Noptel Long Distance Laser
Rangefinder Technology

- Highly integrated technology
- Compact and lightweight sensors
- Easy integration to mobile or stationary systems
- Suitable for harsh environments, shock and vibration resistant
- Diode laser pulse flight time measurement
- Max range beyond 20 km
- Wide temperature range
- Low power consumption
- Eye safe operation

Applications

- Vehicle mounted reconnaissance systems
- Airborne, land and maritime systems
- Observation and surveillance systems
- Fire control systems
- Mobile range finding
- Target acquisition
- Handheld targeting systems
- Sights
- OEM applications

At the forefront of optical measurement technology
Noptel Laser Rangefinder Modules for OEM use

The compact, eye safe and highly integrated laser rangefinders are utilized as OEM products in various applications from demanding military measurements to portable systems. These robust hand held devices operate reliably under varying environmental conditions and they measure distances beyond 20 km.

The laser rangefinders are delivered without enclosure providing especially for OEM users the possibility to embed the unit into their own product or device. Since these rangefinder modules require low power they can be battery operated.

Technology

The Noptel laser rangefinders utilize pulsed time-of-flight technology for the measurement of distances. The devices are provided with wave length 1550 nm and other wave lengths are available on request. The optics and user interface can be customized to meet the requirements of specific applications.

Typical technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. measurement ranges [m]</td>
<td>beyond 20000</td>
</tr>
<tr>
<td>Precision [m]</td>
<td>0.5 - 2</td>
</tr>
<tr>
<td>Laser class</td>
<td>1</td>
</tr>
<tr>
<td>Wavelength [nm]</td>
<td>1550</td>
</tr>
<tr>
<td>Operating temperature [°C]</td>
<td>-32 - +65</td>
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<tr>
<td>Measurement rate [Hz]</td>
<td>1 - 10</td>
</tr>
</tbody>
</table>

Notes:
*1) Depending on distance and target reflectivity.
*2) EN 60825-1:2007, IEC 60825-1:2007
*3) Higher measurement rates have limited range.

The product requires an export license. Pictures are referential. All specifications are subject to change without notice.