



TomoScan FOCUS LT™ Powerful, Flexible, and Compact UT Data Ac- quisition System

FEATURES

- Full-featured PC-based software for data acquisition and analysis (TomoView™)
- Multiple channels or phased array probe configuration
- Combined phased array and conventional UT configuration (TOFD + P/E)
- File size of up to 1 GB
- Fast 100Base-T data transfer (4 MB/s)
- Configuration of up to 64:128
- PRF up to 20 kHz
- Real-time data compression and signal averaging
- Interface to external motor controller and scanners

THE NEW STANDARD IN ULTRASOUND PHASED ARRAY ACQUISITION SYSTEM

- ✓ Aerospace manufacturing
- ✓ Automobile industry
- ✓ Component testing
- ✓ Welded components
- ✓ Integrated inspection systems
- ✓ Immersion tanks

The new TomoScan FOCUS LT is designed for your most demanding automated UT inspection needs. This new benchmark of ultrasound phased array instruments offers exceptional performance for both conventional UT and ultrasound phased array with multiple probe configuration.

The TomoScan FOCUS LT offers a lighter, more compact, and even more reliable solution to your most advanced inspection requirements.

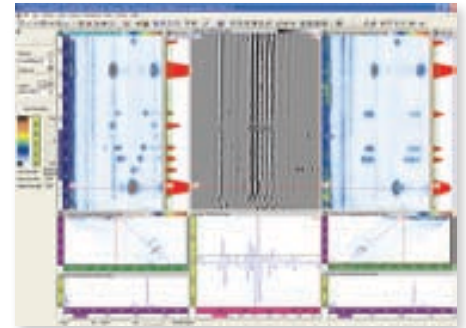
TomoScan FOCUS LT Specifications

Hardware	
Conventional UT connector	4 (LEMO® 00) (not available on 32:32 and 64:64 models)
Data acquisition rate	4 MB/s
A/D converter	10-bit 100 MHz per channel
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	Yes, available with TomoView 2.6
Encoder	2-axis (quadrature, clock-direction, counter)
Network interface	100Base-T
Bandwidth	0.5 MHz–20 MHz
Acquisition speed	8000 A-scans/s (8-bit 512-point A-scans)
Number of beams	Up to 256
PRF	Up to 20 kHz
Real-time averaging	1, 2, 4, 8, 16
Weight	5 kg
Size (W, H, D)	31.3 cm x 11.4 cm x 37.7 cm

Specifications — Sectorial Scan Configuration	
Pulser voltage	200 V
Configurations	32:32, 64:64
Specifications — Linear Scan Configuration	
Pulser voltage	130 V
Configurations	16:128, 32:128, 64:128

Extended pitch-and-catch option available for this configuration

MAIN FEATURES OF TOMOVIEW™ ACQUISITION AND ANALYSIS SOFTWARE



TomoView is designed for your most demanding acquisition and analysis needs. It features a robust and extendable platform.

- Real-time display of multiple A-scans, angle-corrected B-scans, C-scans, and D-scans
- Volume-corrected sector scans
- Complete TOFD analysis tools
- Built-in phased array focal law calculator
- User-definable acquisition and analysis layouts
- Volumetric merge
- User-definable overlays of weld and part geometry
- Predefined layouts and setups
- User-definable report
- Direct interface to the R/D Tech® MCDU-02 motor control drive unit
- Automated flaw sizing using –6 dB method
- Computer-aided calibration of phased array probes
- FFT
- Polar views

Options

- NDT Remote Control Library: customize your interface and control TomoView software.
- NDT Data Access Library: get easy access to raw data files for custom processing and display.

OLYMPUS®

TomoScan_FOCUS_LT_EN_0604 • Printed in Canada • Copyright © 2005 by Olympus NDT. All Rights Reserved.
All specifications are subject to change without notice.
Olympus and the Olympus logo are registered trademarks of Olympus Corporation.
R/D Tech and the R/D Tech logo are registered trademarks, and "Innovation in NDT," Tomoscan FOCUS LT, and TomoView are trademarks of Olympus NDT Corporation in Canada, the United States, and/or other countries.
Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective owners.

Olympus NDT
505, boul. du Parc-Technologique
Québec (Québec) G1P 4S9
Canada

rdtech@olympusndt.com
www.olympusNDT.com

