Laser Range Finder is designed and built with technology to provide enhanced functionality and accuracy in demanding environments. These measurements can be used for traffic monitoring, collision avoidance control and level monitoring.
Designed for mining, the flexibility to **go beyond**.

**FEATURES**

- Non-contact and non-intrusive
- Offers a broad range of pulse and update rates
- Adjustable range gating
- Quick recovery in heavy dust environment
- Rapid measurement
- User configurable - RS232 & RS485
- Factory calibrated for your application
- Auto-discovery protocol ensures no setup is required
- Built-in visible laser aiming system
- Range up to 1700m
- Sealed and pressure tested

**MONITOR & MEASURE**

**Position Monitoring**

- Tripper Cars
- Cranes
- Stacker/Reclaimers
- Ship Loaders
- Plough Feeders
- Torpedo Cars

**Level Monitoring**

**Liquids**

- Liquid Asphalt
- Reactor Vessels (under vacuum)
- Molten Glass
- Metals and alloys
  (ferrous and non-ferrous)

**Solids**

- Polystyrene, nylon pellets
- Talc and lime powders
- Ore-pass measurements
- Wet or dry wood chips
**BENEFITS**

- Easy and accurate tracking of moving objects
- Level monitoring for solids and liquids
- Operational in noisy, dusty, hot and cold conditions
- Filtering of obstacles in high traffic areas
- Measure small targets at long ranges (up to 1700m)
- Increase safety and eliminate human error
- Factory calibrated and ready to use
- Includes software and cables for additional setup using Linux, Mac, Unix, and Windows
- Low maintenance, set it and forget it!

**OPERATION**

- Accutron Lasers calculate distance by measuring time of flight of very short pulses of infrared in order to increase accuracy. Traditional surveying measures phase shifts by comparing the incoming wavelength with the phase of the outgoing light.

**EXAMPLES OF TYPICAL USES**

**UNAFFECTED BY**

- Moderate dust
- Temperature
- Vibration
- Noise
- Mounting Angle
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Ranges</th>
<th>Maximum</th>
<th>To reflector</th>
<th>Minimum</th>
<th>Measuring Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1000+ m</td>
<td>1700 m</td>
<td>10 cm</td>
<td>Meters, Feet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accuracy</th>
<th>Non-Cooperative target</th>
<th>Cooperative target</th>
<th>Resolution</th>
<th>Repeatability</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≤ 4 cm</td>
<td>≤ 2 cm</td>
<td>1 mm</td>
<td>≤ 3 mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Laser</th>
<th>Infrared (IR)</th>
<th>Internal Laser pointer</th>
<th>Eye safety (IR)</th>
<th>Beam divergence</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>905 nm wavelength</td>
<td>650 nm wavelength</td>
<td>Class I (FDA CFR 21)</td>
<td>3 mrad (0.26°)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical Ratings</th>
<th>Power In</th>
<th>Power Consumption</th>
<th>Impedance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 - 24 VDC</td>
<td>12V - 20mA - 4 watts</td>
<td>1500 Ω Max loop resistance</td>
</tr>
<tr>
<td></td>
<td>110 - 240 VAC</td>
<td>1500 VDC isolation</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Communication Interface</th>
<th>Serial</th>
<th>Analog outputs</th>
<th>Optional</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>RS 232</td>
<td>Isolated 4-20 mA</td>
<td>Bluetooth Programmable - Class 1</td>
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</table>

<table>
<thead>
<tr>
<th>Physical</th>
<th>Enclosure</th>
<th>Operating Temperature</th>
<th>Dimensions</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>NEMA 4</td>
<td>-30°C to 60°C</td>
<td>10”L X 4.75”W X 4”H</td>
<td>5.6 lbs</td>
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<tr>
<td></td>
<td>Non-corrosive IP67</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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