

## P-scan 4 Lite

– Compact, Battery Powered Ultrasonic Inspection System



*P-scan 4 Lite: PSP-4L with Industrial Notebook PC and AUS-3 scanner*

### Features

- Full battery operation
- Designed for use by a single operator
- All-in-one unit, optimized for size and weight and integrated with industrial grade notebook PC (brackets for different notebook PCs available)
- Integrated scanner control. Interfaces with all FORCE Technology digital scanners without additional hardware
- Built-in batteries for up to 8 hours operation (batteries can be hot-swapped)
- Matching scanner, optimized for battery use and size (see separate data sheet for AUS-3)
- Matching, battery operated water pump
- P-scan System 4 compatible (P-scan, T-scan, Through Transmission, TOFD and A-scan recording. Concurrent operation supported).

## Technical specifications for PSP-4L

<b>Channels</b>	Number of channels	4 full channels (for single or twin crystal probes).
<b>Transmitter</b>	Pulse type Amplitude Rise time Width	Rectangular 50V - 250V 7 ns 20 ns - 500 ns (individually programmable per probe and inspection).
<b>Receiver</b>	Dynamic range Linearity Frequency range Frequency filters  Input noise	120 dB @ 1MHz; > 100 dB @ 10 MHz ± 1 dB in any 60 dB range. 0.3 - 20 MHz Selectable filters, individually programmable per probe and inspection. 2.6 nV/√Hz
<b>Digitization</b>	Sampling rate Resolution	100 MHz 10 bit, corresponding to 0.25 dB
<b>Physical specifications</b>	Length, depth, height Weight Temperature range Environmental protection	323 x 299 x 59 mm (12.7 x 11.8 x 2.3 inch). 4.5 kg (9.9 lb). 0 - 50 °C (32 - 122 °F) (operating). IEC class IP52 (protected against dust and dripping water).
<b>Power supply</b>	Battery power  External power  Battery charger	Internal batteries (industry standard smart batteries) for up to 8 hours typical operation (PSP-4L with AUS-3 scanner). Batteries can be hot-swapped. Battery management in PC software. Power unit with 18V output for operation and in circuit battery charge. Input range: 110 - 240 V. External 2-bay charger/conditioner included.
<b>Cable: PC/PSP-4L</b>	Standard cable Special cables	Short Ethernet cable from PSP-4L to notebook PC. Twisted pair or optical fibre (length > 1 km (0.6 mile)).
<b>Cables: PSP-4L/AUS-3</b>	Signals Standard length	Ultrasonic signals, power, control signals. 10 m (32 ft). Longer cables on request.
<b>Conformity with standards</b>	EN 12668-1  CE marking	Ultrasonic examination - Characterization and verification of equipment - Part 1: Ultrasonic Instruments. The <b>CE</b> marking assures the conformity with all applicable directives and standards of the European Community, ie. Electrical safety (EN 61010), Machine safety and EMC (EN 61000-6-2, EN 61000-6-3).
<b>Quality standard</b>	ISO 9001:2000	Manufacturing in accordance to ISO 9001:2000.
<b>System features</b>	Compatibility Imaging modes  A-scan modes Concurrent recording  Documentation	100% compatible with P-scan System 4 software. P-scan, T-scan, and Through Transmission mode. Possibility of full 3D registration of P-scan and T-scan images for off-line section view. A-scans for TOFD and for off-line reconstruction of images. Data from multiple inspections can be recorded concurrently. Imaging and A-scan data for the same inspection can be recorded at the same time. Facilities for reporting and printout.

### Further information

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