Dimension Optical Module End Face Inspection Instrument



Overview

Next-gen all-digital fiber end-face detector with digital imaging for enhanced internal capabilities. Single-focus, dual-magnification efficient detection with clear image quality.

Key Takeaways

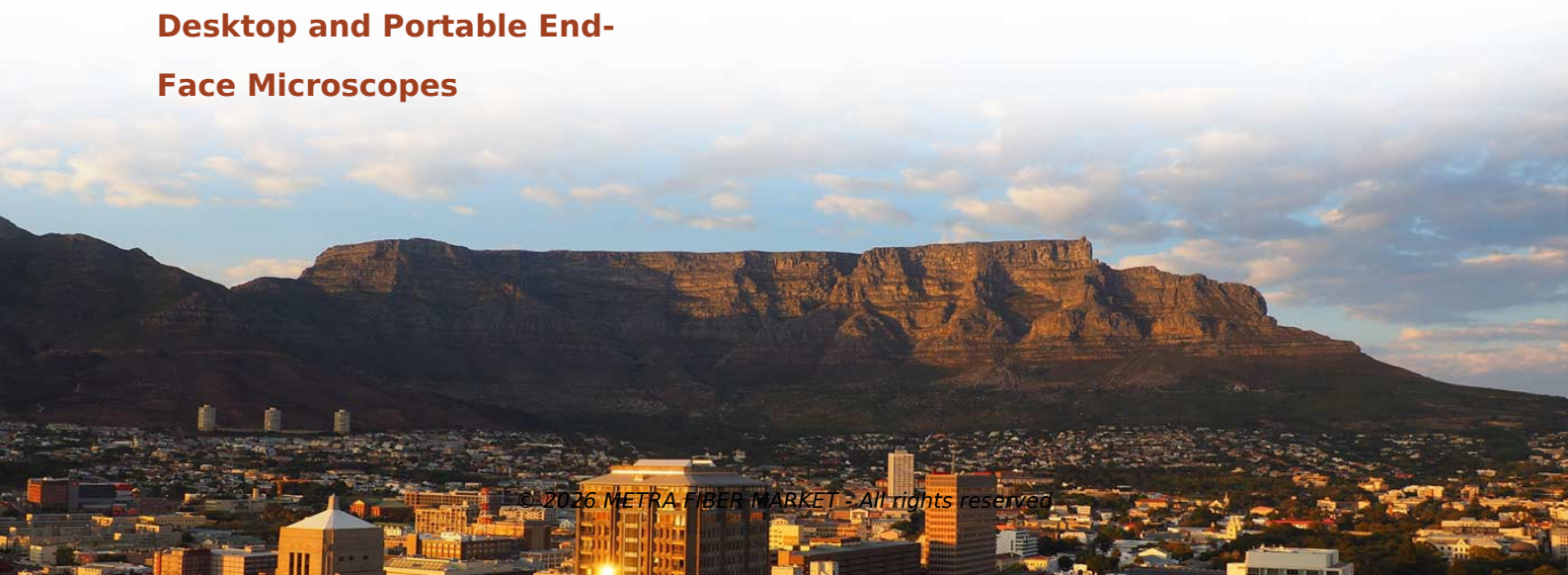
Dimension offers a range of high-precision, intelligent optical fiber end-face inspection instruments for both desktop and portable applications, designed to ensure quality and efficiency in high-speed optical communication manufacturing.

Overview

Dimension Technology specializes in fiber optic end-face inspection and cleaning solutions to prevent signal loss, reflection, and unreliable connections caused by contamination or defects on fiber end faces. Their instruments are widely used in fiber connector development, manufacturing, and network installation, providing high-definition imaging, intelligent defect detection, and automated reporting. Key Product Series1.

Desktop and Portable End-

Face Microscopes



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Desktop microscopes offer high-resolution imaging and fully automatic inspection for laboratory or production environments. Portable microscopes are ideal for field inspections, allowing engineers to check fiber connectors before and after network installation. Both types support a wide range of adapters and tips to accommodate various connector types.

2.

Easy

Check Dual Magnification Fiber Endface InspectorModel EC200/40KC features dual magnification, enabling simultaneous detection of the entire fiber end face and ferrule. High-definition imaging with an 8" black-and-white TFT LCD provides detailed visualization of defects. Includes universal connector adapters for 1.

25mm and 2. 5mm connectors, suitable for TOSA/ROSA components. 3.

Auto

Check Intelligent Integrated Inspector

Fully stand-alone Android embedded system with Dimension image analysis software. Automatically identifies and marks tiny defects according to IEC standards or customized criteria. Supports automatic focusing, centering, measurement, and report generation, with storage via SD card, WiFi, or Ethernet.

4.

Fast

Check M

T Fully Fiber Endface InspectorDesigned for multi-core optical modules and high-density connectors such as 400G, 800G, and 1. 6T transceivers. Uses large-field imaging technology to capture all fiber end faces at once, eliminating core-by-core detection.

Integrates automatic focusing, centering, and Pass/Fail analysis, generating real-time visual reports and enabling digital quality traceability.

Advantages

High precision and reliability: Detects microscopic defects without relying on operator experience. Automation and efficiency: Fully automatic inspection reduces time and labor costs, especially for high-density connectors. Versatility: Supports a wide range of fiber connectors, TOSA/ROSA components, and multi-core modules.

Digital reporting: Inspection results are automatically saved for quality management and traceability.

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Applications

Optical module manufacturing: Ensures defect-free end faces for high-speed transceivers. Connector quality control: Critical for MPO, MT, MMC, and SN-MT connectors. Field maintenance and installation: Portable instruments allow on-site inspection to prevent network failures.

High-speed network deployment: Supports 400G/800G/1. 6T optical communication systems with rapid, accurate inspection. Dimension's instruments combine high-definition optics, intelligent software, and automation to meet the growing demands of modern optical communication networks, ensuring both product quality and production efficiency.

Article Content

Optical Module End Face Inspection-DIMENSION

Next-gen all-digital fiber end-face detector with digital imaging for enhanced internal capabilities. Single-focus, dual-magnification efficient detection with clear image quality. Desktop fiber end-face detector

DIMENSION SmartCheck Intelligent Fiber Endface Inspector

SmartCheck is the latest intelligent fiber optic end face detector developed by Dimension Technology It has varied automated and intelligent functions such as automatic analysis, autofocus, and automatic

AutoCheck Intelligent Integrated Fiber End-face Visual

AutoCheck is the first intelligent integrated fiber end-face inspector developed by Dimension Technology. With the advantages of Dimension image analysis

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 body other than separate designs. It has clear images and long

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

DIMENSION

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We are dedicated to offering top-notch optical device testing and fiber end-face inspection solutions and equipment to customers worldwide. Through years of technical refinement and accumulation, we

PDF document

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EasyCheck V2 Digital Fiber Endface Inspector

Main applications Fiber optical connectors, optical transmission modules, TOSA/ROSA; Component and other end face inspection Digital imaging for

HTO-7000B Fiber End Face Detector – 200X/400X Microscope

DESCRIPTION The HTO-7000B Integrated Optical Fiber End Face Detector is HOLIGHT''s advanced end-face inspection system, built to support production, testing, and R&D

Optical Fiber End Face Inspection and Automatic Analysis

SmartCheck Intelligent Fiber Endface Inspector Desktop fiber end-face detector for fully automated analysis of multi-core fiber connectors□

DIMENSION FA-1 Fiber Array Endface Inspector

The FA-1 fiber array end face detector is an end face detection equipment developed by Dimension Technology for fiber array design It professionally designed fixtures and optical display platform can

Fiber Endface Inspection – connectors, bare fiber ends, cleanliness ...

Various instruments are used for inspecting bare or connectorized fiber endfaces: fiber microscopes, videoscopes and interferometric analyzers.

Portable Optical Fiber End Face Visual Inspection-DIMENSION

Find the Portable Optical Fiber End Face Visual Inspection That''s Right For You AutoGet MT Fiber Endface Inspector Its large-field-of-view (FOV)design ensures full-core coverage in a single scan,

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.

Desktop End Face Inspector-DIMENSION

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EasyCheck V2 Digital Fiber Endface Inspector Next-gen all-digital fiber end-face detector with digital imaging for enhanced internal capabilities.

FA-1 Fiber Array Endface Inspector-DIMENSION

The FA-1 fiber array end face detector is an end face detection equipment developed by Dimension Technology for fiber array design It professionally designed fixtures and optical display platform can

Fibre End-face Visual Inspection Equipment by Dimension Technology ...

Explore the comprehensive selection of Fibre End-face Visual Inspection Equipment by Dimension Technology, now offered at AusOptic.

DIMENSION SmartCheck Intelligent Fiber Endface

SmartCheck has outstanding software algorithms and is easy to operate, able to differentiate the small scratches and dirty points on the fiber end face; The

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

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