Specifications

PHASELINK 64-128PR

Weight	4KG
Dimension	232mm x 190mm x 107mm
Cooling fan	2
Number of encoders supported	2-axis
Channel configuration	64:128PR
Digit	16 bits
A Scanning amplitude	Up to 800%
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**

Weight	4KG
Dimension	232mm x 190mm x 107mm
Cooling fan	2
Number of encoders supported	2-axis
Channel configuration	32:128PR
Digit	14 bits
A Scanning amplitude	Up to 800%
Maximum A scan count	16384
Focusing law quantity	8192
Maximum PRF	20 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	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



* Support system customization and adjustment of indicators

** We also offer PHASELINK ultrasound systems in model 32: 128PR. In addition to the number of channels, other parameters are the same as the 32:64PR model, and can be upgraded to the 64:128PR model in the future.

Standard kit

PHASELINK® Phased array instruments, power cords, and printed versions of the Easy to Get Started Manual. The package includes the latest version of PHASELINK software, a hard carrying case, a calibration certificate, and a USB stick with a user manual.

Optional features: FMC/TFM full focus function

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PHASELINK

Integrated advanced phased array ultrasonic system

PHASELINK Series

PHASELINK Integrated advanced phased array ultrasonic system



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

The PHASELINK system supports the integration of multiple hosts

The PHASELINK host systems are connected by network cables and can be extended indefinitely to meet complex and large automated inspection system integration requirements, from 64:128 configurations to infinite sizes. The integrated use of PHASELINK multi-host system can greatly improve the inspection speed. Available 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
- The IP65 is water and dust resistant, rugged and optimized for heat dissipation.
- Integrated design, each device is an industrial computer ultra-high signal-to-noise ratio

Advanced phased array mode

- Supports 3D CAD import configuration
- 3D real-time imaging: the location and size of defects are visually displayed within the 3D workpiece.
- One-shot function: It can effectively detect the weld of high attenuation materials such as stainless steel.
- Multi-group simultaneous detection: More suitable for complex detection scenarios.
- Available with probes: one-dimensional linear array, twin linear array DLA. twin matrix DMA, chrysanthemum array, ring array, flexible probe, and custom non-standard probe.

PHASELINK Data acquisition and analysis scheme

Simultaneous acquisition and display of a variety of different modes of full focus data, one acquisition can restore the true appearance of all types of defects

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 composite workpiece

Honeycomb structure reinforced Friction Stir Weld (FSW)



Train wheel shaft transportation High-speed rail track

Detection:

Train wheel

Train wheelset



Manufacturing and processing of metals







C-scan detection of honeycomb structural composites

Real-time Full Matrix Acquisition (FMC) and Total Aggregation Method (TFM)

At present, FMC and TFM are effective methods to improve the resolution and measurement accuracy of ultrasonic phased array image, which can solve the problem of image diffusion display caused by traditional ultrasonic beam diffusion, and the focusing range of TFM technology is not limited. PHASELINK's computational power ensures faster image processing, more accurate images, and a larger inspection area for evaluation.

2128-chip full-focus imaging significantly improves resolution and increases beam coverage

Has a variety of full focus modes

Phased array and full focus are simultaneously acquired and displayed together

Imaging software modules for different applications

According to the requirements of different detection applications, we can provide basic imaging software modules for a variety of applications To meet most requirements of testing applications, if users need to develop

customized testing application software, we can provide software development interface to assist users to complete software development.

Interface for fully automatic inspection solutions

Real-time data retrieval (Data server)

Language/operating system/computer independent

Full real-time control: gain, TCG, gate, alarm, encoder, etc



TKY weld inspection

PE tube electric and thermal fusion welding test