Companies that manufacture fiber optic end-face inspection instruments

Overview

We also offer two scanning white-light interferometers (SWLI) that enable detailed measurements of the connector end face for inspection and quality-control applications.

Key Takeaways

Dimension Technology, Thorlabs, and Fluke Networks are leading manufacturers of fiber optic end-face inspection instruments, offering desktop, portable, and automated solutions for high-precision optical testing.

Dimension Technology

Dimension Technology specializes in fiber end-face inspection and cleaning solutions for optical fiber manufacturing, engineering, and maintenance. Their product range includes desktop and portable microscopes, as well as fully automatic end-face inspection systems like the FastCheck V2, which provide high-definition imaging, AI-assisted defect detection, and rapid inspection of connector end-faces. Dimension's instruments are designed for applications in telecom, data centers, and high-speed optical modules, supporting 400G/800G networks and ensuring reliable optical transmission.

They also offer a wide variety of adapters and tips to accommodate different fiber types and connectors.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Thorlabs

Thorlabs provides fiber end-face inspection systems including Fiber Cleave Analyzers for interferometric measurements and Visual Scratch & Defect Inspection Systems for connector end-faces. They also offer scanning white-light interferometers (SWLI) for detailed quality control and a selection of fiber inspection scopes and eye loupes. Thorlabs' instruments are suitable for both laboratory and field applications, enabling precise inspection of bare fibers and connectorized fibers.

Fluke Networks

Fluke Networks' FI-7000 FiberInspector Pro is a portable inspection scope that allows automated PASS/FAIL certification of fiber optic connector end-faces in seconds. It highlights defects clearly, stores images, and integrates with other testing platforms like CertiFiber Pro OLTS and OptiFiber Pro OTDR for comprehensive fiber network documentation. The FI-7000 is designed for field technicians and network engineers, providing fast, reliable inspection and compliance with industry standards (IEC 61300-3-35).

Key Features Across ManufacturersHigh-resolution imaging for detecting micron-level defects Automated pass/fail analysis to reduce operator error Portable and desktop options for field and lab use AI-assisted inspection for rapid defect detection and reporting Compatibility with multiple fiber types and connectors via adapters and tips ApplicationsFiber optic end-face inspection instruments are essential in: Telecommunications and data centers for connector verification and maintenance Optical module manufacturing to ensure high-quality pigtailing and assembly Field engineering projects to inspect and clean connectors before and after installation These manufacturers provide reliable solutions for ensuring clean, undamaged fiber end-faces, which are critical for minimizing signal loss, reflection, and network downtime.

Article Content

Fiber End Face Inspection

We also offer two scanning white-light interferometers (SWLI) that enable detailed measurements of the connector end face for inspection and quality-control applications. Additionally, a selection of fiber

Fiber Endface Inspection – connectors, bare fiber ends,

Nyfors offers high precision interferometers for checking the end face quality of cleaved optical fibers and for cleave process optimization. They show crisp and

Fast Check MT Fully Fiber Endface Inspector

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Dimenu0002sion Technology has launched a new FastCheck MT Fully Fiber Endface Inspector, which is designed for multi-core optical modules and high-density connectors.

Endface Inspection-DIMENSION

Dimension is committed to building a series of portable fiber optic end face probes/microscopes, becoming ideal tools for inspecting fiber connector end-face defects before and after network

Sumix | Fiber inspection tools for production and maintenance

High-resolution industrial interferometers to control quality of single fiber and multi-fiber connectors, ferrules and bare fiber, with the capability of measuring guide holes angles and parallelism for MPO

Fiber Inspection Scope Products

Shop fiber optic inspection scopes, including single- and multi-fiber inspection products from trusted brands like Dimension, Domaille, Viavi, and Jonard.

Purchase Fiber Optic Inspection Tools Online

Buy fiber optic inspection equipment and tools from Cables Plus USA. Our fiber optic inspector tools offer networking installers many choices of endface inspectors and probes including single/multi-fiber

WebProcure

WebProcure offers best-in-class functionality, reaching end-to-end from requester to procurement buyer to merchant, and all the way back! Designed specifically for the public sector.

Latest Technology Stock Investing Analysis | Seeking Alpha

Seeking Alpha''s latest contributor opinion and analysis of the technology sector. Click to discover technology stock ideas, strategies, and analysis.

Thomas Insights

Thomas Insights - U.S. Manufacturing and Industrial News The Biggest US Robotics and Automation Manufacturers From industrial giants like Rockwell and ABB to AI leaders like NVIDIA,

All-in-one Fiber Optic End-face Inspection Scope,IV200M

It automatically detects surface files and automatically analyzes spectral ends to generate reports. The use of coaxial optical amplification system and high

Corning | Materials Science Technology and Innovation

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Corning Incorporated is a global-leading innovator in materials science, with 170 years of life-changing inventions and category-defining products.

Optical connector end face inspection machine series

The Optical Connector End Face Inspection Machine series is a fiber end face inspection device that allows for easy observation of dirt on the end faces of optical connectors and transceivers (*). *Some

Endface Inspection-DIMENSION

Endface Inspection- Dimension is committed to creating a series of optical fiber end-face defect inspection products. For the fiber optic manufacturing and

Fiber Inspection and Cleaning

FV Benchtop Microscopes Microscopes that equip optical connectivity manufacturers with the ability to ensure clean fiber connector end-faces...

SUN-EC-A Fiber End face Inspector

SUN-EC-A series of fiber end-face inspector has clear images and a long lifetime. It has different kinds of adaptors for a wide variety of connectors. It is easy to operate and widely used in fiber optic patch

AUTOCHECK Intelligent Integrated Fiber End-face Visual Inspector

AUTOCHECK Intelligent Integrated Fiber End-face Visual Inspector AutoCheck is the first intelligent integrated fiber end-face inspector developed by Dimension Technology. With the advantages of

EASYCHECK Integrated Fiber End-face Visual Inspector

EASYCHECK Integrated Fiber End-face Visual Inspector Easycheck is an integrated fiber endface inspector developed by Dimension Technology; it combines optical microscope and monitor in a

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved

Contact Us

Continue your research online:

Website: https://alfa-pro.co.za
Technical inquiry: https://alfa-pro.co.za/contact.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 ALFA PRO COMMUNICATION SYSTEMS (Pty) Ltd - All rights reserved