

# Which optical module company is AOI



## Summary of Content

Applied Optoelectronics, Inc. (AOI) is a leading global manufacturer of optical modules, including 1.6T, 800G, 400G, 100G, and 40G transceivers, with vertically integrated production spanning semiconductor lasers, optical components, and advanced transceiver modules.

### Overview of AOI

Applied Optoelectronics, Inc. (AOI) is a major U.S.-based optical module and semiconductor manufacturer serving data center, telecom, FTTH, wireless, sensing, and cable broadband markets. It designs and manufactures lasers, optical components, and high-speed optical transceivers using in-house semiconductor fabrication.

### Key Capabilities

- Vertically integrated manufacturing: AOI grows its own semiconductor materials using MBE and MOCVD, enabling full control over laser and optical component production.
- High-volume production:
  - 1.2M+ semiconductor chips/month
  - 270K+ optical transceivers/month
  - 75K+ amplifiers/month
- Global operations: Manufacturing in the U.S., Taiwan, and China.
- Certifications: TL9000:2016 & ISO9001:2015.

## Article Content

What is Automated Optical Inspection (AOI) Machine?

Automated optical inspection (AOI) is the future of production quality assurance. Revolutionize your production

What Is Automated Optical Inspection (AOI)?

Learn how Automated Optical Inspection (AOI) ensures PCB quality by identifying defects

Advanced Optical Components: TO, TOSA, ROSA, and

AOI offers a wide range of optical components for telecom, datacom, and sensing applications, including

Viscom Optical Inspection | 3D AOI

Excellent inspection results from all perspectives In contemporary electronics manufacturing, automatic

AOI At A Glance Doc Update\_V3

Applied Optoelectronics Inc. (AOI) is a leading provider of advanced optical and HFC networking products that power AI and the

Automated Optical Inspection

Automated optical inspection (AOI) is defined as a quality control process that utilizes advanced image capturing and processing

Automated Optical Inspection Companies

Apart from R& D, the company has been implementing strategies such as partnerships and collaborations to rapidly expand its

Design and development of an Automatic Optical Inspection (AOI)

Visual inspection of components, subassemblies and final products is an essential step to ensure the quality control of

Automated Optical Inspection (AOI)

Automated optical inspection (AOI) is an inspection technique used in various electronic products to ensure quality standards. What

Automated Optical Inspection (AOI) Equipment Manufacturers

A list of Automated Optical Inspection (AOI) Equipment Manufacturers are listed on PCB Directory. Narrow down on companies by

Top 10 Manufacturers of Automatic Optical Inspection (AOI)

Here we present 10 top automatic optical inspection manufacturers in the world. These company are Orbotech,

What is Optical Inspection (AOI) System? A

Automated Optical Inspection System or AOI is used in manufacturing for detecting defects

Automated Optical Inspection (AOI) for PCB Assembly Efficiency

AOI, short for Automated Optical Inspection / Automatic Optical Inspection, is well responsible for quality control in terms of both

AOI – Lasers, Optical Transceivers & HFC Networks

AOI leads the charge in future-proofing connectivity, with optical solutions poised to revolutionize industries like healthcare,

Automated Optical Inspection System (AOI) in PCB Manufacturing

Automated Optical Inspection (AOI) systems have revolutionized the way PCBs are inspected, offering unmatched

Telecom Optical Solutions: Lasers & Transceivers

Explore AOI's specialized telecom solutions, featuring advanced telecom lasers, optical components, and optical transceivers for

What is AOI? | Automated Optical Inspection

Like other methods, automated optical inspection (AOI) is also used for fault inspection on boards to make PCB

HFC Networking Solutions: Amplifiers, Extenders

AOI's Quantum12™ and Quantum18™ HFC networking solutions, including system amplifiers, line

About AOI: Leaders in Optical & Laser Technologies

At Applied Optoelectronics, Inc. (AOI), we're dedicated to transforming communication through the design, development, and

News Releases | Applied Optoelectronics, Inc.

Applied Optoelectronics Reports First Quarter 2026 Results SUGAR LAND, Texas, May 07, 2026 (GLOBE

Advanced Semiconductor Lasers & DFB Chips

Explore AOI's state-of-the-art semiconductor lasers and DFB chips designed for unparalleled efficiency in rapid data transfer and

## HFC Amplifiers

AOI Quantum18 and Quantum12 amplifiers are built to improve HFC network reliability, throughput, and service flexibility. They

What is the AOI Full Form? Everything You Need To Know

What is the AOI full form? AOI stands for Automated Optical Inspection. In PCB

What is Optical Inspection (AOI) System? A

Automated Optical Inspection (AOI) System: A Comprehensive Guide Automated Optical

Automated Optical Inspection (AOI) – An Overview for Beginners

In this blog post, we'll take an in-depth look into what automated Optical Inspection (AOI) actually is - its advantages,

You may not have heard of AOI, but its data center optical

Applied Optoelectronics Inc. (AOI) has manufactured advanced optical and HFC networking products for data center

AOI | Home

With over 25 years of experience in the AOI market and distributing Video Microscopes, X-Ray & Camera Based AOI Worldwide,

Applied Optoelectronics, Inc. AOI | Semiconductor Materials and

Founded in February 1997, Applied Optoelectronics, Inc. (AOI) designs, develops, and manufactures advanced optical devices,

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://benniedesignstudio.co.za>

Email: [sales@benniedesignstudio.co.za](mailto:sales@benniedesignstudio.co.za)

Phone: +27 82 391 4765

Address: The Towers, 1 St Georges Mall, Cape Town, 8001, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

