

www.accutroninstruments.com

IRL 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



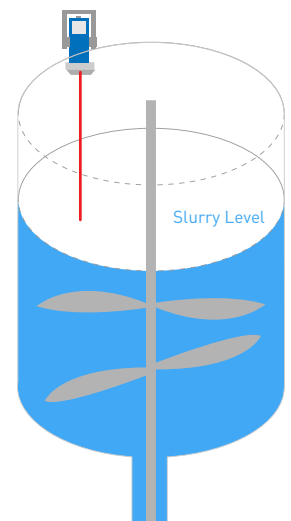
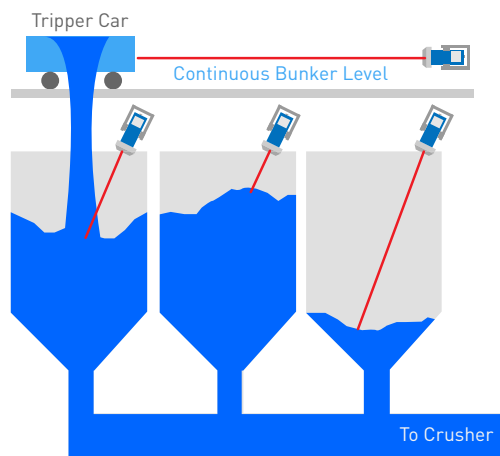
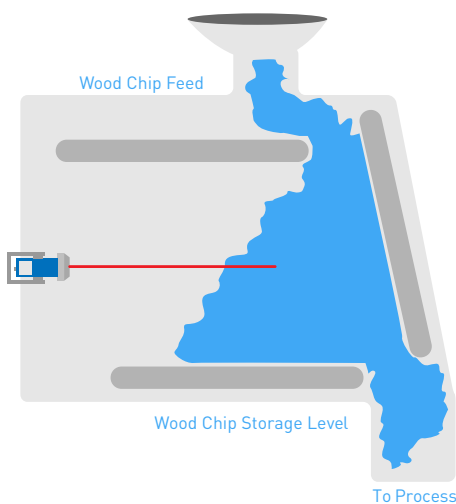
BENEFITS

- ✔ 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

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



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