

NDT Supply.com

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Wiki-Scan (6-14)



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1 PRODUCT DESCRIPTION

WIKI-SCAN is a portable, non-contact weld bead and joint preparation inspection system that uses state-of-the-art laser sensor technology to measure geometric features of joint preparation and weld beads for process improvement and quality control.

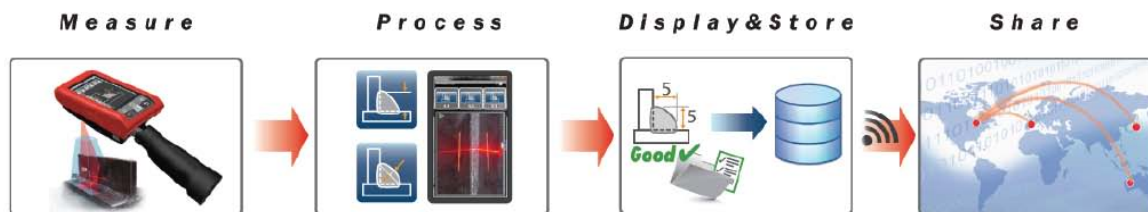
By simply aiming the laser stripe of the handheld device at the joint preparation or at the weld bead and pressing the button, the operator quickly obtains measurements which are automatically compared to preset thresholds based on the specific applicable Welding Standard.

The WIKI-SCAN handheld inspection system is designed to improve the reliability and speed of weld inspection in manufacturing industries such as steel structure construction, shipbuilding, automotive and military as well as any other industrial applications where accurate weld quality assessment is important.

Immediate Go/No-Go results are available as well as saved pictures and results that can be later printed for hard copy documentation or analyzed by an SPC tool.

BENEFITS

- Any weld inspector will be proficient with the WiKi-SCAN within minutes.
- Real time viewing for rapid evaluation of a joint or a weld.
- Fatigue critical features such as toe angle, undercut, and cracks can be quickly measured.
- Over welding can be quantified so excessive welding time, consumable and energy usage can be reduced thus saving money.
- Can inspect any weld the operator's hand can reach.



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2 PRODUCT SPECIFICATIONS

2.1 WIKI-SCAN HANDHELD WIRELESS WELD INSPECTION SYSTEM:

This handheld wireless weld inspection system consists of a compact 3-D laser sensor integrated in an ergonomic handheld device. Featuring a high-accuracy optical laser triangulation technology, the WIKI-SCAN uses the latest digital sensor technology to measure the geometry of the inspected features.

This tool is designed to measure the geometrical characteristics of joint preparation and weld beads typically between 5 to 40mm face widths.



OPTICAL CHARACTERISTICS		
Stand-off		53mm
Field of view width	Close plane	37 mm
	Far plane	71 mm
Depth of field		120 mm
Laser class		2M
USER INTERFACE		
High resolution touch screen		800x480
Data storage memory		16GB
Li-ion battery life		2-4 hours
Communication protocols		Wi-Fi (802.11 b/g)

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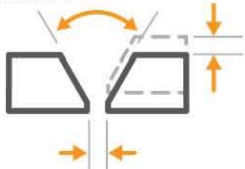


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The user interface runs directly on the WiKi-SCAN device. It enables the operator to view the inspection results directly on the high definition touch screen. The 2D live video is also directly displayed on this interface for an easier use of the system and for reporting function

It allows the user to select the feature to inspect and set acceptance limits based on the specific applicable Welding Standard.

2.2 JOINT INSPECTION:

PRE-WELD SCAN: Wiki-SCAN Measures joint preparation and fit-up, providing information before welding occurs. Why start welding if the joint is not within tolerance? 	JOINT TYPE	
	FEATURES	
		T-Joint
		Butt Joint (Square, V and Bevel Groove)
Beta Angle	30° to 140°	140° to 200°
Root Opening	0 to 0.250"	0 to 0.375"
Mismatch/Hi-Lo	N.A.	0 to 0.250"
Groove Angle	N.A.	30° to 90°
Bevel Angle (l,r)	N.A.	15° to 45°

Detection limit: 0.5 mm for all features, except for Root Opening - 1 mm. N.A. - Not Applicable

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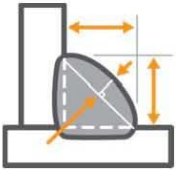


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2.3 WELD INSPECTION:

POST-WELD SCAN: Wiki-SCAN Measures the weld bead and compares to set tolerance limits. 	JOINT TYPE	
	FEATURES	
	Fillet weld 	Groove weld 
Leg and Size (l,r)	0.080" to 2.0"	N.A.
Theoretical Throat	0.080" to 1.500"	N.A.
Convexity/Underfill	0 to 0.750"	0 to 0.750"
Reinforcement	N.A.	0 to 0.750"
Undercut (l,r)	0 to 0.125"	0 to 0.125"
Toe Angle (l,r)	90° to 160°	90° to 180°
Mismatch/Hi-Lo	N.A.	0 to 0.250"
Beta Angle	30° to 140°	140° to 200°
Face Width	N.A.	20.080" to 2.250"
Porosity, Cracks and Spatter	0.020" to 0.200"	0.020" to 0.200"

2.4 RECORDING FORMAT:

PERMANENT RECORD: Wiki-SCAN Provides an electronic record of all results (Images, comments, measurement data, 3D scans). 	Recording Features	Format
	Images	5 MP (2600 x 2000 pixels)
	Voice Comment	WAV files
	Written Comment	document file
	Measurement Data	spreadsheet file

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2.5 WIKI-SCAN PACKAGE CONTENT:



Package Content:

1. WIKI-SCAN™ Wireless Weld Inspection System (P/N: 027802)
2. Li-ion Battery 21Wh (P/N: 99010020)
3. Battery Charger(a), AC Adapter(b), Power Cord(c) (P/N: 99010021)
4. Verification Block (P/N: 98780100)
5. Earphones (P/N: 99193000)
6. USB Cable (optional) (P/N: 99193001)
7. Manual & Software USB Key
8. Traveling Hard Case (P/N: 99211030)

2.6 CONTINUOUS SCANNING OPTION:

This option enables the inspector to continuously inspect weld bead instead of only spot checks. The defects will be automatically detected, measured and stored (picture of it and measurements) in the database/report. This option does not include the location of the defect on the part.

2.7 LAP WELD TEMPLATE OPTION:

This option adds the Lap Weld Template to the WiKi-SCAN software.

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2.8 WIKI-SCAN ENCODER OPTION:

This option adds an encoder and a roller to the Wiki-SCAN.



2.9 WIKI-ROBO OPTION:

The Wiki-ROBO option includes a robotic arm adaptor to mount the Wiki-SCAN on the robot. It supplies the Wiki-ROBO with 12V power as well as 1 digital input for inspection sequence control and 1 digital output for inspection result.

****Please note that if this option is selected, the Wiki-SCAN will only be compatible with a robot.**



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