

[www.accutroninstruments.com](http://www.accutroninstruments.com)

# ILR LASER™

## NARROW BEAM LASER RANGE FINDER



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



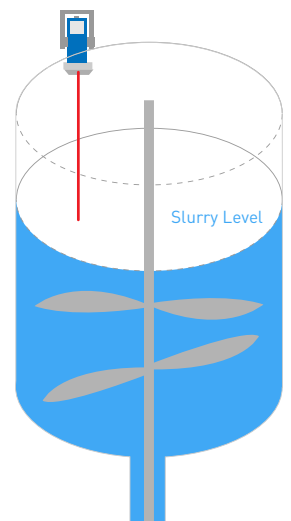
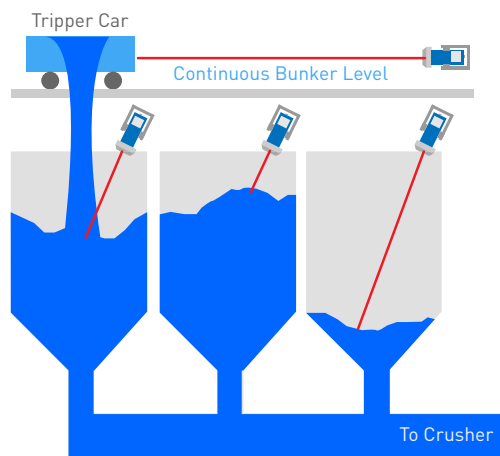
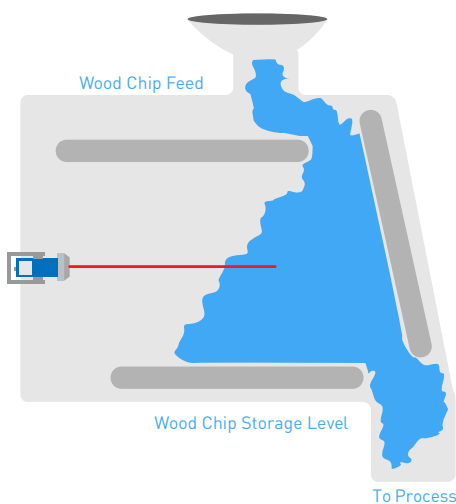
## BENEFITS

- ✔ 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

<b>Ranges</b>	<b>Maximum</b> 1000+ m	<b>To reflector</b> 1700 m	<b>Minimum</b> 10 cm	<b>Measuring Units</b> Meters, Feet
<b>Accuracy</b>	<b>Non-Cooperative target</b> ≤ 4 cm	<b>Cooperative target</b> ≤ 2 cm	<b>Resolution</b> 1 mm	<b>Repeatability</b> ≤ 3 mm
<b>Laser</b>	<b>Infrared (IR)</b> 905 nm wavelength	<b>Internal Laser pointer</b> 650 nm wavelength	<b>Eye safety (IR)</b> Class I (FDA CFR 21)	<b>Beam divergence</b> 3 mrad (0.26°)
<b>Electrical Ratings</b>	<b>Power In</b> 12 - 24 VDC 110 - 240 VAC	<b>Power Consumption</b> 12V - 20mA - 4 watts	<b>Impedance</b> 1500 Ω Max loop resistance 1500 VDC isolation	
<b>Communication Interface</b>	<b>Serial</b> RS 232	<b>Analog outputs</b> Isolated 4-20 mA	<b>Optional</b> Bluetooth Programmable - Class 1	
<b>Physical</b>	<b>Enclosure</b> NEMA 4 Non-corrosive IP67	<b>Operating Temperature</b> -30°C to 60°C	<b>Dimensions</b> 10"L X 4.75"W X 4"H	<b>Weight</b> 5.6 lbs



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