

Ultrasonic testing systems | 100 MHz | PhasisBLU

PhasisBLU, for fast, simple use in production – reliable testing without profound ultrasonic knowledge.

PHasisBLU picture

Test automation allows significant savings while ensuring the best possible reproducibility of measurement results. Here, man and robot work hand in hand. Inspection systems from the combination of PHasisBLU and robotic technology contribute to future-oriented quality assurance as well as detailed documentation of inspection results.

Advantages

- **Key Visualization:** C/D scans illuminate the weld, providing clarity and precise detail.
- **High Resolution:** More than 700 measuring points ensure superior resolution for pinpoint welding lens diameter accuracy.
- **Easy assessment:** Automatic image-based suggestions for reliable inspection without the need for ultrasound expertise.
- **Inspection speed:** Accelerated inspection thanks to simultaneous scanning of large areas.
- **Versatile Probes:** Universal probes eliminate the need to change equipment for different sample types.

Benefits

- Imaged display: direct visualization of weld beads via C/D scans for simplified quality assessment.
- High resolution: more than 700 measuring points for precise determination of the welding lens diameter.
- Automatic assessment: assessment suggestions based on predefined parameters, facilitating inspections without ultrasonic expertise.
- Fast inspection: Reduced inspection times thanks to simultaneous scanning of a large area.
- Probe universality: No need to change probes for different samples, simplifying the inspection process.

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PhasisBLU

Dimensions	200 x 200 x 82 mm
Weight	2.500 kg

PhasisBLU

PC Board	Intel Pentium QuadCore @ 2,0 GHz, 8 GB RAM, 512 GB SSD
Protection class	IP 64, restricted
Phased Array test channels	128, 16 thereof parallel
Digitization rate	100 MHz
Communication	1 X LAN, 1 GBit/s
Max. IFF	20 KHz
Max. pulse amplitude	+/- 100 V (neg. square pulse)
Band width (-3dB)	0.5 - 25 MHz
Pulse width	? 5 ns
Focal Laws	> 700 (virtual probes)
Power supply	100 - 240 VAC 50 Hz - 60 Hz
Operation temperature	0°C - 40°C
Relative Humidity	80%, non-condensing
Cooling passive	(no fan)
Housing	CNC made aluminum housing, IP 64, passive cooling

Standard Probe

Type	Phased Array 2D Matrix	
Number of elements	11 x 11 arranged in square	
Cable	Long-Life 2.5 m; 5 m for robot applications	
Nominal frequency	12 MHz	20 MHz
Inspection area	9 x 9 mm	11.7 x 11.7 mm
Physical resolution more precise than	0.35 mm	0.45 mm

Software

Administration and communication:

- Access rights and user management
- Test equipment monitoring and management of inspection devices
- Management of plate pairing and materials
- Various interfaces such as test plan import, result export or communication interface for automated testing

Inspection:

- "Inspection according to test plan" mode: secures testing with 100% fulfillment and enables safe testing with minimal training
- Improved setup of inspection plans and easy to go inspection according to proven standards of conventional ultrasonic inspection
- "Free testing" mode: fast testing without a test plan with instantly selectable standard or individual parameter sets
- Management of plate pairing and materials
- Inspection mode for highly sound-attenuating materials or very rough surfaces
- Multiple modes for detection of cladding
- Access to all setting parameters at any time for the implementation of individual evaluations

Data management:

- Creation and administration of test plans and free testing
- Transfer of the results of the free testing into new test plans
- Management of plate pairings, evaluation and ultrasonic parameters

- Inspection plans on all devices by means of synchronization
- Individual color display of spot welds (D-Scan)
- Test reports can be exported as Word, Excel or PDF documents.
Two different types of reports available: detailed and compressed
- Predefined, universal ready to go setups as well as the creation of individual advanced setups

Applications