KI661x Series Fibre Safe Scopes The file fold

The KI 6610 Handheld FibreSafe Inspection Microscope is the microscope of choice to check fibre optic connector end face quality. It provides the state of the art in eye safety.

A combination of versatile and rugged design, easy operation, quality optics and durable construction ensures that this equipment will enhance the performance of installation and maintenance staff.

Applications

- Optical connector end face inspection in field or factory
- Multimode and single mode fibre
- Inspects both single and dual connector

Optical Safety:

Operators should comply with relevant company policy, standards or good practice on optical safety. This equipment greatly enhances practical eye safety in accordance with IEC60825-2 Ed 3.1 as follows:



Features & Benefits

- Compact, lightweight, reliable
- Excellent image quality & depth of focus
- Easy focus and image centering
- Stable LED illumination with timer
- Triple-mode illumination: coaxial, oblique & core
- Enhanced eye safety for red and infra-red light
- Long operation from AAA battery
- Micro-USB power input & low battery indication
- Tripod & lanyard mount
- View & store images on PC with optional camera
- Universal connector adapters for most simplex and duplex connectors
- Adapter ring for unusual connector adapters
- x200 or x400 magnification versions
- Supplied with soft carry case
- 3 year standard warranty
- Made in Australia





The FibreSafe Microscope is used to inspect fibre optic connectors for quality and dirt, and offers improved overall performance and features.

x200 magnification is ideal for general installation & maintenance checking by entry level staff, on single mode and multimode fibre. Faults that cannot be seen are unlikely to affect connector performance, focusing is easier, and battery life is longer.

x400 magnification is ideal for high-end field use, inhouse QA, factory, laboratory etc.

Ease of use and superb image quality make for simple and efficient operation. The X-Y image position is easy to optimize, and focusing is improved. Light weight, ergonomic controls and timed illumination make for easy one-hand operation, so the other hand is free to move the connector as needed.

Triple-mode illumination gives maximum flexibility. Coaxial illumination gives the highest level of image detail. Oblique illumination shows only major defects and contaminants; Core illumination shows continuity and sub-surface cracks.

Screw-on universal adapters suit most modern optical connectors, including duplex assemblies. An adapter ring fits other specialist connector adapters.

Power is either by 1 x AAA alkaline battery, with low battery indicator, or from external micro-USB. Illumination level is unaffected by battery voltage.

The unique in-built safety filter blocks both red and infra-red light. This makes the microscope eye-safe with visual fault locators up to +20 dBm and at operational wavelengths up to +30 dBm, power levels that are unlikely to be exceeded under fault conditions.

Viewing and storage of images on a computer is achieved by replacing the standard eyepiece with an optional 1.3M pixel digital camera.

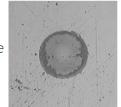
Technical Specifications

Part number	KI6610	KI6611
Optical magnification	200x	400x
Max viewable area	1 mm dia.	0.5mm dia.
Dimensions (mm)	(L) 184.4 x (W) 49.3	
Weight (kg)	0.21	
Power	1 AAA battery w. low battery indicator	
Battery life (coax)	300 hrs	75 hrs
External power	Micro-USB	
LED life	100,000 hours	
Eye safety filter	Built in, see optical safety specifications on page 1	
Controls	Auto-time off	
Triple-mode illumination	1) Coaxial; 2) Oblique: 3) Core illumination	
Damage power level	+30 dBm	
Operating temp (°C)	- 15 to +55	
Storage temp (°C)	-25 to +70	
Relative humidity	0 to 95 %	
Standard accessories	2.5mm universal scope adapter (OPT681), type-A to type-B micro USB cable, operation manual, AAA battery, wrist strap, soft pouch	

Triple Mode Illumination

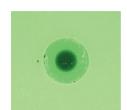
1) Coaxial illumination

Coaxial illumination maximizes the detail seen by the user. Because the light travels along the same axis as the sample inserted into the microscope, fine scratches and contamination are easily visible.



2) Oblique illumination

In oblique illumination, the light from the LED hits the end-face at an angle, making the core clearly visible and allowing the user to readily see any surface debris or contamination. The amount of scratches seen on the ferrule is limited.



3) Core illumination

Core illumination shows the details of the fibre core, or for continuity testing. It uses the in-built LED visible light source to inject the light to the patch cord, so the fibre core area can be clearly shown on the screen.



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Optional Accessories & Interchangeable Connector Adapters

Description	Part number
Option, Scope Digital Eyepiece, 1.3 MP	OPT684
Option, Scope adapter kit (Include: OPT681A, OPT682, OPT682A & OPT683)	OPT680
Option, Scope adapter 2.5 mm universal	OPT681
Option, Scope adapter 2.5 mm universal, APC ¹	OPT681A
Option, Scope adapter 1.25mm universal	OPT682
Option, Scope adapter 1.25 mm universal, APC¹	OPT682A
Option, Scope adapter converter to 7/8 UN-28 TPI, female	OPT683 ²
Option, Scope adapter E2000 APC	OPT668A
Option, Scope adapter E2000 PC	OPT670
Option, Scope adapter MPO/MTP, x200 scope only	OPT677
Option, Scope adapter MPO/MTP APC, x200 scope only	OPT678
Option, Scope adapter LC APC ³	OPT661A
Option, Scope adapter SC APC ³	OPT662A
Option, Scope adapter FC APC ³	OPT663A
Option, Scope adapter SMA	OPT679

Please enquire for other adapter styles.

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For further information: www.fibreoptic.com.au +61 3 9757 3000



Note 1: Using APC adapter with specific connector type is a more optimal solution where possible.

Note 2: OPT683 fits various common male scope adapters with a 7/8 UN-28 TPI thread, e.g. JDSU/ Westover FMA Series, Lumen etc.

Note 3: APC adapter with specific connector type