

Information Systems

Primary Breakdown

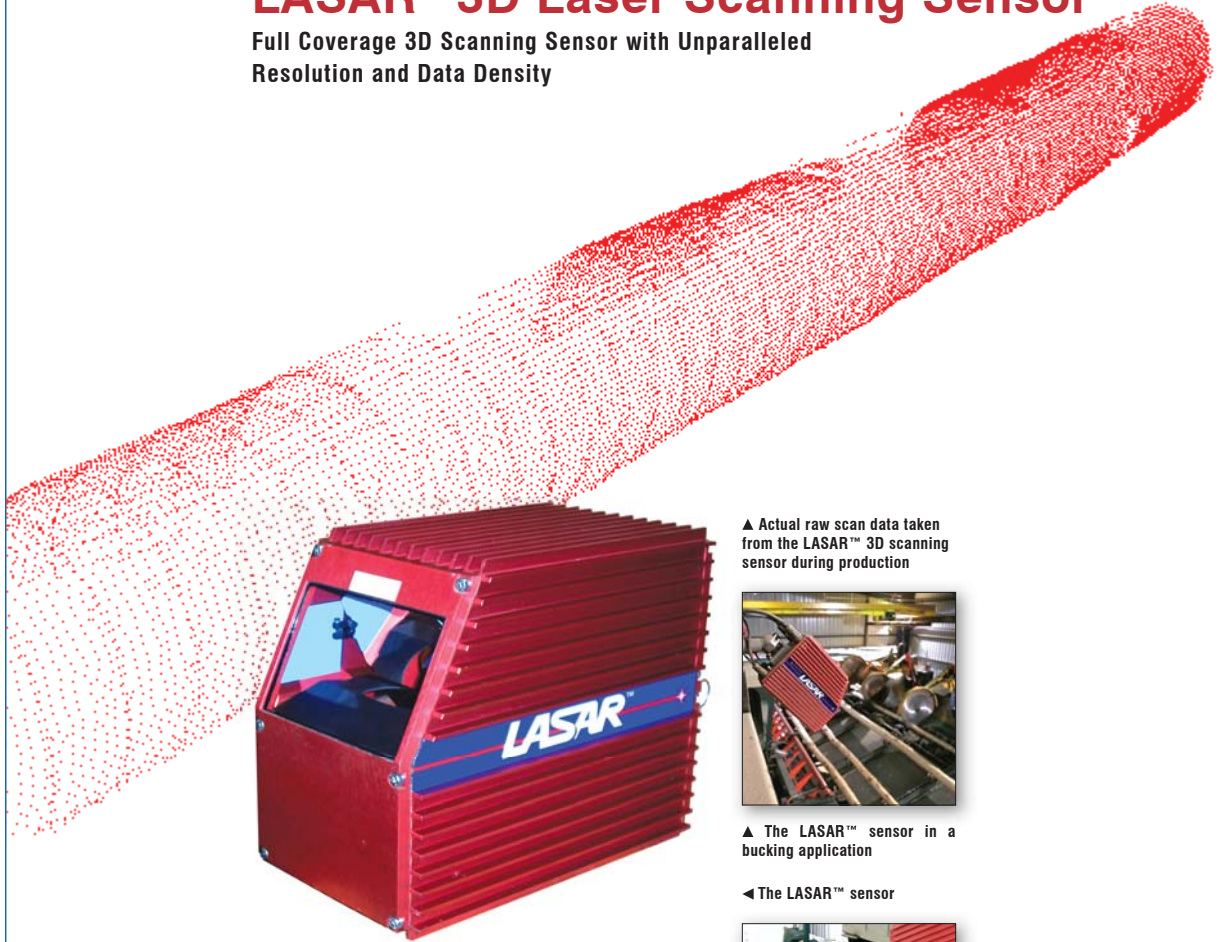
Secondary Breakdown

Control Systems

3D LASER SCANNING

LASAR™ 3D Laser Scanning Sensor

Full Coverage 3D Scanning Sensor with Unparalleled Resolution and Data Density



The LASAR™ sensor is a unique and rugged, full-coverage high-resolution 3D scanner that is ideal for close coupled sawing systems and large transverse deck bucking systems. LASAR™ sensors rapidly scan stems and logs with unparalleled resolution and data density.

LASAR™ is immune to high levels of ambient light and is used on sharp chains, carriages, end doggers, chip-n-saws, gangs and merchandiser systems. This high-performance scanning sensor has a worldwide installed base.

▲ Actual raw scan data taken from the LASAR™ 3D scanning sensor during production



▲ The LASAR™ sensor in a bucking application

◀ The LASAR™ sensor



▲ The LASAR™ sensor scanning on the fly in a headrig carriage application

Highly Accurate Sensor System

- ▶ Functional for Bucking, EDLF, Carriage, Top-dogger, End-dogger, Sharp Chain and Gang applications
- ▶ Able to scan full 3D images of the entire stem, log or cant in one place, even extremely crooked and swept stems that won't fit through a scan zone
- ▶ Full coverage scanning allows for more accurate log volumes, and therefore better monitoring of yield and overall mill performance
- ▶ Log lengths detected to 1/2"
- ▶ Log diameters within 0.1" with single point resolution of 0.036"
- ▶ Accurate on light, dark, wet, fuzzy and barky logs
- ▶ Immune to even the brightest light

Extremely Fast: One-Scan, One-Set

- ▶ Automatic detection of sweep, taper, diameter, length, ovality, flare, fluting, nodal swelling, knot protrusions, broken ends and kink

Dynamic Scan Zones Adjust On-The-Fly

- ▶ Multiple, small, medium, and large scan zones ensure maximum coverage area and scan density on each size of log or cant
- ▶ Scanning the stop-n-loader allows pre-positioning of the machinery and pre-configuring of the scan zone for overall faster throughput with less operator effort – even mishapen tops can be scanned

Wide Field of View and Depth of Field

- ▶ 8' depth of field insures even the largest targets can be seen
- ▶ No critical log or stem positions, as long as it's within the scan zone

Flexible Mounting with Simplest Installation

- ▶ Highly configurable scanner arrangement is able to image everything from single sided Carriages to 6-head 2-sided Bucking lines
- ▶ Can be mounted on building columns or simple steel tubing – no need to buy and install a large frame

Rugged, Reliable and Low Maintenance

- ▶ No daily cleaning – No scraping pitch off the lenses
- ▶ Designed specifically for the sawmill enviroment
- ▶ Built-in system redundancy on 2-head systems – can run with only front head if required (you can temporarily move back head to front)

Microsoft
GOLD CERTIFIED

Partner

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.

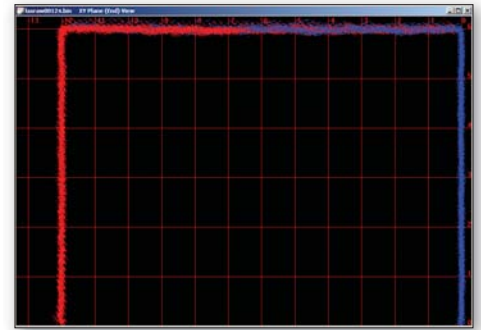
Allen-Bradley

LASAR™ 3D LASER SCANNING

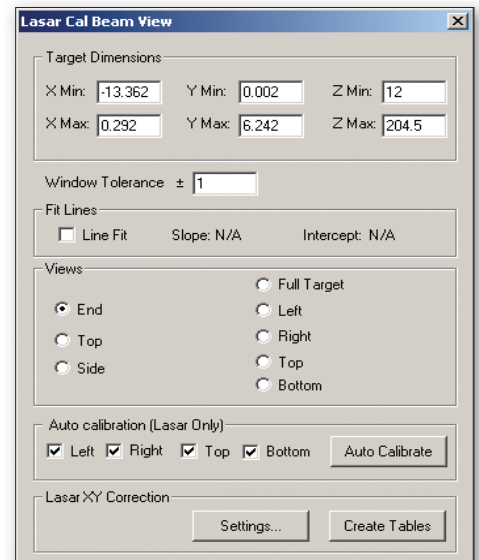
Easy 3-Step Automatic Calibration Insures Continuous Accuracy



1. Cut an opening face, a 4-sided timber, or use the CAL BAR



2. Scan it



3. Click here to complete automatic calibration