



OBR 4600: Identifying Faults in Aircraft Fiber Optic Networks



Key Specifications

- Measures 30 m with 10 micron resolution in less than 7 seconds
- < 0.05 dB IL resolution and 0.10 dB accuracy
- 70 dB dynamic range
- Low noise floor: -130 dB
- Extended range option: 2 km with no dead zone
- Option for hard shell case and foam inserts

High Spatial Resolution with No Deadzone or Blindspots

A full range of measurements up to 30 meters with 10 micron resolution in just 7 seconds.

Characterize Network Components and Faults

Extraordinary spatial resolution can discriminate between component failure, bad connections, or crimped cables.

Lightpath Software Offers Pass/Fail Determination

User configurable software breaks complicated network analysis into pass/fail indication.

Spotscan Option Zeros in Trouble Spots

Allows for rapid scanning of fiber optic networks' sections of interest.

On the Flight Line or Production Line

When asset downtime is not an option

Industrial Assets Rely Increasingly on Fiber Optics

Increased complexity of control systems in industrial equipment is creating a need for more sophisticated diagnostic equipment.

Form Factor Constrains Accessibility & Maintainability

Aircraft form factor is driven by mission requirements. Tear down of assets for maintainability is expensive and impractical.

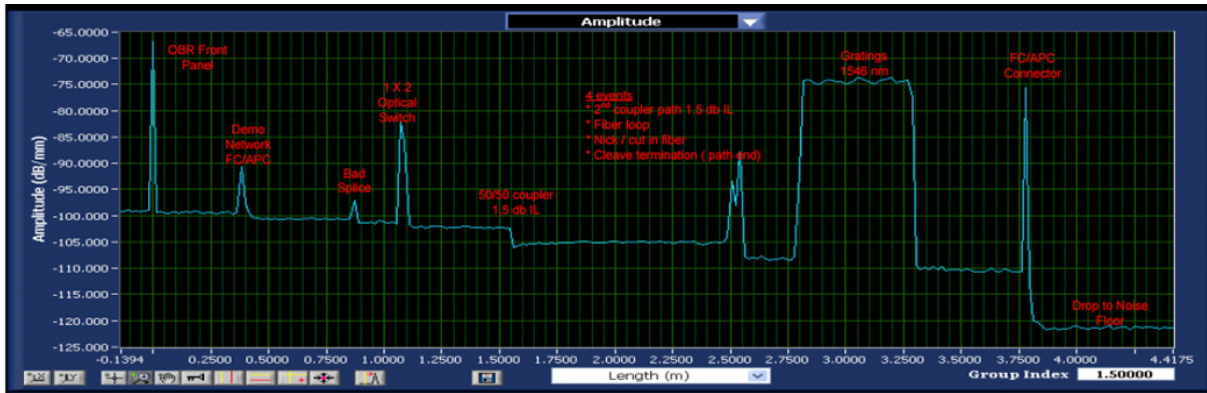
Avoiding Downtime is Critical

When you need to know the exact fault location quickly, then only an OBR 4600 will do.



OBR 4600: Scanning a Fiber Optic Network

A Fiber Optic Network Scanned by an OBR 4600

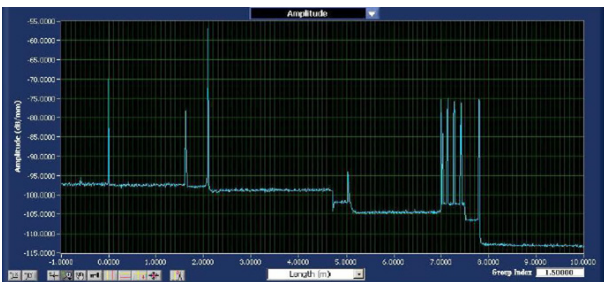
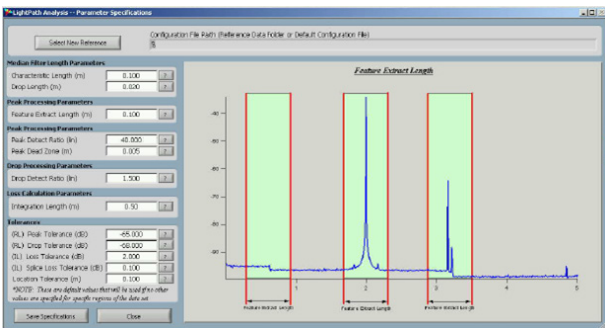


The OBR 4600 is an extraordinary instrument, capable of locating and identifying cable splices, gratings, connectors, switches, and crimped cables all within sub-millimeter resolution. Even the tie wrap of a cable harness applying excessive pressure can be detected.

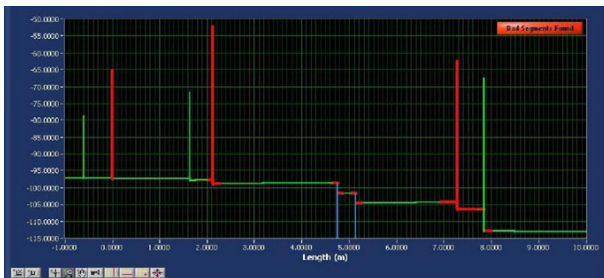
Lightpath Analysis Software

Automated Pass/Fail Detection Based on User-Defined Parameters

Reflective events (components, splices, and bends) along a fiber optic network can be characterized and defined by a set of parameters. These parameters become the basis of the pass/fail assessment and are entered into the Lightpath software.



The OBR 4600's high spatial resolution and sensitivity allow it to precisely determine the location of events with a resolution of microns.



The Lightpath software compares the actual measurement parameters and compares the results to the user-defined parameter set. A determination of pass/fail is made and the results displayed on the user interface.