1mm fiber.

OH-9RF: This Optical Head is suitable for use in RF environments. Designed for 1mm fiber.

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OH-10: Suitable for high bright LEDs on close centres; 1.3mm centre to centre. This is provided with 1mm fiber attached.

OH-11: Suitable for high bright LEDs on very close centres; 1.0mm centre to centre. This is provided with 1mm fiber attached.

OH-12: Ideal for testing Low Light LEDs particularly suitable for Backlight Switches and Panels. Designed for 2.2mm fiber to be used in conjunction with the Low Light Analyser. This requires epoxy to attach the fiber to the Optical Head.

OH-13: Ideal for testing Low Light LEDs particularly suitable for Backlight Switches and Panels. Designed for 2.2mm fiber to be used in conjunction with the Low Light Analyser. This requires epoxy to attach the fiber to the Optical Head.

OH-14: Ideal for testing 90° or side emitting Low Light LEDs particularly suitable for Backlight Switches and Panels. Designed for 2.2mm fiber to be used in conjunction with the Low Light Analyser. This requires epoxy to attach the fiber to the Optical Head.

OH-16 Ideal for testing low light LEDs or LEDs with a large diameter, particularly suitable for Backlight Switches and Panels. Designed for 2.2mm fiber to be used in conjunction with the Low Light Analyser.

The typical gap between the LED being tested and the Optical Head is between 3mm and 5mm but may vary significantly depending on the application.

SPECIFICATIONS & ORDERING INFORMATION

Optical Head LED Analyser – Temperature Range 0°C – 70°C

Part No.	Stainless Steel Body Diameter - Imperial	Stainless Steel Body Diameter - Metric	Recommended Drill Size in G10	Length (including screw Connector)**	Minimum Centre to Centre Distance	Fiber Diameter
OH-1	0.120 ± 0.001	3.05 ± 0.02	3.00mm	40mm**	3.5mm	1mm
OH-2S	0.180 ± 0.002	4.57 ± 0.05	4.55mm	30mm**	5mm	1mm
OH-3	0.180 ± 0.002	4.57 ± 0.05	4.55mm	50mm**	5mm	1mm
OH-4	0.180 ± 0.002	4.57 ± 0.05	4.55mm	59mm**	5mm	1mm
OH-5	0.141 ± 0.001	3.58 ± 0.02	3.55mm	49mm**	4mm	1mm
OH-6	0.315 ± 0.001	8.00 ± 0.02	8.00mm	51mm**	9mm	1mm
OH-10	0.037 ± 0.0025	0.940 ± 0.060	1.00mm	51.5mm	1.5mm	1mm
OH-11	0.0357 ± 0.0003	0.90 ± 0.006	0.95mm	35mm	1.1mm	1mm

Optical Head LED Life Tester – Temperature Range -65°C – 125°C

Part No.	Stainless Steel Body Diameter - Imperial	Stainless Steel Body Diameter - Metric	Recommended Drill Size in G10	Overall Length	Minimum Centre to Centre Distance	Fiber Diameter
OH-7LT	0.180 ± 0.002	4.57 ± 0.05	4.55mm	39mm	5mm	1mm

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Optical Head IR LED Analyser – Temperature Range 0°C – 70°C

Part No.	Stainless Steel Body Diameter - Imperial	Stainless Steel Body Diameter - Metric	Recommended Drill Size in G10	Length including screw Connector	Minimum Centre to Centre Distance	Fiber Diameter
OH-8IR	0.180 ± 0.002	4.57 ± 0.05	4.55mm	50mm	5mm	1mm

Optical Head RF LED Analyser – Temperature Range 0°C – 70°C

Part No.	PVC Body Diameter - Imperial	PVC Body Diameter - Metric	Recommended Drill Size in G10	Length including screw Connector	Minimum Centre to Centre Distance	Fiber Diameter
OH-9RF	0.257 ± 0.002	6.55 ± 0.05	6.55mm	50mm	7mm	1mm

Optical Head Low Light LED Analyser – Temperature Range 0°C – 70°C

Part No.	Stainless Steel Body Diameter - Imperial	Stainless Stell Body Diameter - Metric	Recommended Drill Size in G10	Overall Length	Minimum Centre to Centre Distance	Fiber Diameter
OH-12	0.180 ± 0.002	4.57 ± 0.05mm	4.55mm	28mm	5mm	2.2mm
OH-13	0.180 ± 0.002	4.57 ± 0.05mm	4.55mm	44mm	5mm	2.2mm
OH-14	0.180 ± 0.002	4.57 ± 0.05mm	4.55mm	46mm	5mm	2.2mm

Optical Head Low Light LED Analyser – Temperature Range 0°C – 70°C

Part No.	PVC Body Diameter - Imperial	PVC Body Diameter - Metric	Recommended Drill Size in G10	Length including screw Connector	Minimum Centre to Centre Distance	Fiber Diameter
OH-16	0.400 ± 0.005	10.2 ± 0.1mm	10.2mm	51mm	11mm	2.2mm

Please contact Feasa if you require advice or assistance.
Feasa are continuing to develop Optical Heads for new applications and can provide customer solutions if required.

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