





The new advanced DEFECTOBOOK® DIO 1000 PA digital ultrasonic flaw detector is now augmented with phased array imaging capabilities. It is combining all features of conventional ultrasonic with power of phased array. Using the latest generation of electronic components and microprocessors we have brought the thinnest, lightest and really portable phased array instrument, which makes your inspection easy and fast. The standard configuration is 16 parallel (in preparation 32 parallel), and with extendable module 16:64 and 16:128. The DEFECTOBOOK® DIO 1000 PA complies with all common standards as EN12668-1, ASME Code case 2541, ASTM E2491, ASTM E2700. The instrument also combines the powerful advantages of digital design with the detailed dynamic echo information, using sampling rate 200 MHz, 12-bit.

Weight:

Warranty:

General Specifications

Main applications:

- Weld inspection
- Aerospace testing
- Pipe inspection
- Composite testing
- Crack detection and sizing

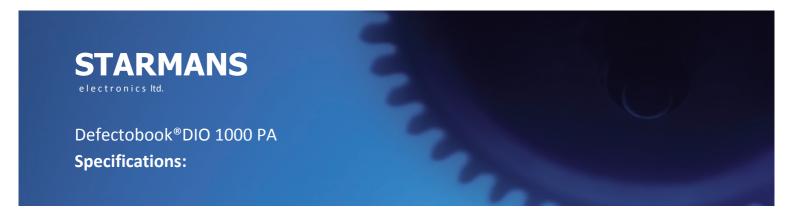
Environmental tests:

- Tests for Damp heat / Humidity as per norms EN 600-2-78;02; EN 60068-1
- Vibration tests as per norm EN 60068-2-6 ed 2:08
- Shock tests as per norm EN 60068-2-29:1996+Z1:10

Display	Color TFT sunlight, 1024 (W) X 768 (H)	
Display update rate:	60 Hz	
Display dimensions:	99 x 130 mm	
Focal law quantity	512 (1024)	
Synchronization:	Outside synchronization, echo start	
Operating temperature:	-10°C to +50°C	
Storage temperature:	-40°C to +70°C	
Battery operating time:	up to 10 hours	
Memory:	2 – 16 GB	
Dimensions:	224 x 188 x 34 mm	

0,74 kg without battery + 0,54 kg battery

Two years standardly, conditioned 3 years



Alarms Cursors Cursors X, Y Measurements Views A-scan (40 000 A-scans memory), B-scan A-scan, B-scan, S-scan, optional C-scan Linear, Sectorial Auto gate Thickness DAC 20 points, plus 4 sub curves TCG Spot weld Suitable for 2D probe		Conventional	Phased Array		
Pulser type Tunnable square wave, negative spike excitation, burst Pulser energy 75 – 275 V (Low 100, High 400) ± 100 V (-200 V) Pulse repetition frequency 16:32 (64, 128 PA Module) Pulse width 15 - 100 ns 16:32 (64, 128 PA Module) Pulse width 50, 57, 200 and 1 000 Ohms 15 – 125 ns Pulse width 50, 57, 200 and 1 000 Ohms 15 – 125 ns Receiver From 100 Ohms 15 – 125 ns Receiver From 100 Ohms 0 – 42 dB Analog, 20 dB Digital Receiver bandwidth 90, 50, 30 MHz (-3 dB) 0 – 42 dB Analog, 20 dB Digital Receiver bandwidth 90, 50, 30 MHz (-3 dB) 1 KHZ – 10 MHz 2 KHZ – 10 MHz 1 KHZ – 10 MHz 1 KHZ – 10 MHz 2 KHZ – 10 MHZ	D. I.				
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