



ILR Laser

Narrow Beam Laser Range Finder.

Laser Range Finder is designed and built to provide enhanced functionality and accuracy in demanding environments.

DESIGNED FOR MINING, THE FLEXIBILITY TO GO BEYOND.

Accutron Lasers calculate distance by measuring the 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. These measurements can be used for traffic monitoring, collision avoidance control and level monitoring.



UNAFFECTED BY



Mounting Angle



Vibration



Temperature



Dust



Noise



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



POSITION MONITORING

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

LIQUID LEVELS

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

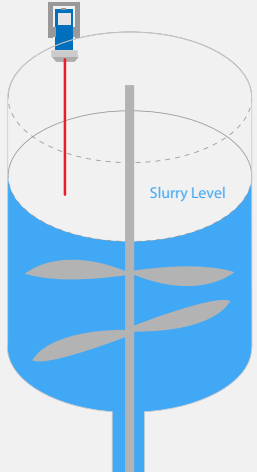
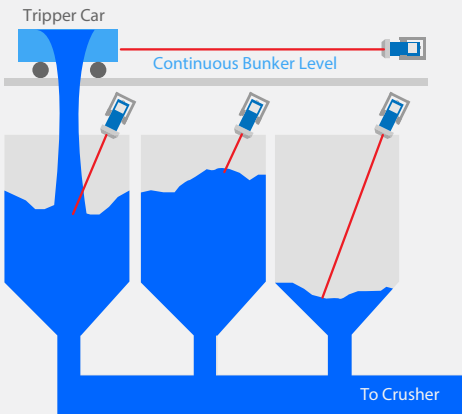
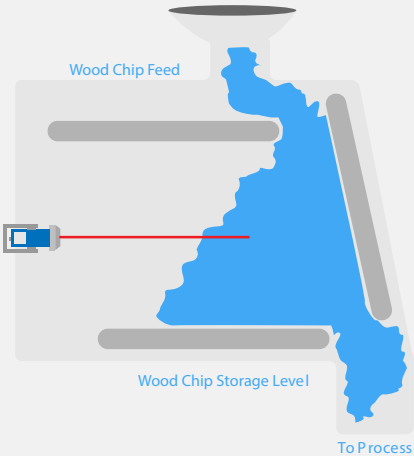
SOLID LEVELS

- 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!

EXAMPLES OF TYPICAL USES



ILR LASER 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 Bluetooth Programmable Class 1
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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