Koheras ACOUSTIK
Multi-channel integration for BASIK and BOOSTIK
Power and control for up to 16 Koheras BASIK lasers

Ideal for multi-channel sensor interrogation systems

The Koheras ACOUSTIK provides rack integration of up to 16 Koheras BASIK single-frequency low-noise fiber lasers.

The ACOUSTIK provides power and control to all modules for easy integration. Channels can be added or changed as needed.

Applications
Seismic sensing
Sensor interferometry
Motion and intrusion detection
Laser vibrometry
Coherent communication
Ease of use

Ideal for multi-channel sensor interrogation systems
This passively cooled system has been designed for multi-channel sensor interrogation systems and is supplied as a stand-alone 19" 3U box including controller electronics and power supply. The individual laser modules are accessible directly from the front panel.

Optional single multiplexed output
The system can be equipped with a single multiplexed output.

Easy to control via a graphical user interface
For easy control, the ACOUSTIK and all coupled laser modules can be controlled via our NKTP CONTROL graphical user interface.

NKT Photonics CONTROL
Like other NKT Photonics lasers, the Koheras ACOUSTIK can be controlled by our intuitive CONTROL software that gives easy access to all laser functions.

The software automatically detects all units attached to the computer. It is easy to use and supports touch input as well as traditional mouse and keyboard control.
Specifications

Electrical/Mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply requirements [VDC]</td>
<td>90-263 VAC, 50-60 Hz</td>
</tr>
<tr>
<td>Digital interface</td>
<td>USB</td>
</tr>
<tr>
<td>Fast modulation drive voltage [V]</td>
<td>Differential 2x5 with common-mode voltage at 2.5</td>
</tr>
<tr>
<td>Operation temperature [°C]</td>
<td>15 – 60 (module case temperature)</td>
</tr>
<tr>
<td>Storage temperature [°C]</td>
<td>-20 – 60</td>
</tr>
<tr>
<td>Dimensions (WxHxL) [mm³]</td>
<td>483 x 128.5 x 302.5</td>
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<tr>
<td>Weight [kg]</td>
<td>6.5 – 8.5</td>
</tr>
<tr>
<td>Humidity non-condensing [% RH]</td>
<td>0 – 70</td>
</tr>
</tbody>
</table>

Optical

Please refer to the Koheras BASIK and BOOSTIK data sheet.

Features

- Multi-channel integration of BASIK modules
- Controls up to 16 BASIK modules
- Built-in power supply
- Multiplexed single output option
- Simple user operation
- Robust industrial design
- Maintenance-free 24/7 operation
SOLUTIONS FOR INNOVATORS