

PipeWIZARD® System

Reliable solution for onshore and offshore inspections in harsh environments.



Photo courtesy of Absolute NDE



- Compact, powerful, and versatile
- Short inspection cycle time
- Accurate detection and sizing
- User-friendly software
- Sector and linear electronic scans
- Advanced capabilities

PipeWIZARD Specifications*

TOMOSCAN FOCUS LT RACKMOUNT ACQUISITION UNIT	
Conventional UT connector	4 (BNC)
Data acquisition rate	4 MB/s
A/D converter	10 bits, 100 MHz
A-scan length	32 to 8192 points
Real-time data compression	1 to 255 ratio
Rectification	FW, HW+, HW-, and RF
Filtering	Programmable digital FIR
Video	Smoothing (digital)
Dynamic depth focusing (DDF)	Yes
Encoder	2-axis (quadrature, clock direction)
Network interface	100BASE-T
Bandwidth	0.5 MHz to 23 MHz depending on the configuration
Acquisition speed	8000 A-scans/s (8-bit 512-point A-scans)
Number of beams	Up to 256
Pulse repetition frequency (PRF)	1 Hz to 20 kHz
Real-time averaging	1, 2, 4, 8, 16
Number of gates	4 for detection; 1 for synchronization
Weight	11.5 kg (25 lb)
Size (W x H x D)	48.3 cm x 13.3 cm x 34.4 cm (19 in. x 5.2 in. x 13.5 in.)
External temperature sensor input	Yes
PIPEWIZARD SYSTEM	
Power requirements	100 VAC to 240 VAC, 50 Hz to 60 Hz
Instrumentation Box weight	70 kg (154 lb)
Instrumentation Box Size (W x H x D)	58 cm x 38 cm x 104 cm (23 in. x 15 in. x 41 in.)
Operating temperature (scanner)	-50 °C to 60 °C (-58 °F to 122 °F)

PipeWIZARD System consists of:

Acquisition Unit: TomoScan FOCUS LT 64:128 (3U rackmount)

Motor Controller and Drive Unit: PWZ-MCDU (3U rackmount)

Instrumentation Box: Robust, sealed instrumentation box for the acquisition unit and motor controller and drive unit.

Computer and Software: Ruggedized laptop with Microsoft Windows and PipeWIZARD data acquisition and analysis software installed. Comes with 2 software dongles (USB keys) and computer accessories (additional flat screen monitor, keyboard, and mouse)

Scanner: Compact phased array scanner includes motor, encoder, 2 phased array probes and wedges, 2 TOFD probes and wedges and 1 temperature sensor. Emergency-stop push button is located on scanner.

Optional transverse module including 4 transverse probes and wedges is available.

Umbilical: 25-m heavy-duty umbilical cable including 128 coaxial cables, cables for motors and encoders, and water line.

Couplant Feed Unit: Water-pump unit with remote on/off button and manual flow regulator.

Accessories

Complete spare parts kit and all necessary tools are included.

Complete documentation and certificates are included.

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For enquiries - contact
www.olympus-ims.com/contact-us

OLYMPUS SCIENTIFIC SOLUTIONS AMERICAS CORP.

48 Woerd Avenue, Waltham, MA 02453, USA, Tel.: (1) 781-419-9300
12569 Gulf Freeway, Houston, TX 77034, USA, Tel.: (1) 281-922-9300

OLYMPUS NDT CANADA INC.

505, boul. du Parc-Technologique, Québec (Québec) G1P 4S9, Tel.: (1) 418-872-1155
1109 78 Ave, Edmonton (Alberta) T6P 1L8

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