

参数规格*

PHASELINK 64-128PR

Weight	4.5KG (including rubber bag) 4KG (excluding rubber bag)
Dimension	232mmx185mmx107mm(without rubber) 252mm x 204mm x 128mm (including rubber coating)
Cooling fan	2
Number of groups	Upgradable to 4 PA probes or 128 UTs, 128 groups
Channel configuration	64:128PR
Digit	16 bits
A Scanning amplitude	Up to 1600%
Maximum A scan count	16384
Focusing law quantity	8192
Maximum PRF	30 kHz
Maximum transmission rate	2GB/s
Digitization frequency	200MHz
Voltage	±100V
Pulse width	20ns to 1250ns
Band width	0.4 MHz to 25 MHz
Acquisition rate	90,000 A scans per second
Gain	0-80 dB
Average	Up to 64
Focusing mode	Depth, sound path, projection
Built-in engineering machine	Yes
Gigabit network port	2
HDMI HD video port	2
Standby power interface	Yes

PHASELINK 32-64PR/32-128PR

Weight	4KG
Dimension	232mmx 185mm x107mm(without rubber) 252mm x 204mm x128mm (including rubber coating)
Cooling fan	2
Number of groups	Upgradable to 4 PA probes or 128 UTs, 128 groups
Channel configuration	32:64PR/32:128PR
Digit	16 bits
A Scanning amplitude	up to 1600%
Maximum A scan count	16384
Focusing law quantity	8192
Maximum PRF	30 kHz
Maximum transmission rate	2GB/s
Digitization frequency	200MHz
Voltage	±100V
Pulse width	20ns to 1250ns
Band width	0.4 MHz to 18 MHz
Acquisition rate	60000 A-scans/second
Gain	0-80 dB
Average	Up to 64
Focusing mode	Depth, sound path, projection
Built-in engineering machine	Yes
Gigabit network port	2
HDMI HD video port	2
Standby power interface	Yes

*Support system customization and adjustment of various indicators

Standard Kit
PHASELINK® phased array instrument, power cord and printed Getting Started Instructions. The package also includes the latest version of PHASELINK software, a hard carrying case, a calibration certificate and a USB stick containing the user manual

Optional features:
FMC/TFM full focusing function



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PHASELINK
Integrated advanced phased array
ultrasonic system

PHASELINK Series



PHASELINK

Integrated Advanced Phased Array Ultrasound System

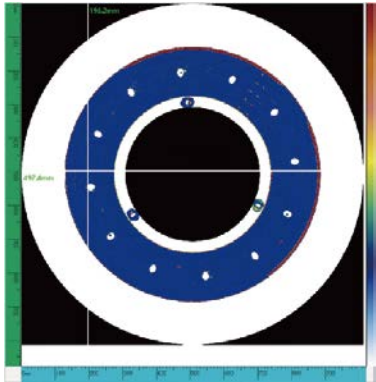
The PHASELINK product series has powerful ultrasonic phased array technology performance and operation processing speed, which can ensure real-time rapid detection. It is equipped with professional system data acquisition and analysis software, providing flexible and scalable solutions for general and customized ultrasonic phased array inspection systems

PHASELINK system supports multiple host integration

PHASELINK host systems are connected via network cables and can be infinitely expanded to meet the integration requirements of complex large-scale automated inspection systems, from 32:128 configuration to infinity. The integrated use of PHASELINK multi-host systems can greatly increase the inspection speed. Can be equipped with: unlimited number of probes and unlimited number of group settings.



- ✓ Up to 2 GB/S data transfer rate
- ✓ Support 6-axis position information input
- ✓ IP65 waterproof and dustproof, rugged and durable, with optimized heat dissipation
- ✓ Integrated design, each device is an industrial computer Ultra-high signal-to-noise ratio



Brake disc high precision C scan

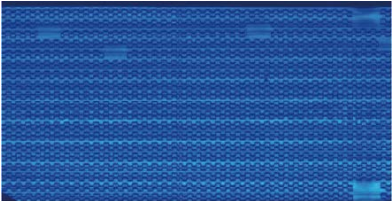
Advanced Phased Array Mode

- ✓ Support 3D CAD import configuration3D
- ✓ 3D real-time imaging: defect location and size are intuitively displayed in the 3D workpiece
- ✓ One-transmit-one-receive function: can effectively detect welds of high-attenuation materials such as stainless steel.
- ✓ Supports multiple groups of simultaneous detection: more suitable for complex detection scenarios.
- ✓ Compatible probes: one-dimensional linear array, dual-crystal linear array DLA, dual-crystal matrix DMA, daisy array, ring array, flexible probe, and customized non-standard probes.

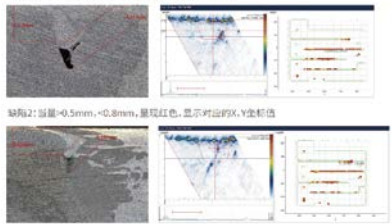


PHASELINK

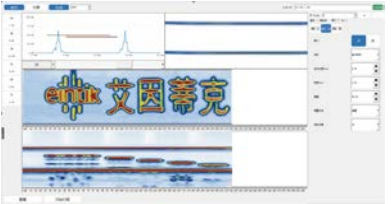
Data Collection and Analysis Plan



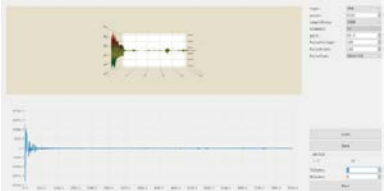
Brazed water cooling plate inspection results



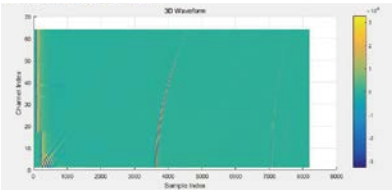
Friction stir welding detection effect



Ultrasonic phased array software example program written in C++



FMC Data Acquisition Example Program



Matlab FMC data analysis example program

maging software modules for different applications

According to different detection application requirements, we can provide basic imaging software modules for various applications. This module can meet most detection application requirements. If users need to develop customized detection application software, we can provide software development interfaces to assist users in completing software development.

- ✓ Interface for fully automated inspection solutions
- ✓ Real-time data retrieval (data server)
- ✓ Language/OS/Computer Independent
- ✓ Full control in real time: gain, TCG, gate, alarms, encoders, etc.

Intelligent diagnosis and efficient data management

For the identified defects, the software uses ultrasonic propagation theory and signal processing technology to perform precise quantitative analysis. The software supports large-capacity data storage, classified storage of original test data, analysis results and test parameters, clear index and directory structure, easy query, retrieval and backup, and guaranteed data security and traceability. The powerful report generation function can instantly generate detailed reports covering the test object information, methods, results, defect conditions and evaluation conclusions according to your needs. You can choose templates at will, customize company logos, personnel signatures and other information, and the reports are presented in PDF or Word format for easy printing, sharing and archiving, giving the test work a high degree of standardization and professionalism.

PHASELINK SDK

PHASELINK SDK is a software specially tailored for the PHASELINK series ultrasonic phased array detection system platform.Secondary development toolkit for ultrasonic phased array automatic detection system. Fully open interface for secondary development. Open FMc.Full matrix data acquisition interface, capable of realizing FMc data acquisition and exporting FMc full matrix acquisition data for various.The data format of ultrasonic phased array and ful focusing detection mode is open, which can guide the collected data into Export to Excel spreadsheet, support Matlab and other professional data analysis software for algorithm research and analysis.PHASEINK SDK is designed to provide a complete and easyto:use software package for ultrasonic phased aray techolgy research and detection system software development.The development interfaces and tools used by Controls every link of the ultrasonic phased array detection system and builds a bridge from hardware to application.

Application scenario



Aerospace and defense industries

Aircraft nondestructive testing

- Aircraft surface skin damage and corrosion detection
- Aircraft landing gear
- Aircraft fuselage composites
- Aircraft fastener hole
- Aircraft bolt detection
- Aircraft engine fan blade internal defect detection
- Aircraft fuselage rivet detection (prevent falling off)

Detection:

- Composite workpiece
- Honeycomb structure reinforced composite workpiece
- Friction Stir Weld (FSW)



transportation

Detection:

- Train wheel
- Train wheel shaft
- High-speed rail track
- Train wheelset



Manufacturing and processing of metals

Detection:

- Heavy forging
- Tube material
- Slab
- Bar



Oil and gas

Detection:

- Welds (including austenitic alloys)
- Corrosion imaging
- AUT welding of oil and gas long distance pipeline
- Seam and corrosion detection
- TKY weld inspection
- PE tube electric and thermal fusion welding test