

# JS-25 X6B Scan Head

# JoeScan

Technical Specifications Data Sheet

3-D Vision Profiling

## 3-D LASER SCANNING MADE FOR SAWMILLS

### Product Overview

The JS-25 X6B Scan Head is a high-performance, six-laser scanner, specifically designed for high-density, snapshot-scanning on carriage headrigs. The JS-25 X6B scan head takes six profiles, each spaced 6" (152mm) apart, with each profile measuring up to 35" (889mm) wide. The JS-25 X6B provides a high-density scan in less than 6" (152mm) of travel.

The JS-25 X6B is based on JoeScan's proven and reliable JS-25 scanner platform, engineered to make sawmill scanning systems easier to install and maintain. The JS-25 X6B is operational with only an Ethernet connection and 24VDC, and it can be installed in minutes.

#### JS-25 X6B eliminates need for special hardware:

The JS-25 X6B uses an Ethernet interface, allowing the optimizer to communicate directly with the scanner without special hardware. The scan head's built-in profile processing eliminates the need for large numbers of PCs to process the image data, resulting in a simpler, more reliable system. The interface enables users to configure and calibrate the scanner on their PCs and to view real-time profile data and camera images.

**All-in-one connector:** Power input to the scanner is via two iCONN Systems waterproof (8-pin) connectors. The cables can also be used to carry a quadrature encoder signal for carriage motion as well as a synchronization signal.

**QuickPulse technology prolongs laser life:** All JS-25 scanners use JoeScan's reliable QuickPulse technology, which allows multiple sensors to scan without interference and helps to maximize the laser life.



The JS-25 X6B has two cameras and six lasers, allowing a standoff up to 120" (3m).

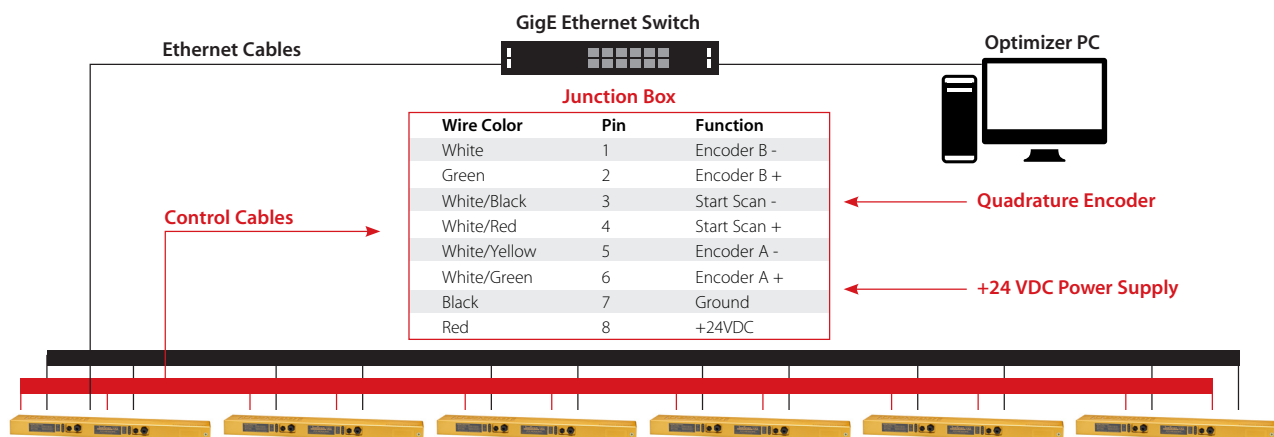
#### Key Features

- Six lasers spaced 6" (152mm) apart
- Built-in profile processing
- Ethernet interface
- Rugged aluminum housing
- Image View feature for easy troubleshooting
- QuickPulse technology to maximize laser life
- 5-year defect warranty
- 10-year product support policy

#### Typical Applications

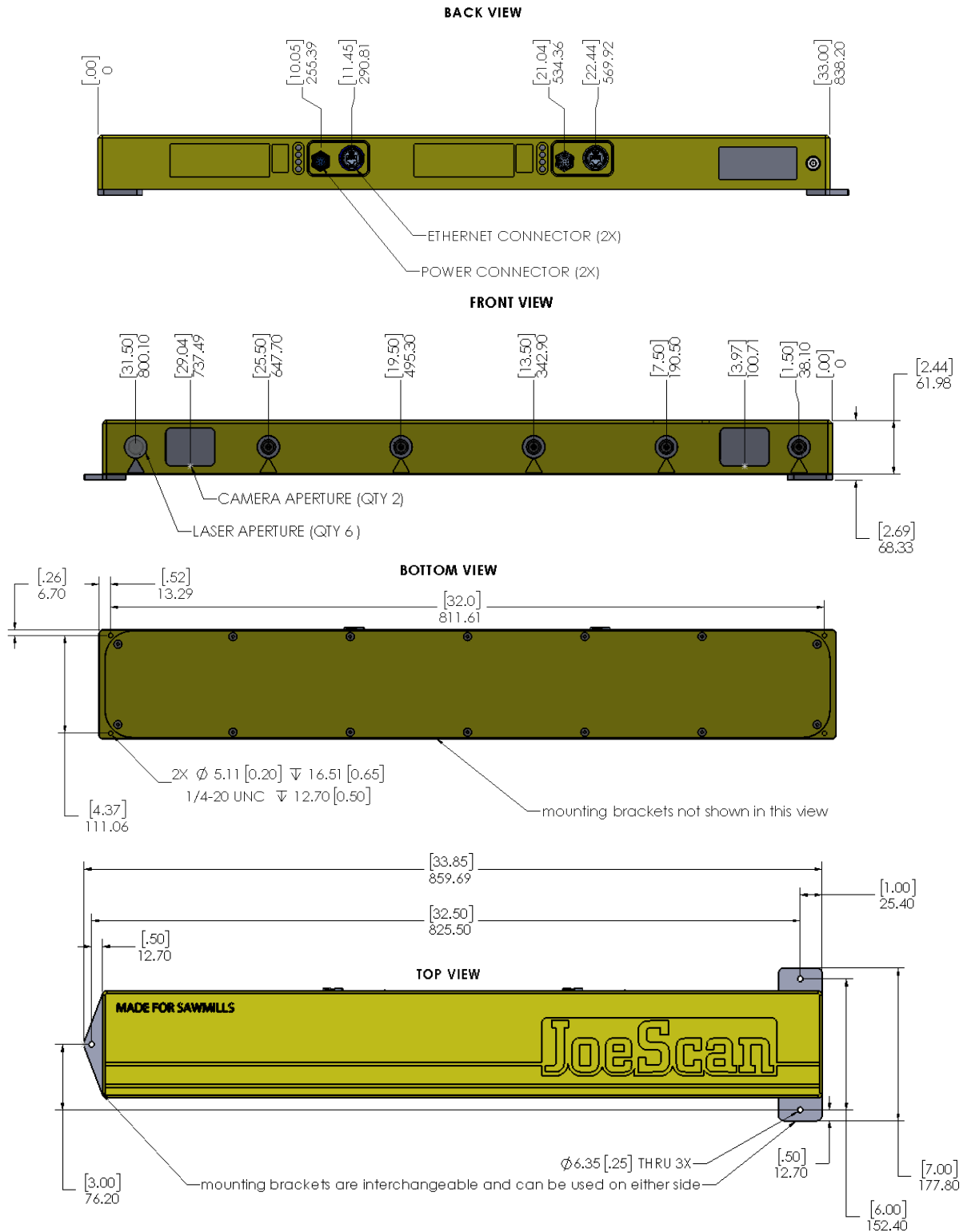
- High-density, snapshot-scanning on carriage headrigs

The JS-25 X6B requires only Ethernet and power to connect to the optimizer's system.



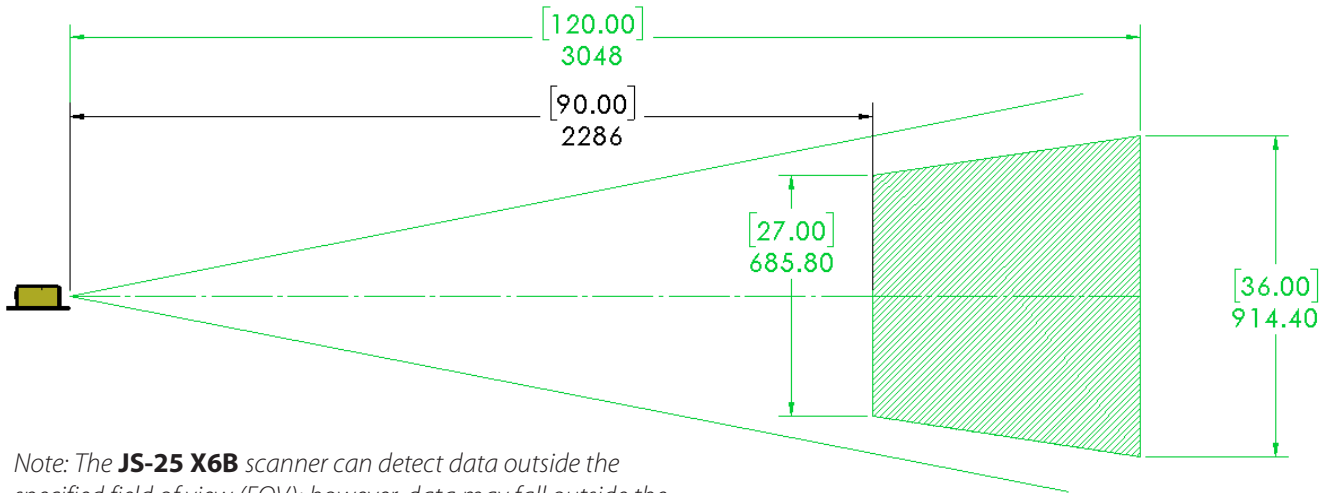
# JS-25 X6B Scan Head

## Product Dimensions



# JS-25 X6B Scan Head

## Field-of-View Details



Note: The **JS-25 X6B** scanner can detect data outside the specified field of view (FOV); however, data may fall outside the resolution and accuracy specifications.

## Product Warranty and Support

JoeScan products are proven to be durable and reliable, which allows it to offer an industry-leading warranty and a long-term product support policy.

All products are covered by a **5-year limited warranty\*** that begins when the product ships from JoeScan. If a scan head is found to be faulty, JoeScan will either repair or replace the product at no charge. It's that simple.

What's more, JoeScan offers a **10-year product support policy**. After the warranty period, JoeScan will provide support – including technical assistance and product repair services – at the customer's expense for 10 years after the product's original shipping date. If JoeScan is unable to provide product support, then it will supply a replacement scanner that has equivalent or enhanced capabilities.

Additional details about the warranty and product support policy are available upon request.

*\*Warranty is limited to product defects and damage caused by normal wear and tear. It does not cover damage caused by accidents or improper use.*



JoeScan offers an industry-leading warranty and a long-term product support policy. The 5-year warranty helps eliminate unexpected maintenance costs. JoeScan adds to that a 10-year product support policy to protect against obsolescence.

# JS-25 X6B Scan Head

## Product Specifications

General	
Dimensions	2.5" x 5" x 33" (64mm x 127mm x 838mm)
Weight	13.5 lbs. (6,1 kg)
Laser Type	Pulsed, Class 3R
Laser Color	Visible red
User Interface	PC
Data Interface	10/100BaseT Ethernet

System Performance		
Depth of View	90" to 120"	(2,3m to 3m)
Field of View	36" @ 120" standoff	(914 mm @ 3m)
Accuracy	+/- 0.100" @ 120" standoff	(+/- 2,54mm @ 3m)
Scan Rate	Up to 283 profiles/sec/laser	
Data Density	20 points/inch at 20" standoff	(20pts/25mm @ 508mm)
Data Points	Up to 242 per laser	

*\* Different standoff configurations are possible by request.*

Environmental	
Operating Temp	-20° to 50°C (0° to 120°F)
Storage Temp	-40° to 80°C (-40° to 176°F)
Lighting	Fully operational between indoor lighting (no sunlight) and complete darkness

Power Supply	
Voltage Range	20 - 28VDC
Max Current	0.7A @ 24VDC
Voltage Ripple	< 5Vpp

Quadrature Encoder/Start Scan Inputs	
Primary Signaling Standard	RS-422 differential
Alternate Signaling	Open collector on "+" channel (+ channels have built-in 2k pull-up to 5V)
Input Voltage Range	0 - 5VDC
Max Encoder Rate	100,000 pulses/sec. differential

PC Requirements
The diagnostic and calibration software (JSdiag) will run on any operating system with Java® installed.

Optional Accessories
JS-25 Control Cable (iCONN Systems waterproof 8-pin connector)
LTW Sealed Ethernet Cable
Mount Kit

iCONN Systems Waterproof Connector x2		
Wire Color	Pin	Function
White	1	Encoder B -
Green	2	Encoder B +
White/Black	3	Start Scan -
White/Red	4	Start Scan +
White/Yellow	5	Encoder A -
White/Green	6	Encoder A +
Black	7	Ground
Red	8	+24VDC

Warranty/Support
5-year product warranty; free repair or replacement of defective products
10-year product support policy

DESIGNED &  
ASSEMBLED  
IN THE  
**USA**

	<p><b>LASER RADIATION</b> AVOID DIRECT EYE EXPOSURE <b>CLASS 3R LASER PRODUCT</b> Maximum Output: 5mW Emitted Wavelengths: 400-710 nm IEC-60825.1-2001-08</p>
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Illustrations, descriptions and technical specifications are not binding and are subject to change without notice.

**JoeScan**