

# PriorSpec™ II

**PRIOR**  
Scientific

## Microscope for Fiber Optic Terminations

### Features



The PriorSpec II is an essential tool for the visual inspection of fiber optic connectors. Scratches, dirt and other problems associated with poor transmission performance can be clearly seen.

Building on the strength of the market leading PriorSpec, the PriorSpec II provides several new features. A novel folded beam design provides an ergonomic, pocket-sized microscope and a new stabilised LED illumination system offers greatly increased bulb and battery life.

- Robust design and construction.
- Compact 'folded beam' design.
- Outstanding optical quality.
- Long life LED illumination system.
- Simple to use and maintain.
- Choice of magnifications including a zoom option.
- Widefield eyepieces.
- Full & extensive range of patented adapters.
- Laser barrier filter for added safety.
- Low battery warning light.

## Specifications

### Quality Optics

This quality inspection microscope provides a total magnification of 200x or 400x and incorporates a precision focus mechanism. The 'folded beam' optical system consists of all glass optics including an achromatic objective and widefield eyepiece for a high quality optical image. The magnification can be easily changed at anytime by simply exchanging the eyepiece. A zooming eyepiece is also available to provide a 200x to 400x magnification range. A laser barrier filter is incorporated into the PriorSpec II for added safety.

The new filter specifications are as follows:

Wavelength (nm)	Optical Density (OD)	Attenuation (dB)
850	2.0	20
1300	5.0	50
1550	4.0	40

Activated fibers should never be viewed with the PriorSpec II.

### Superior Illumination

The PriorSpec II utilises a new and innovative illumination system. An LED offers improved light quality, very low heat output and extremely long life, estimated to be 10,000 hours of usage (equivalent to 10 years typical work load). The combination of the LED with microprocessor control means that the battery life is dramatically improved by a factor of 20 times.

Longer battery life plus a low battery warning display will mean far



fewer battery changes. The illumination will remain constant until the low battery light indicates a change of batteries. This feature ensures the image quality is not compromised.

### Also available from Prior Scientific

A Pocket Microscope has been developed as a compact unit for low cost applications. A zoom range of 100x to 150x is standard and a range of adapters is available.

The Video Fiber Viewer for production environments offers an integrated high-resolution video camera for on-screen



inspection.



Prior Scientific can also offer a range of Bench Fiber Microscopes for the critical inspection of fiber optic terminations in manufacturing, QA and research environments.

### Patented Connector Adapters

Prior Scientific offers the widest range of adapters available to suit different connectors.

They snap into the centering mechanism on the microscope nosepiece. As new connectors are developed and released, Prior will develop the appropriate adapter.



### Ordering Guide

- G00200 PriorSpec II, magnification 200x
- G00400 PriorSpec II, magnification 400x
- G425 Widefield eyepiece 10x
- W387A Widefield eyepiece 20x
- W436F Zoom eyepiece 10x to 20x
- G999 2.5mm Universal Adaptor
- W2650 Carrying case
- W2568 PriorSpec II Operating Instructions

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Specifications subject to change without notice. UK Patent No. 2156097 US Patent No. 4640578