

# VOLT Overview

## Features

- Measures the length of both single mode and multi-mode fiber with accuracy of  $\pm 2.5$  meters
- High-intensity visible laser allows for visible fault location of breaks and microbends
- Pulsed mode provides easy fiber identification
- Easy-to-read bright red 7-segment LED display
- 15 hours continuous use on one 9v battery
- Low battery indicator
- Handheld
- Lightweight

Product manuals come in PDF format on CD. Adobe Acrobat Reader™ is required to view these documents.



## Key Specifications

Measurement Range	up to 1.5 kilometers
Accuracy	$\pm 2.5$ meters
Resolution	0.001 kilometers (1 meter)
Dimensions	4.94 x 2.75 x 1.28 in
Weight	6 ounces



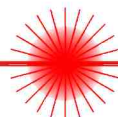
N.I.S.T. Traceable

MADE IN USA



**O.W.L.** Optical Wavelength Laboratories

Manufacturer of Quality Optical Fiber Test Equipment



## Visual Optical Length Tester

## Applications

VOLT stands for Visual Optical Length Tester, and offers a unique, low-cost alternative for users who need to measure the length of optical fibers.

Fiber installations are increasingly required to have fiber length measurements to comply with bid requirements. Rather than purchase certification test sets that can cost thousands of dollars, the VOLT can be added to an installer's existing fiber test kit.

These length testers use a "round-robin" method of measuring fiber length. This is accomplished by looping back two fibers at one end of the fiber run with a patch cord. The round trip time that the light takes to travel through both fibers is converted to length in kilometers, then divided by two to show the length of the fiber cable. There is no need to measure the length of all the fibers; the length measurement can be applied to all fibers in the cable. This method of length testing provides accurate measurements, and saves time and money.

Measuring fiber by the jacket is an accepted method of measurement; however, there are many scenarios where this may not be valid. Length markings may be hard to reach if they are already terminated in a patch panel. Fiber links may also go through multiple cross-connects or have splices in the middle, thereby making jacket markings invalid. Optical measurement of fiber produces accurate results without the need for jacket markings.

Optical measurement also saves time by eliminating the need to estimate the length of the fiber run with a measuring wheel. This method is especially troublesome and inaccurate in networks that traverse walls, are in a star topology, or contain riser cables.

The VOLT uses a visible laser that can measure fiber links of up to 1.5 kilometers, and is accurate to within  $\pm 2.5$  meters. In addition to length testing, the VOLT's high-intensity laser permits it to do double duty as a visual fault locator, and a pulsing mode allows for easy fiber identification.

NOTE: To avoid confusion, the VOLT is NOT an OTDR-like device. **THE VOLT DOES NOT TEST LENGTH TO A FAULT. IT IS ONLY CAPABLE OF MEASURING THE LENGTH OF A FIBER LOOP.**



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