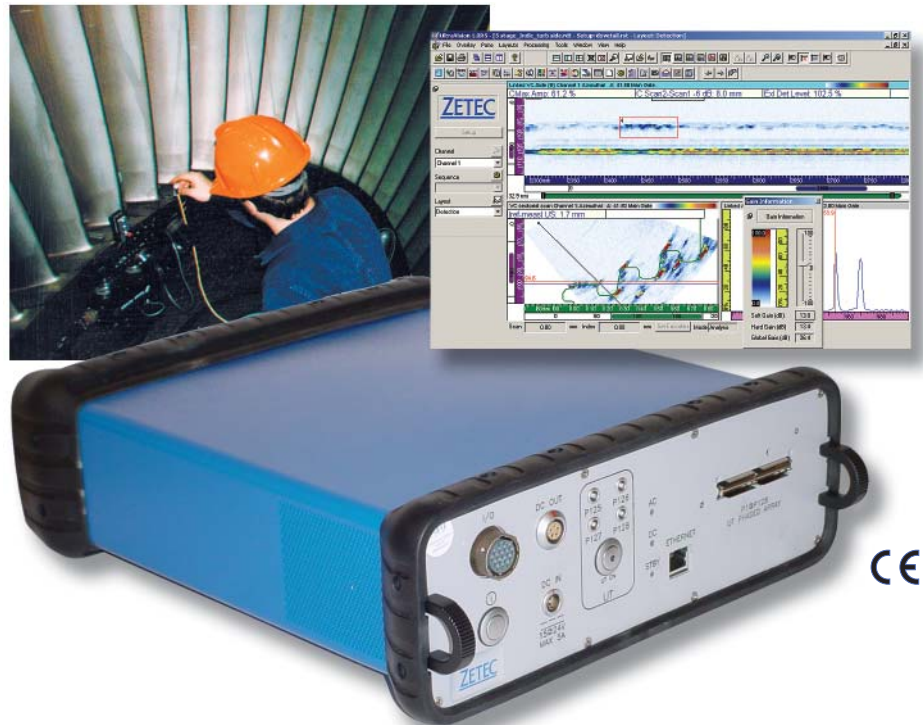


Z-SCAN PA PHASED ARRAY UT DATA ACQUISITION SYSTEM

Features

- Compact and lightweight
- Setup, data acquisition, and analysis using UltraVision®
- Up to 64 simultaneously active PA channels, 128 in total
- 4 conventional UT channels
- Linear amplifiers
- 8-bit or 12-bit 100 MHz A/D converter
- High pulsing rate (up to 20 kHz)
- Data throughput > 4 MB/sec
- 2 position encoder inputs



Zetec's Z-Scan PA is a powerful, flexible, and compact phased array UT data acquisition system. The Z-Scan PA features real-time data compression, signal averaging, and Dynamic Depth Focusing (DDF). This acquisition system interfaces with Zetec scanners and is driven by UltraVision UT software for excellent data acquisition and analysis capabilities.

While most systems now on the market use built-in computers, the Z-Scan PA interfaces to a standard, customer-supplied (or representative-supplied) PC. Advantages to this solution include easier upgrades and more widely available service.

The Z-Scan PA operates from any desktop or laptop PC with Pentium IV processor, at least 512 MB of memory and a 100BaseT link. For optimal performance, the PC should be configured for a specific application and take into account the data throughput and file sizes corresponding to that application.

With a Windows® OS and standard PC, the Z-Scan PA works with any PC-compatible peripherals, such as printers, disk drives, including magneto optical drives, and long distance optical link Ethernet adapters.

Toll Free 800-643-1771
Phone 425-974-2700
Fax 425-974-2701

www.zetec.com

Z-SCAN PA

PHASED ARRAY UT DATA ACQUISITION SYSTEM

Feature Comparison

Feature	OmniScan PA	Tomoscan III PA	Z-Scan PA
Size (H x W x D)	8.2" x 12.6" x 5.0" (20.9 x 32.1 x 12.5 cm)	12.6" x 15.4" x 16.5" (32.0 x 39.0 x 42.0 cm)	4.5" x 12.3" x 14.8" (11.4 x 31.3 x 37.7 cm)
Weight	10.1 lb (4.6 kg)	52.9 lb (24 kg)	11.0 lb (5 kg)
Air intake	No	Yes	Yes
Battery operation	Yes	No	External
Phased array connector	OmniScan	Hypertronics	OmniScan
Phased array channels	up to 32/128	up to 32/128	up to 64/128
UT channels	1 ¹	8	4
Digitizer (A/D)	8-bit, 100 MHz	8 or 12-bit, 100 MHz	8 or 12-bit, 100 MHz
Network interface	100BaseT	100BaseT	100BaseT
Global data throughput	> 2 MB/sec	5 MB/sec	> 4 MB/sec
Max pulser voltage (50 Ohm)	80 V	200 V	115 V or 200 V ²
Bandwidth (-6 dB)	from 0.5 to 20 MHz	from 0.5 to 20 MHz	from 0.5 to 20 MHz
Real-time data compression	Yes	Yes	Yes
Rectification	Digital	Digital	Digital
Filtering	Digital (FIR)	Digital	Digital (FIR)
Smoothing (video filter)	Digital	Digital	Digital
Dynamic Depth Focusing (DDF)	No	Yes	Yes
# Focal Laws	256	512	256
A-scan length	32 to 8192	20 to 16328	32 to 8192
Recording rate A-scans	6000 8-bit A-scan/s	4800 12-bit or 9600 8-bit A-scan/s	4000 12-bit or 8000 8-bit A-scan/s
Amplifier	LIN	LIN, LOG	LIN
Encoders interface	2 quadrature-type	6 quadrature-type ³	2 quadrature-type
Embedded software control	Yes	No	No
PC software control	Yes	Yes	Yes
Data acquisition	UltraVision®	TomoView/UltraVision®	UltraVision®
Data analysis	UltraVision®	TomoView/UltraVision®	UltraVision®
File format	*.OPD, *.OUD, *.RDT	*.RDT	*.RDT

General Specifications

Power Supply	
Voltage	120 VAC or 230 VAC
Frequency	50 HZ to 60 Hz
Maximum power	250 VA, Fuse 250 V slow blow: 2.5 A at 230 V, 5 A at 120 V
Environment	
Operating temperature	41°F to 113°F (5°C to 45°C)
Storage temperature	-4°F to 140°F (-20°C to 60°C)
Relative humidity	95%, non-condensing
European directives and standards	CE mark approves the conformity with all applicable directives and standards of the European community. The Z-Scan PA is an instrument of Class 1 and installation category II.

Notes:

¹ Only 16 / X systems.

² 200 volts available only on 32/32 and 64/64 channel models.

³ Each encoder interface may be configured as either quadrature-type, up/down counters or clock/direction type. A total of 6 encoders can be permanently connected to the system. Three of them can be active simultaneously (in this case, the information of the third encoder is stored in the data file and can be accessed using specific application-related software).

Ordering Information

System purchase includes: Online data acquisition software, Carrying case, Certification, and Operating guide

1350-00-0161 Z-Scan PA 16/128 P	Z-Scan PA system, up to 16 simultaneously active channels and 128 channels in total - Can use the same 16 channels as transmitters and receivers or 8 channels as transmitters and 8 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-0162 Z-Scan PA 16/128 PR	Z-Scan PA system, up to 16 simultaneously active channels and 128 channels in total - Can use the same 16 channels as transmitters and receivers or 16 channels as transmitters and 16 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-0321 Z-Scan PA 32/32 P	Z-Scan PA system, up to 32 simultaneously active channels and 32 channels in total - Can use the same 32 channels as transmitters and receivers or 16 channels as transmitters and 16 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-1281 Z-Scan PA 32/128 P	Z-Scan PA system, up to 32 simultaneously active channels and 128 channels in total - Can use the same 32 channels as transmitters and receivers or 16 channels as transmitters and 16 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-1282 Z-Scan PA 32/128 PR	Z-Scan PA system, up to 32 simultaneously active channels and 128 channels in total - Can use the same 32 channels as transmitters and receivers or 32 channels as transmitters and 32 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-1285 Z-Scan PA 64/64 P	Z-Scan PA system, up to 64 simultaneously active channels and 64 channels in total - Can use the same 64 channels as transmitters and receivers or 32 channels as transmitters and 32 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-1283 Z-Scan PA 64/128 P	Z-Scan PA system, up to 64 simultaneously active channels and 128 channels in total - Can use the same 64 channels as transmitters and receivers or 32 channels as transmitters and 32 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT
1350-00-1284 Z-Scan PA 64/128 PR	Z-Scan PA system, up to 64 simultaneously active channels and 128 channels in total - Can use the same 64 channels as transmitters and receivers or 64 channels as transmitters and 64 others as receivers - OmniScan PA connector + 4 Lemo00 UT connectors (4 pulser/receivers) for conventional UT



ZETEC

Toll Free 800-643-1771
Phone 425-974-2700
Fax 425-974-2701

www.zetec.com

© Zetec, Inc. 2006. P/N ZDS0178 Rev 02/06
Printed in the USA. All rights reserved. 2/06 QTY 500
All the information herein is subject to change without prior notification.