



## FEATURES

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- Thickness measurement, lamination detection, and crack detection
- Windows applications with user-friendly interface
- Real-time A-scan display and oscilloscope display
- Real-time B and C-scan thickness/ flaw mapping display
- A-scan recording for offline recreation of C-scans
- Easy data analysis and flaw sizing
- 3D display for better prospective views
- Automatic report generation with any kind of printer
- Support for all Windows-compatible languages
- Free one-year software upgrade

## DESCRIPTION

AquaScan is a complete immersion ultrasonic inspection and analysis system. The system includes:

- Water tank
- Inspection scanner with 2 or 3 motorized axes
- Power supply box for motors
- Industrial or portable computer containing pulser/receiver and high-speed digitizer cards

The system includes three applications: thickness mapping, X-axis flaw mapping, and Y-axis flaw mapping. The user interface includes A-scan, B-scan, C-scan, signal scope, real time mini-scope, 3-D display, and a control panel. Under the data analysis mode, the user can recreate the C-scan display by altering gate settings. Each A-scan retains its own unique gate settings. The user can generate a 3-D display of a C-scan instantaneously.

The system also generates a report with the following contents:

- Cover page including the project title and the report generation date
- Table of contents listing file descriptions and page numbers for each file
- Project information including project name, directory, start time, end time, project descriptions, and inspection log
- B-scan and C-scan maps with user-defined scales

The software is designed to simplify operating procedures; for example, the system automatically detects the attached scanner and sets up the appropriate parameters.

AquaScan supports any language supported by Windows; the program windows, message boxes, and hard-copy reports can be displayed in any language.

AquaScan comes with motorized X and Y axes. An optional motorized Z axis can be installed upon request.

### SPECIFICATIONS

**Computer (upgradeable)** 1GHz Pentium III or faster  
 128 MB RAM  
 30 GB Hard Disk  
 Built-in CD-RW Drive  
 Built-in network card  
 1024x768 Display or better  
 Connector for external monitor  
 Input: 100/220VAC 50/60 Hz

**Maximum C-scan Data Point** Thickness Map: 4,175,000  
Flaw Map: 835,000 up to 10 flaws per data point

**Sampling Rate** 100, 50, 25, 12.5, or 6.25 MHz

**Data Resolution** 8 bits

**Samples** 16K samples or 256K samples

**Scan Speed** up to 8 inches/second

**Rectifications** RF, Full, +half, or -half

**Scanner Resolution** X Axis: 0.002 inch (0.05 mm)  
 Y Axis: 0.002 inch (0.05 mm)

**Options** -Motorized Z axis  
 -Portable computer  
 -Transducers

