

OBR equipment for optical communication



Overview

Luna Technologies' Optical Backscatter Reflectometer (OBR) was the industry's first ultra-high resolution optical time domain reflectometry (OTDR) device with backscatter-level sensitivity for interrogating components or systems. This feature is usable for optical inspections and diagnostic capabilities. The Luna state-of-the-art OBR provides isolation of faults and problems well before final test, saving hours in rework and hard dollars in yield. Based on the OFDR principle, the high-precision reflectometers of the OBR series offer you the greatest spatial resolution achieved worldwide in a compact, portable unit. You can use the device to localize and measure reflection and loss results with maximum precision. Luna Technologies' Distributed Temperature and Strain Sensing.



Article Content

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Aug 17, 2025

Optical Frequency Domain Reflectometer

Premium Lab Equipment with High Resolution and High Dynamic Range An Optical Frequency-Domain Reflectometer (OFDR), based upon the Optical Backscatter

Nov 18, 2025

Luna: Distributed Fibre Sensing and Optical Testing

High-definition distributed strain sensing & fibre optic testing technologies for aerospace, communications, geo and manufacturing applications.

Oct 08, 2025

OBR 4600 OFDR Reflectometer

The Luna OBR 4600, an Optical Backscatter Reflectometer (OBR), is a powerful

Mar 09, 2026

High-Precision Reflectometers (OBR)

Based on the OFDR principle, the high-precision reflectometers of the OBR series offer you the greatest spatial resolution achieved worldwide in a compact,

Apr 18, 2026

The pros and cons of optical wireless communication

Enterprises are considering optical wireless communication as a networking option. Learn about the benefits and challenges of implementing this

Aug 14, 2025

OBR 6200 Series Reflectometer | Luna Inc.

The Optical Backscatter Reflectometer (OBR) 6200 Series utilizes optical frequency domain reflectometry (OFDR) technology to measure distributed return loss (RL)

Apr 28, 2026

OBR 5T-50

Chapter 1 System Overview Luna Innovations' Optical Backscatter Reflectometer, model (OBR 5T-50), is a high resolution reflectometry device with backscatter-level sensitivity for interrogating optical

Mar 10, 2026

Fiber Optic Sensing Monitors Strain and Reduces Costs

Fiber optic sensing instruments includes the OVA group, a set of instruments for linear characterization of single-mode optical components, and two different

Mar 03, 2026

Optical Backscatter Reflectometer™: OBR 4600

Designed for component and short-run network testing and troubleshooting, the OBR 4600 enables ultra-high resolution reflectometry with backscatter-level sensitivity.

Jul 15, 2025

Fiber Optic Latency and Length

For example, the OBR 4600 is able to measure fiber optic latency or length this way with an accuracy of <0.0034% of the total length (or latency). For a 30 m optical

Sep 04, 2025

Optical Backscatter Reflectometers

Luna's Optical Backscatter Reflectometers™ (OBR) deliver unprecedented inspection and diagnostic capabilities for the fiber optics industry. Luna's state-of-the-art OBR provides isolation of faults and

Feb 06, 2026

OBR: Back Scatter Refractometer

Enter the realm of advanced optical analysis with Luna's OBR 4600 Refractometer—a technological marvel poised to revolutionize how we perceive and understand light interactions within fiber networks.

May 13, 2026

Optical Backscatter Reflectometer

Luna Technologies' Optical Backscatter Reflectometer (OBR) was the industry's first ultra-high resolution optical time domain reflectometry (OTDR) device with

Jan 29, 2026

Optical time-domain reflectometer

An optical time-domain reflectometer (OTDR) is an optoelectronic instrument used to characterize an optical fiber. It is the optical equivalent of an electronic time domain reflectometer which measures

Apr 07, 2026

Optical Backscatter Reflectometer

The optical backscatter reflectometer comes configured with an integrated internal tunable laser source, a computer and a monitor. Luna

May 09, 2026

Optical Communication and Networking Equipment Market

It is the largest consumer of market. Also, the optical communication and networking equipment industry growth in the region can be attributed to the enhanced

Oct 25, 2025

Optical communication

Optical communication, also known as optical telecommunication, is communication at a distance using light to carry information. It can be performed visually or by

Sep 21, 2025

Luna High Resolution OBR, Distributed Fibre Optic Sensing, and THz ...

Luna is an international leader in fiber optic test applications, with award-winning research in high resolution OBR, distributed fiber optic sensing, and terahertz measuring technologies.

Mar 29, 2026

OBR 4600 Optical Backscatter Reflectometers Luna

The OBR 4600 reflectometers feature spatial resolution as fine as 10 μm , no dead zone and an extremely low noise floor. The OBR 4600 comes with an extensive

Mar 21, 2026

PSI Solutions, Inc. | Partnering with Leading Manufacturers of Test ...

Optical communications technology is rapidly evolving to meet the ever-growing demand for ubiquitous connectivity and higher data rates. As signaling rates increase and modulation schemes become

Oct 09, 2025

OBR 4600 OFDR Reflectometer

The Optical Backscatter Reflectometer (OBR) 4600 is an ultra-high resolution reflectometer that features a spatial sampling resolution of 10 microns, zero dead

Apr 15, 2026

High Precision Latency and Length Measurements

The OBR 4200 offers unprecedented length and latency measurement capabilities. The industry's only OTDR with Sub-picosecond latency and millimeter accuracy length measurements.

Sep 07, 2025

Optical Time Domain Reflectometer | OBR | Supplier

Luna Technologies' Distributed Temperature and Strain Sensing Software, when combined with the Optical Backscatter Reflectometer™ (OBR), transforms your

Aug 01, 2025

obrtooptic | ITOM Marketplace

Operations Bridge Reporter (OBR) customers are evolving to OPTIC Reporting, with various benefits like faster TTV, improved TCO with consolidation of metrics, event, and topology data, cross-domain

Dec 31, 2025

Optical Backscatter Reflectometer™: OBR 4600

Luna Technologies' Optical Backscatter Reflectometer& trade;; OBR 4600 is the latest model in their award winning product line. Designed for component and short-run network testing and

Nov 23, 2025

OBR 4610 Optical Backscatter Reflectometer

With a sampling resolution as low as 10 microns, zero dead zone, and extremely low noise, the OBR 4610 lets you "see inside" your components and systems and map reflection loss along the entire

Jun 25, 2026

Optical Backscatter Reflectometer (OBR)

This feature is usable for optical inspections and diagnostic capabilities. In the context, the OBR can be used to identify and trouble-shoot splices, connectors,

Nov 28, 2025

Aerospace and Avionics Fiber Optic Testing

The adoption of high-speed fiber optic networks into sophisticated aerospace systems and avionics continues to accelerate. The deployment of these relatively

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