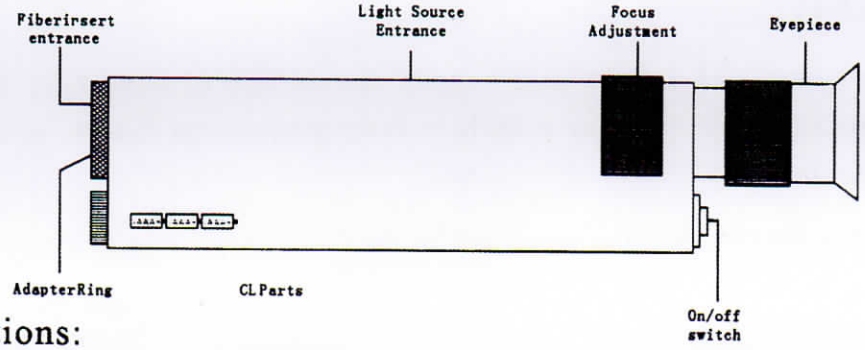
CL-Series Fiber Microscope Data

The CL-Series Hand Held Fiber Microscope utilizes a white LED for coaxial illumination. Light is introduced into the optical path (axis) so that it comes out the tip of the objective and strikes the sample perpendicular to the fiber end-face. It produces excellent detail of scratches and contamination. For critical examination of polish quality, we strongly recommend the CL-Series Hand Held fiber Microscope.



Specifications:

Optical Magnification: 100X, 160X, 200X, 320X, 400X

Power Requirements: 3 "AAA" alkaline batteries

LED: Rated life: 10000 hrs

Weight: 0.6kg

Size: 225mm/8.76 "Length x 32mm/1.25" Diameter

Controls: Momentary on/off switch; Fine-Focus control

Laser Safety Filter: Built-in

Adapter interface: Use interchangeable, presented universal or dedicated adapters

Cat. No.	Description
CL-100	100X Fiber Microscope with universal "slip-grip" adapter
CL-160	160X Fiber Microscope with universal "slip-grip" adapter
CL-200	200X Fiber Microscope with universal "slip-grip" adapter
CL-320	320X Fiber Microscope with universal "slip-grip" adapter
CL-400	400X Fiber Microscope with universal "slip-grip" adapter

Operation Step:

Step 1. Input the Fiber which will be checked into the Fiber Insert Entrance, insert another fiber connector into the light source entrance

Step 2. See from the Eyepiece and press on the on/off LED switch (Illumination)

Step 3. Adjust the focus control, just to find the clearest viewing.

Guarantee Terms:

All products from our company are warranted to be free of all defects in material and workmanship for a period of 12 months from the date of delivery. The warranty does not apply to any instrument which has become worn, defective, damaged or broken due to abuse, misuse, tampering, or unauthorized repair. Under this warranty, We will repair or replace, without charge to the purchaser, any part of which upon our examination, appears to be defective in materials or workmanship.

How to choose between the CL-Series and the OL-Series?

Both series of our Hand Held Fiber Microscope provide excellent views of the ferrule end face. We recommend 400x magnification for single-mode and 200x magnification for multi-mode:

(1)If you frequently terminate fiber and have received professional traianing, you are probably best served by our CL-Series microscope.

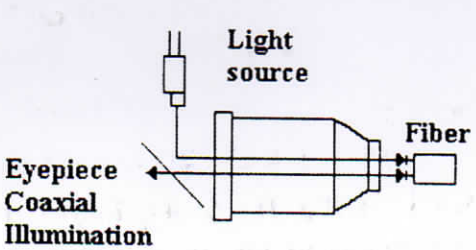
(2)If you only occasionally terminate fiber, and are unsure, you might consider the OL-Series.

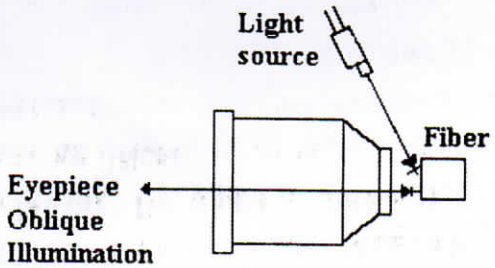
Laser Safety: Optical Inspection Microscope

Fiber Inspection microscopes are equipped with potent laser safety filters. Without such protection, users take dangerous risks.

We have just completed a laser safety study for its line of hand held fiber termination inspection microscopes. So we have a built-in laser attenuation filters. It will decrease the dangerous risks to the users.

The following is the simple inner structure for the Fiber Inspection Microscopes:





CL(V) Series **OL(V) Series**

Our CL(V) and OL(V) Series optical microscopes are equipped with IR attenuation filters that may help in preventing eye damage in cases of accidental live fiber viewing. The filter we install will provide over 35 dBm of attenuation at 1310nm and 1550nm. In addition, it will provide over 20.5dBm of attenuation at 850nm. 1550nm.

For 1310nm and 1550nm laser sources up to +15dBm we feel our microscopes will provide a sufficient safety backup in cases of accidental viewing. Beyond this power level, and in particular when using systems incorporating Raman Amplification, we suggest you utilize our Video Inspection Microscopes. These systems provide the highest level of safety assurance during microscope analysis since the video camera will be looking at the fiber-not your eye. For systems with such high-power lasers, we feel this added level of assurance is required.

DO NOT use ANY our Fiber Inspection Microscopes to VIEW ACTIVE fiber signals under ANY circumstances. Active fiber signals contain high-powered laser light, it can do much harm to the eyes. So we must avoid contracting with the laser lightning direct eyes. The failure to avoid direct eyes contact with laser light can result in serious damage to the eye. Especially, our Hand Held Fiber Inspection Microscopes may magnify the laser light in active fiber signals; direct eye contact with magnified laser light should be avoided. Laser safety filters, as used in our Hand Held Fiber Inspection Microscope, are no substitute for practicing good laser safety. If you are unfamiliar with laser safety practices, please ask the information from the distributors or seek out professional training. There are many capable trainers working in the fiber optic field who can help.