The world’s finest distributed acoustic sensor, the iDAS, has a novel optoelectronics architecture that allows for digital recording of acoustic fields at every location along a singlemode or multimode optical fibre. Amplitude, frequency and phase fidelity allows for numerous advanced applications.

Benefits of iDAS

- Finest Sampling Resolution = 25cm
- Sampling Frequency = 1kHz-100kHz
- Range = up to 40km
- Easily deployed in remote and hostile environments
- Finest Spatial Resolution = 1m
- Frequency Range = 0.01Hz to 50kHz
- Dynamic Range = > 120dB
- Compatible with standard singlemode and multimode optical fibre

Product Specifications

### Sensing Capabilities

<table>
<thead>
<tr>
<th>Range</th>
<th>Channels</th>
<th>Frequency</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 40km</td>
<td>1</td>
<td>0.01Hz - 50kHz</td>
<td>Sampling: down to 25cm*</td>
</tr>
</tbody>
</table>

* Range and application dependent. Eg. Seismic iDAS has spatial resolution of 10m, sample interval of 25cm and sample rate of 10kHz on a 10km optical fibre.

### Power Supply Requirements

- AC POWER: 100 - 240V, 50 - 60Hz

### Communication Options

- Ethernet 2x 10Gb/s
- USB 2x 1Gb/s, 4x USB 2.0

### Physical Dimensions [19in rack compatible]

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.97in / 177.1mm</td>
<td>18.30in / 464.8mm</td>
<td>18.40in / 467.4mm</td>
<td>16.9kg / 37.3lb</td>
</tr>
</tbody>
</table>

### Certification & Compliance

- **Safety**
  - EN60825-1:2014
  - Class 1 Laser Product
  - 21 CFR part 1040.10
  - RED 2014/53/EU
  - EN61326-1:2013
  - EN301 489-19 v1.2.1
  - EN303 413 v1.1.1
  - EN61010-1:2010
  - 47 CFR Part 15 Sub Part B

### Data Monitoring

- iDAS Viewer
- iDAS DAQ