

Technical specifications for the P-Scan Stack System

PROCESSOR		
Channels	Number of Phased Array channels	Up to 256/512
	Number of standard UT channels	Up to 32
Transmitter	Pulse type	Rectangular, unipolar or bipolar
	Amplitude	80 - 200 Vpp (± 40 V - ± 100 V)
	Rise time	<7 ns
	Width	18.75 ns - 2 μ s
Receiver	Dynamic range	
	Phased array channels	>100 dB w. @ 5 MHz std. filter, 32 element aperture
	Standard UT channels	>112 dB w. @ 5 MHz std. filter
	Frequency range	
	Phased array channels	0.09 - 28 MHz
	Standard UT channels	0.06 - 30 MHz
Digitisation	Rectification	Digital, user selectable
	Filters	Digital, user selectable
	Input noise	2 nV/VHz, typical
	Sampling rate	120 MHz
Connectors	Resolution	22 bit
	Maximum number of samples	131.072
	Dynamic depth focusing	Yes
	Number of focal laws	8.192
	Real time data compression	User selectable
	Phased Array connectors	Up to 8
Phased Array connector type	I-Pex	
Phased Array probe recognition	Automatic	
Standard UT connectors	Up to 8, each connector serving 4 probes	
Standard UT connector type	Fischer (Lemo 00 using QCA adaptor)	
Scanner connector	Fischer	
Link connectors	2 x Fischer	
External module connector	Fischer	
Click-and-play connectors	2 x MILL-MAX	
Ethernet connector	RJ45 (IP54 protected)	
PC connection	Network interface	Ethernet 1000Base-T
	Data throughput	Up to 30 MB/sec
Other features	Integrated scanner controller	Yes
	Battery operation	Yes, including scanner
	Self check	Yes
Physical specifications	Environmental protection	IEC class IP54 (Protected against dust and splashing water)
	Temperature range	0 - 40° C (32 - 104 °F) standard 0 - 50° C (32 - 122 °F) extended
	Air intake	No

PROCESSOR PA 32

Channels	Number of Phased Array channels	32/64
	Phased Array connector	1 x I-Pex
	Number of standard UT channels	8
	Standard UT connectors	2 x Fischer (8 channels)
Physical specifications	Size (H x W x D)	171 x 223 x 255 mm (6.7 x 8.8 x 10.0 in)
	Weight	5.7 kg (12.6 lb)

PROCESSOR PA 64

Channels	Number of Phased Array channels	64/128
	Phased Array connectors	2 x I-Pex
	Number of standard UT channels	8
	Standard UT connectors	2 x Fischer (8 channels)
Physical specifications	Size (H x W x D)	171 x 223 x 255 mm (6.7 x 8.8 x 10.0 in)
	Weight	6.1 kg (13 lb)

PROCESSOR PE 8

Channels	Number of standard UT channels	8
	Standard UT connectors	2 x Fischer (8 channels)
Physical specifications	Size (H x W x D)	171 x 223 x 255 mm (6.7 x 8.8 x 10.0 in)
	Weight	5.3 kg (11.7 lb)

P-SCAN PHASED ARRAY PROBES

To see the probe specifications, please visit www.p-scan.com

BATTERY 4

Battery	Battery type Batteries Battery capacity Battery management	Li ion 4 Up to 8 hours, including scanner Hot swapping
Connectors	Click-and-play connectors	2 x MILL-MAX
Physical specifications	Size (H x W x D) Weight (without batteries) Weight (with batteries) Environmental protection Temperature range	104 x 223 x 255 mm (4.1 x 8.8 x 10.0 in) 3.3 kg (7.3 lb) 5.1 kg (11.2 lb) IEC class IP54 (Protected against dust and splashing water) 0 - 40° C (32 - 104 °F) standard 0 - 50° C (32 - 122 °F) extended

POWER 2

Input/Output	Input Output	100 - 240 V AC, 50 - 60 Hz 24 V DC, 9.1 A
Connectors	Input connector Click-and-play connectors	IEC C14 2 x MILL-MAX
Physical specifications	Size (H x W x D) Weight Environmental protection Temperature range	79 x 223 x 255 mm (3.1 x 8.8 x 10.0 in) 2.9 kg (6.4 lb) IEC class IP54 (Protected against dust and splashing water) 0 - 40° C (32 - 104 °F) standard 0 - 50° C (32 - 122 °F) extended

PUMP 4

Pressure	Maximum pressure	4 bar
Flow	Flow rate	Adjustable
Hose fittings	Input/output	8 mm OD hose
Connectors	Link connector Click-and-play connectors	Fischer 2 x MILL-MAX
Physical specifications	Size (H x W x D) Weight Environmental protection Temperature range	79 x 223 x 255 mm (3.1 x 8.8 x 10.0 in) 3.2 kg (7.1 lb) IEC class IP54 (Protected against dust and splashing water) 0 - 50° C (32 - 122 °F)

SOFTWARE

Software platform	Operating system Input mode	Windows 7 / Windows 8 (64-bit) Touchscreen, keyboard, mouse
File storage	Maximum data file size	Limited to hard drive size
Hardware requirements	Processor RAM Hard drive type Hard drive size Network interface Screen size Screen format Screen resolution Screen type	Intel i7 Quadcore Min. 8 GB SSD Min. 128 GB Ethernet 1000Base-T Min. 13" 16:9 Min. 1680x1050 Touchscreen (optional)

SCANNER AUS-5

Interface	Scanner control	Direct interface to P-scan Stack System without additional hardware
Speed	X-direction Y-direction	0-50 mm/s 0-150 mm/s
Y-stroke	Standard Y-module rail	0-280 mm
Pipe diameter	Circumferential scanning	From OD 75 mm
Safety	Emergency switch	Top mounted push-button
Physical specifications	Size (H x W x D) Weight Environmental protection Temperature range	101 x 347 x 235 mm (4.0 x 13.7 x 9.3 in) 5.5 kg (7.1 lb) IEC class IP54 (Protected against dust and water jets) 0 - 50° C (32 - 122 °F)
Options		Curved Y-modules with radius from R150 mm Sleeves for non ferritic pipes Chain guide with stainless steel chain