

## ODH4+ DAS Interrogator Unit

Delivering Unmatched Imaging and Measurement Performance

For applications requiring unmatched Distributed Acoustic Sensing (DAS) measurement performance and image resolution, the OptaSense ODH4+ DAS interrogator unit offers the ideal solution.

### Superior Imaging

The OptaSense ODH4+ distributed acoustic sensing interrogator delivers superior measurement performance combined with ability to optimize acquisition settings for your unique application. In addition to using both single mode and multimode fibers, the ODH4+ can be used with high backscatter fiber cables resulting in unmatched measurement performance. This results in the best measurement performance on ANY fiber from ANY vendor, period.

### Multiple Measurements

The ODH4+ is a four laser interrogator. With four unique wavelengths, the ODH4+ not only provides superior imaging, it provides operators the opportunity to take full advantage of available DAS data by recording multiple measurements, such as Microseismic and Crosswell Strain Monitoring, at the same time.

### Real-Time Visualization and Control

What sets OptaSense DAS technology apart is providing the operator with real time access to DAS measurements and ability to change sensing parameters on the fly. To achieve this, operators access to OptaSense's real-time acquisition tools to visualize and interpret data to support real-time decisions during time critical operations.

### Real World Results

Below is a comparison of seismic shot data from conventional single mode optical fiber and commercially available high backscatter fiber (HBSF). The first two images demonstrate the significant improvement in signal-to-noise that come from the HBSF. The HBSF data for 4 and 8-meter gauge lengths show finer resolution of seismic features with increasing gauge length.



### Applications

- Seismic Profiling
- Hydraulic Frac Monitoring
- Microseismic Monitoring
- Frac Hit Monitoring
- Crosswell Strain
- Production Monitoring

### Features and Benefits

- Significant signal-to-noise ratio performance
- Compatible with Single Mode, Multi Mode and High BackScatter Fibers
- Delivers multiple lasers for superior imaging of multiple measurements, including fracture profiling and production flow monitoring
- Offers a high broadband frequency with a sample rate up to 100 kHz

Single Mode 2mGL

HBSF 2mGL

HBSF 4mGL

HBSF 8mGL

