



TRUELIGHT
MACHINE VISION INTEGRATION

AI-POWERED 3D WELD SEAM INSPECTION

Inline quality control for arc and laser welding — faster defect detection, zero production slowdown, powered by machine learning.



INLINE SPEED

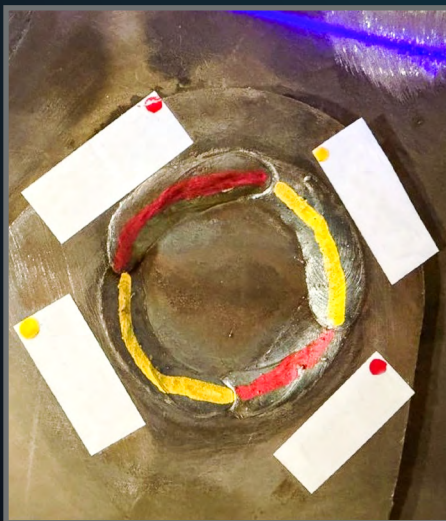
Up to 500mm/s at 5kHz scanning

3D CALIBRATED SCANNING

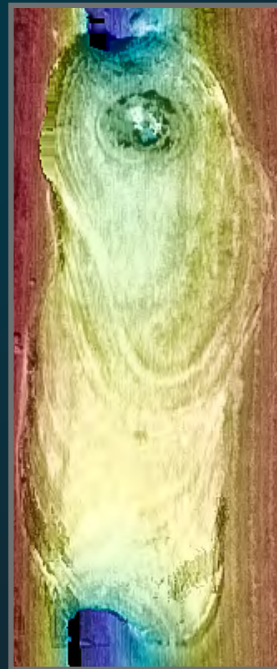
Complete weld capture — robot- or pedestal-mounted

CIRCULAR & OVERLAP SEAMS

Full support for these types of weld geometries



OK



NOK



Defects as small as 0.5mm in diameter

Request a feasibility study:
sales@truelightvision.com

Catch defects on the line. Not in the field.

Zero slowdown · Zero compromise · Real-time pass/fail

AI-POWERED 3D WELD INSPECTION

100%

weld coverage = every weld inspected, every cycle

<1s

inspection time per part location = no line slowdown

3D AI

AI + traditional vision = fewer false rejects

WHY MANUFACTURERS CHOOSE US

Inspect during production, not after

Defects caught at the source — before downstream assembly or the customer.

Fits any line size

Scalable from low-volume precision work to high-throughput automated lines.

Support that never goes quiet

Proximity Smart Support™ — real-time expert help, remotely, when you need it.

WHAT'S INCLUDED

Part fixturing & tooling

Custom-fit to your parts — your team doesn't figure integration out alone.

Installation & programming

We commission the system on your floor, configured to your process.

Training & ongoing support

Your team is confident from day one. Support continues as your process evolves.

EASY TO USE AND TRUST

Feature	Value	Status
Burn Through	0.00	PASS
Crack Sectional Area	LL: 9.00 13.00	PASS
Face Profile	-1.00	FAIL
OF Location	3.32 UL: 4.00	PASS
Porosity	0.00	PASS
Spits	0.00	PASS
Spatter	1.00	FAIL
Throat Thickness	LL: 2.50 4.50	PASS
Weld Defected		PASS
Weld Height	LL: 2.00 3.72 UL: 99.00	PASS
Weld Length	LL: 29.00 UL: 99.00	PASS
Weld Width	LL: 6.00 8.00 UL: 99.00	PASS

Challenge us to prove the speed and accuracy of this technology for your application



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