

ScanMaster

Ultrasonic Instruments for Inspection and Evaluation

UPI-100 SERIES



*Fully-featured ultrasonic instrument with up to
32 channels and programmable I/O ports*

PRODUCT DESCRIPTION

The upi-100 is a full-featured PC-based ultrasonic instrument employing 32-bit PCI architecture. With its 35MHz analog bandwidth, programmable square wave pulser, 95dB true gain, 50dB dynamic range DAC, and a range of 2000mm (80") in steel (at maximum sampling rate), the upi-100 is well-matched to the most challenging inspection applications.

The *upi-100* is expandable from 1 to 32 channels, with the capability to store a virtually unlimited number of set-up files for different transducers and inspection applications.

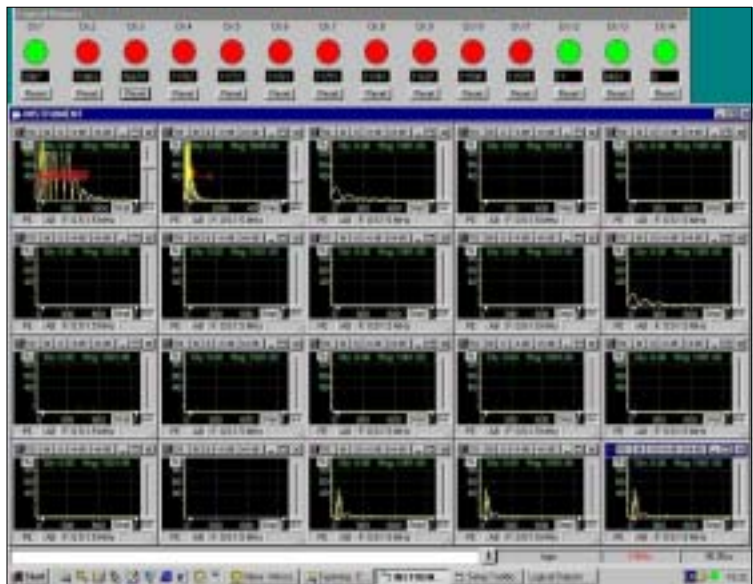
PRODUCT FEATURES

- 1 - 35MHz analog bandwidth
- 100Msamp/sec single-shot sampling rate.
- Up to four channels parallel firing capability for high-speed, high-PRF inspection
- Selection of *RPP3* or *RPP4* square-wave pulser preamplifier
- 95dB true instrument gain, 0.2dB gain increment, ± 1 dB gain linearity
- 50dB DAC with 160nsec step size, 40dB/ μ Sec slew rate, 500K steps
- Four hardware gates per channel. Up to 32 gats
- Dynamic backwall tracking with backwall attenuator
- Programmable time-tagging for accurate time-of-flight measurements
- Full A-scan data capture in double-word mode
- Parallel, VGA, PS2 keyboard and mouse ports
- Storage and export A-scan signals
- Programmable I/O ports
- 12GByte internal hard disk storage
- MCIO user interface.
- Multi-language capabilities.



PRODUCT APPLICATIONS

- Flaw detection in metals, composites and plastic materials,
- Wall and clad thickness measurements
- A and B-scan evaluation
- Typical applications include:
 - Forgings ▪Billets
 - Plates ▪Rolls ▪Pipes ▪Automotive
 - Train rail and wheel



Multi-channel instrument with I/O visual alarm display for each channel

* Specifications are subject to change without notice.

Corporate offices

ScanMaster Systems (IRT), Ltd.

5 B Ha'Nagar St. Neve Ne'Eman B
45800 Hod Ha'Sharon, Israel
Phone: 972-9-7475400
Fax: 972-9-7475444
e-mail: sales@scanmaster-irt.com
Web site: <http://www.scanmaster-irt.com>

IRT•ScanMaster Systems, Inc.

319 Garlington Road, Suite B4
Greenville, SC 29615, USA
Phone: (864) 288-9813
Fax: (864) 288-9799
e-mail: irtinc@irtscanmaster.com

