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Data Sheet

August 15, 2026

BUEHLER

Buehler Fibrskope Portable Microscope 0801-9505

The Buehler Fibrskope Portable Microscope 0801-9505 is a compact and versatile inspection tool designed for on-site analysis of materials and surfaces. Its fiber optic technology enables access to hard-to-reach areas, providing high-resolution imaging for quality control, failure analysis, and maintenance applications. Lightweight and easy to use, it ensures accurate and reliable results wherever you need them.



MODEL

Buehler 0801-9505

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

0801-9505

LISTING

<https://aumictechlabs.com/products/0801-9505-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Buehler Fibrskope Portable Microscope 0801-9505 is a specialized inspection instrument for high-resolution examination of fiber optic end-faces and polished surfaces. It identifies surface imperfections - pits, scratches, and anomalies - critical for quality control in fiber optic manufacturing and field installations. Weighing 21 oz and housed in a durable, impact-resistant plastic body, the Fibrskope delivers portable, on-site analysis without sacrificing optical performance. Technical Specifications Magnification & Optics 200x magnification (10x widefield eyepiece + 10x objective) 400x magnification (20x widefield eyepiece + 20x objective) 200x-400x magnification (10x-20x zoom eyepiece) Achromatic objectives: 4x (0.10 N.A.), 10x (0.25

N.A.), 20x (0.30 N.A.) Widefield eyepieces: 10x and 20x (reticle cell accommodates 19 mm diameter reticles) Zoom eyepiece: 10x–20x (no reticle capability) Head magnification factor: 1.25x Illumination & Power Built-in incident tungsten illuminator with variable intensity control Battery operation: 2 × AA, 1.5V each AC adapter option: 115V/50–60Hz/1 phase or 220–240V/60Hz/1 phase Replacement bulb: 0818-0110 Focusing & Positioning Coarse and fine focus adjustment with precision fine focus capability Connector adapters with X-Y directional adjustment for fiber positioning Fiber Optic Connectors Four standard adapters included: SMA 905/906, FC, ST, SC Over 40 connector adapters available Key Features Compact, lightweight design (21 oz) for portability Durable, impact-resistant high-density plastic construction Built-in laser protection filter for injected laser light Fitted carrying case included Interchangeable eyepieces and objectives for flexible magnification Typical Applications On-site fiber optic connector inspection, end-face quality verification, polished surface analysis, manufacturing quality assurance. Compatibility & Integration Optional FIBRSKOPE Stand (0822-0110) and AC Adapter (0822-0120) available. Compatible with FIBRMET Portable Fiber Optic Polisher for fiber end preparation. Replacement eyepieces (0815-0200, 0815-0202, 0815-0204) and objectives (0814-0200, 0814-0202, 0814-0204) sold separately.

08019505 Characteristics / Specifications

PARAMETER	VALUE
Model	0801-9505
Instrument Type	portable fiber connector microscope
Manufacturer	Buehler
Literature	remaining-queue listing Buehler Fibrskope Portable Microscope 0801-9505
Family	Buehler FIBRSKOPE / FIBRSSKOPE fiber endface microscopes
Form Factor	as installed per drawing
System Role	inspection of FC ST SC SMA and 2.5 mm ferrule connector endfaces
Brand Lineage	Buehler
Queue Title	Buehler Fibrskope Portable Microscope 0801-9505
Documentation Type	OEM remaining-queue listing
Use Case	inspection of FC ST SC SMA and 2.5 mm ferrule connector endfaces
Vendor Path	Buehler
Year Class	0801-9505 generation
Application Class	portable fiber connector microscope
Module Class	portable fiber connector microscope
Host Class	host on the drawing
Connector Class	connectors on the drawing
Ate Class	industrial / lab ATE class
Control Class	front panel / firmware on the drawing
Environment Class	ambient on the nameplate
Voltage Class	volts on the nameplate
Current Class	amperes on the nameplate
Config	0801-9505 remaining-queue suffix
Function Class	function on the drawing
Eyepiece	WF10X/18 listed with 0801-9505 kits

PARAMETER	VALUE
Adapter Class	FC ST SMA and 2.5 mm universal adapter kits
Replacement Bulb	0818-0110 listed with 0801-9505 kits
Inspection Role	pits scratches and surface imperfections on fiber endfaces

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes
From remaining-queue title (Buehler Fiberscope 0801-9505) and FIBRSKOPE kit listings (WF10X/18, FC/ST/SMA/universal adapters, 0818-0110 bulb). Magnification beyond the WF10X eyepiece is on the optical tube drawing.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.