

NEW

USNR

BioLuma™ 3900L Lineal Sensor

USNR's highest-speed lineal HD laser profiling sensor provides complete profile measurements of material moving lineally through a scan zone. Available with single or dual laser lines to accomodate your exact needs.

Solid Wood Products

Sawmill Systems
Dry Kilns
Planermill Systems

Optimization & Process Control

Information Systems
Scanning & Optimization
Machine Controls

Veneer/Panel Products

Lathe Systems
Veneer Dryers
Panel Systems
Press Systems

Biomass & Residuals

Bark/Chip Systems
Energy Systems



Advanced Lineal Laser Profile Scanning

Precise HD laser profile scanning of boards and flitches at scan rates that exceed today's high-speed lineal edger and trimmer system speeds. The BioLuma 3900L delivers the best overall performance in the industry.

Smarter Technology, Superior Results

True differential HD laser profile measurements every 0.009"–0.025" / 0.23–0.64 mm along the full length of the piece. With a 20–69" / 500–1750 mm field of view and a scan rate of 400 Hz, BioLuma 3900L is today's ultimate solution for advanced lineal laser profile scanning. That translates to smarter decision processing and more value and recovery for your products.

Applications

- ▶ Log Lines: all brands and styles of lineal systems
- ▶ PGLR: real-time log rotation verification and correction system
- ▶ Optimization: all USNR optimization platforms
- ▶ Upgrades: retrofits lineal TriCam and LPLe systems

BioLuma 3900L Sensor



HD laser profile data is captured along the entirety of the piece at a scan rate of 400 Hz.

Built for speed and accuracy

The BioLuma 3900L delivers the highest speed HD laser profiling for the most demanding lineal sawmill edger and trimmer applications. It provides the highest accuracy with precise, true differential measurements through alignment of laser points, top and bottom, as each piece is scanned lineally.

State-of-the-art, long-life design

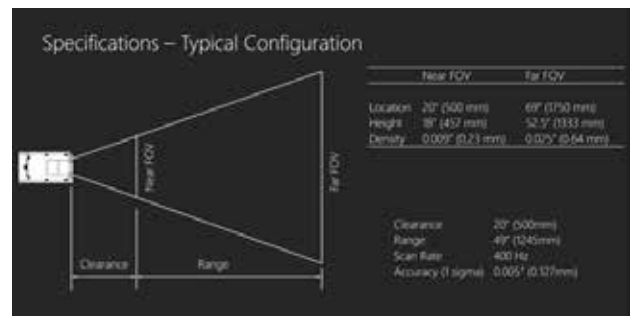
BioLuma sensors use modern componentry and system architecture, taking advantage of recent advances in the speed and reliability of electronics hardware.

Features and Benefits:

- ▶ Fastest scan rate and best overall performance in the industry
- ▶ HD data collection and fastest scan rate delivers more value and recovery through optimization
- ▶ HD laser profiles with true differential measurements provide the highest accuracy data
- ▶ Supports all USNR optimization platforms
- ▶ Gigabit-Ethernet – 10x to 100x faster than conventional networking
- ▶ Rugged, fully sealed aluminum housing protects the components against vibration, dust, and grime
- ▶ Simple one-step calibration
- ▶ Flexible configurations: new or upgrade

Specifications

Scan rate.....	400 Hz
Measurement field.....	20-69" / 500-1750 mm
HD laser profile spacing...	0.009"-0.025" / 0.23-0.64 mm
Accuracy	0.005" / 0.127 mm
Laser class.....	IIIb - visible laser
Interface.....	Gig-E (Gigabit Ethernet)
Temperature.....	32-120° F / 0-50° C, non-condensing
Input power.....	24 VDC, 0.5A



Note: USNR continually adds new features to enhance our products, based on customer requests. Our closeness to our customers' needs and attention to the demands of the marketplace keeps us in the forefront of wood processing technology. Because of that, please note that the specifications for our products will change rapidly as we improve our systems further.