



Insight into the future

EINTIK PRODUCT BROCHURE



Eintik technology (Shanghai) Co., Ltd.

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About Eintik

Eintik Technology(Shanghai) Co., Ltd. is a high-tech company specializing in designing and manufacturing ultrasound probes. We provide leading-edge ultrasound probes, PAUT (phased-array ultrasound) probes, TOFD probes, medical imaging probes, and customized probes.

Eintik Technology encourages innovation and intellectual property protection. We aim to be competitive by possessing proprietary technologies, including core technology in gradient acoustic matching layer, 1-3 piezoelectric monocrystal composite, two-dimensional array probe encapsulation technology, etc. We strictly follow ISO9001:2015 Quality Management System.

We take pride in providing ward-winning products and customer service. Every day, thousands of inspectors around the world are benefiting from Eintik. Together we hope to build the best probes around the globe.

- China Nondestructive Testing Standardization Technical Committee member
- China Nondestructive Testing Standardization Technical Committee ultrasonic technical expert
- China Nondestructive Testing Branch National Steel Standardization Committee member
- China Ultrasound Professional Committee and Nondestructive Testing Society member
- China Professional Committee of Radiology and Society of Nondestructive Testing member
- China National Testing Machine Standardization Technical Committee member
- China Performance Testing and Testing Committee of China Composite Materials Society member

Learn more about us, please visit: www.eintik.com

Company Branch

Shanghai

Sensors, instruments, software R&D, production, sales, service General intelligent detection platform software.

Guangzhou

Instrument R&D Center General intelligent detection platform software R&D, sales and service System integration.

Changsha

Transmitter R&D and production center R&D, production, sales and service.

San Jose

Overseas R&D and sales center R&D, sales and channels.

Cooperation



Changhai Hospital



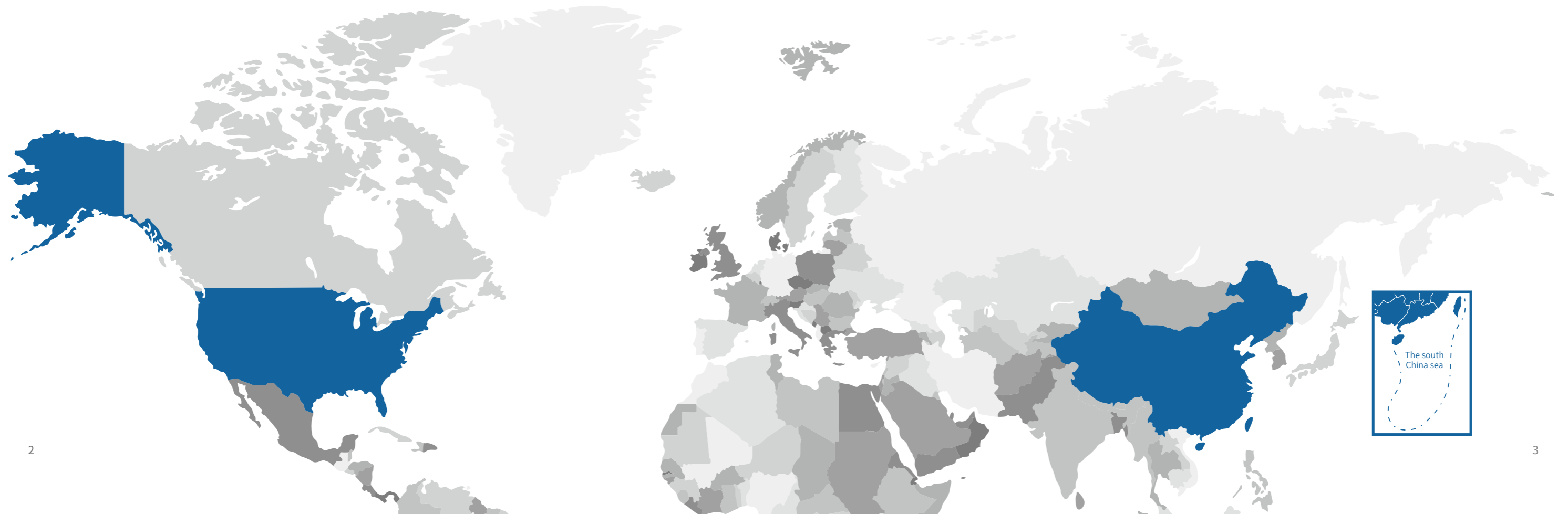
Nanchang Hangkong University



Wuhan Union Hospital



Hangzhou Dianzi University



Milestone

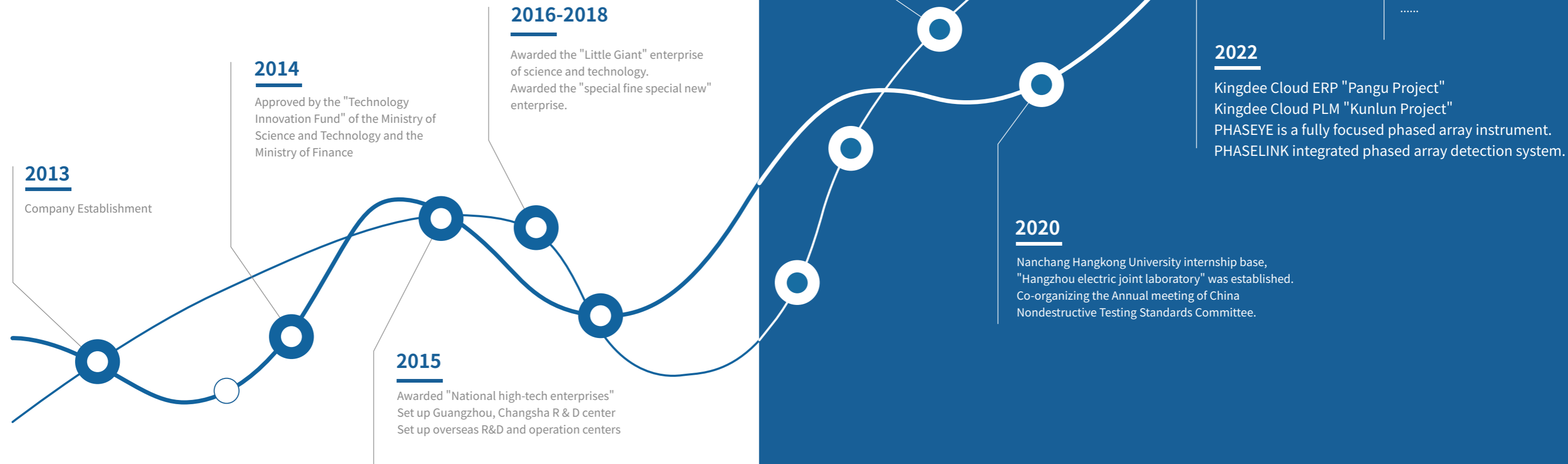


Two patents in Germany and the United States:

«A Detection Method to Improve the resolution of array Probe»

Participate in the development of China national standards:

- «Nondestructive testing - ultrasonic testing»
- «Nondestructive testing ultrasonic thickness measurement»
- «Nondestructive testing Ultrasonic testing Performance characteristics and test methods of ultrasonic thickness gauges»
- «Nondestructive testing Methods for technical testing and evaluation of ultrasonic diffraction sound»
- «Nondestructive testing -- Characterization and quantification of discontinuities in ultrasonic testing»
- «Nondestructive testing Ultrasonic testing The testing of discontinuities perpendicular to the surface»
- «Application of automatic phased array ultrasonic technology in ultrasonic testing of weld seams»
- «Nondestructive testing of welds phased array ultrasonic testing acceptance grade»
- «Non-destructive testing of welds - Acceptance grades for radiographic testing - Part 2: Aluminium and aluminium alloys»
- «Non-destructive testing of welds - Radiographic testing - Part 2: X - and gamma-ray techniques using digital detectors»
- «Non-destructive testing - Image quality testing by radiography - Part 1: Filament image quality meter - Determination of image quality values»
- «Non-destructive testing - Image quality testing by radiography - Part 2: Step hole image quality meter - Determination of image quality value»
- «Non-destructive testing - Image quality testing by radiography - Part 3: Image quality classification»
- «Non-destructive testing - Image quality by radiography - Part 4: Experimental evaluation of image quality values and image quality tables»
- «Non-destructive testing - Image quality testing by radiography - Part 5: Determination of image unsharpness by twin-wire image quality meters»



Core Team

For a safer and healthier world, we keep working on innovation.

Richard Zhang

President

Nanchang Hangkong University -- Visiting professor
Adjunct Professor, Hangzhou Dianzi University
Member of National Nondestructive Testing Standard Committee
Member, National Steel Standardization Committee
Member of China Nondestructive Testing Society
Member, Nondestructive Branch, Chinese Institute of Metals
Expert member of Expert Database of Shanghai Science and Technology Commission

Gaofeng Wang

Director of Joint Laboratory

Stanford Computer Science -- PhD
University of Wisconsin -- PhD
National Outstanding Youth
The country has tens of millions of talents
Professor, PhD supervisor, Hangzhou University of Electronic Science and Technology

Gener Zhuang

Head of instrument R&D

Majoring in electronics for nearly 20 years
Good at FPGA programming and software algorithm
Overall responsible for instrument hardware and software development

Jerry Long

Director of sensor Products

Over 15 years work in the sensor industry
Expert in ultrasonic probe and medical probe
Responsible for sensor R&D and production

Patent certificates and participation in national standards

149

Core Intellectual Property



27

Patent for invention



40

Utility model



26

Copyright of software



56

Patent of appearance



15

National standard



Core Advantage



Master with both piezoelectric composite materials and manufacturing process of sensors. TFM full focus and phased array testing instrument was successfully developed.

One of the enterprises that master this two types core technology in the world.



Master the production process of basic materials and sensors

To meet the requirements of composites above 15MHz: the piezoelectric column works in K33 mode, effectively improving the electromechanical coupling efficiency $K_t(K_t \text{ greater than } 60\%)$, ceramic column width less than 35 microns (half of the hair).



Design and manufacture ability of array and sound matching layer of high-precision array ultrasonic sensor

The sensitivity of the sensor is increased by more than 6dB and the relative bandwidth is increased by more than 15%. The 0-3 type polymer composite gradient matching layer is the first in China and independently developed to make the acoustic impedance of the matching layer smoothly transition from the piezoelectric composite to the lens (from 20MRayl to 2.5MRayl).



Independent R&D capability of core algorithms、 software and hardware platforms

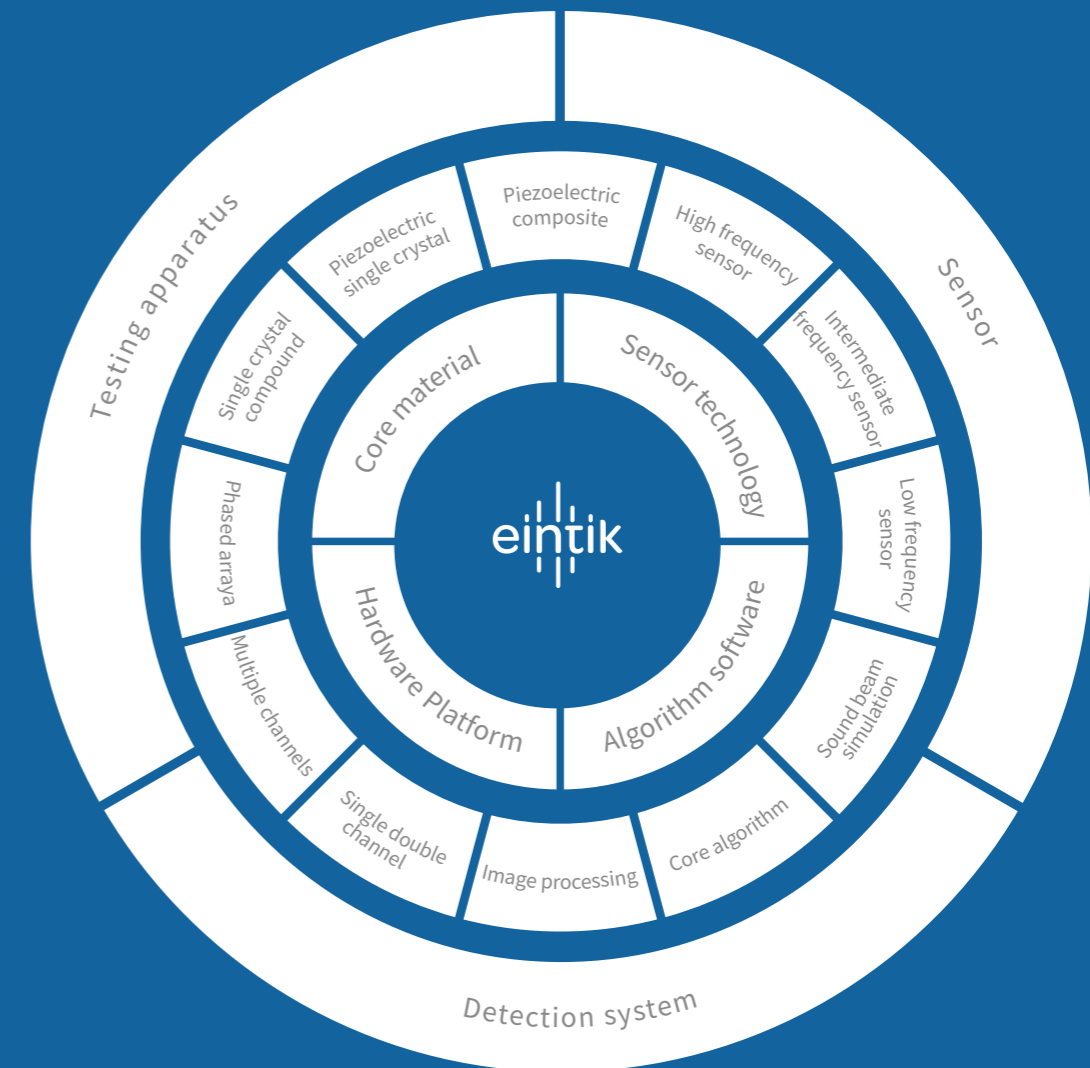
The phased array hardware platform, high-frequency transceiver circuit, full focusing algorithm and ultrasonic image imaging algorithm were independently developed, and the interpolation filter algorithm based on FPGA was used to achieve nanosecond delay accuracy. The technology has reached or exceeded the level of international competitors.



Development capability of high frequency piezoelectric composite wafers

Array probe composite material breakthrough more than 25MHz; Single chip probe with composite material breakthrough more than 60MHz.

Industrial Structure



Testing apparatus

- Ultrasonic testing instrument for solder joints
- Medical handheld ultrasound
- Ophthalmic array ultrasound camera
- Ultrasonic testing instrument for general purpose

Detection system

- Plate inspection system
- Pipe rod inspection system
- Composite material inspection system
- Welding spot online detection system

Sensor

- Consumer ultrasonic sensor
- Medical ultrasonic sensor
- Military ultrasonic sensor
- Industrial ultrasonic sensor

Company Honors



ISO45001 Safety system certification



ISO14001 Environmental system certification



ISO9001 quality system certification



High-tech enterprise certification



Contract credit rating identification certificate



Specialized in special new small and medium enterprises



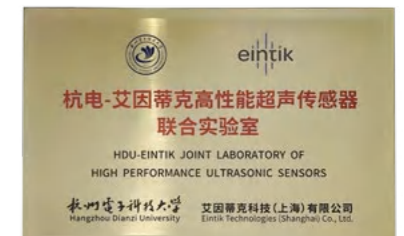
Partner of National Nondestructive Testing Standardization Committee



Excellent Internship base of Nanchang Hangkong University



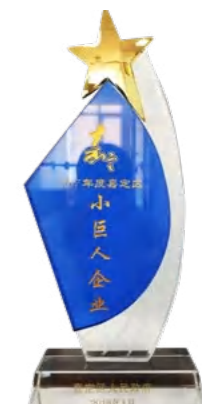
Shanghai High-tech Achievements Transformation Project certificate



Hangzhou Dianzi University Joint Laboratory



Abide by the contract and credit enterprises



"Small Giant" Technology Enterprises

PHASEYE FMC-64

The new generation of FMC and TFM
Ultrasonic Phased Array Flaw Detector

- ✔ Full Matrix Capture (FMC) - up to 128 elements capture at 2GB/S.
- ✔ Total Focus Method (TFM) - Real Time High Efficiency & High Resolution.
- ✔ Built-in Focal Law Calculator (FLC) - 3D simulation technology predicts sound field distribution.
- ✔ A variety of hardware configurations to meet different detection needs - 32: 64PR 32: 128PR 64: 128PR, etc.

A new generation of "phased eye" technology*,TFM/phased array display on the same screen

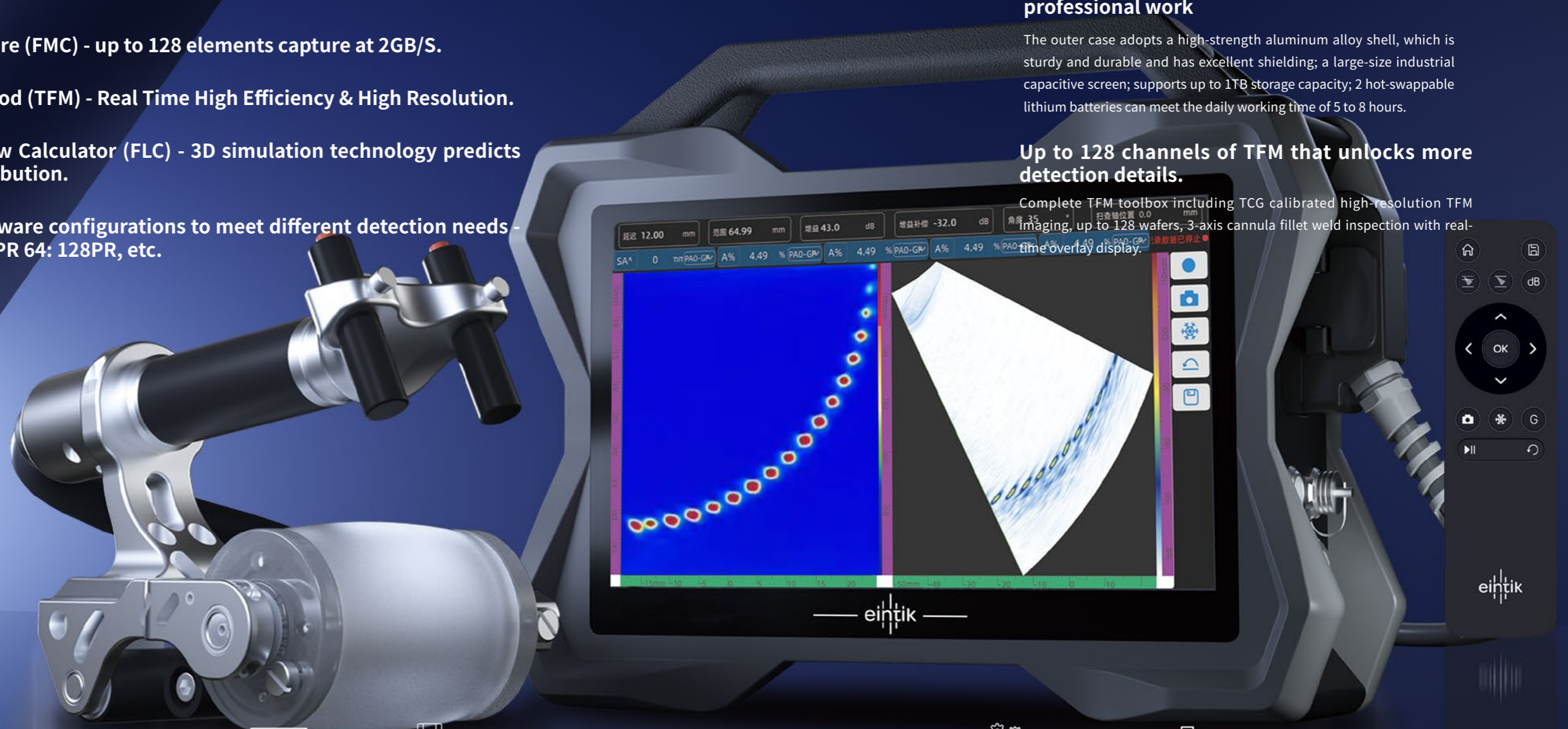
FMC, TFM, and PA technologies can rapidly produce accurate and real-time 3D imaging. Whether conventional ultrasound technology, single-beam, or multi-group, adding PA functions produces even more detailed results. On top of that, synchronous multi-axis encoder linkage makes automatic and semi-automatic detection more efficient.

Equipped with remote control- born for professional work

The outer case adopts a high-strength aluminum alloy shell, which is sturdy and durable and has excellent shielding; a large-size industrial capacitive screen; supports up to 1TB storage capacity; 2 hot-swappable lithium batteries can meet the daily working time of 5 to 8 hours.

Up to 128 channels of TFM that unlocks more detection details.

Complete TFM toolbox including TCG calibrated high-resolution TFM imaging, up to 128 wafers, 3-axis cannula fillet weld inspection with real-time overlay display.



Applications

- Wind turbine blade, glass fiber detection
- Composite materials (carbon fiber) testing
- Aluminum plate and aluminum honeycomb inspection
- Inspection of bolts
- Detection of plane
- Aircraft skin bonding test
- Gear detection
- HDPE pipe resistance welder testing
- Weld inspection

PhaseLink

Advanced ultrasonic system for phased array assembly

The PHASELINK product family delivers robust phased array ultrasonic performance and speed in both FMC and TFM, with specialized system data acquisition and analysis software for general purpose and customized ultrasonic phasing Array systems provide flexible and scalable solutions.



PHASELINK system elements are superimposed

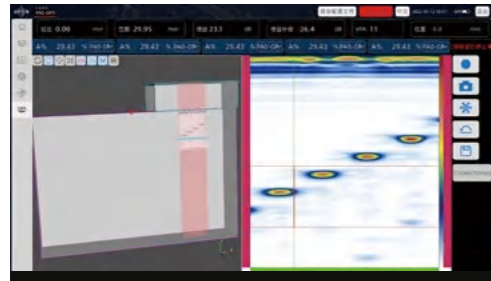
The PHASELINK system unit is infinitely scalable for automated inspection, from a 64:128 configuration to an infinite size. The integrated use of multiple system units of PHASELINK greatly improves inspection speed. Available with: an unlimited number of probes, an unlimited number of Group Settings and more than 13k+ aggregation law.

- ✓ Up to 8 GB/s data transfer rate.
- ✓ Up to 4 phaselinks are used simultaneously.
- ✓ The IP65 is waterproof and dust-proof and durable. The enclosure is equipped with an external fan for optimal heat dissipation.
- ✓ The communication process greatly reduces programming time, minimizes detection cycle time, and increases operator experience.

Advanced phased array mode

Based on the 3D Ultrasonic Simulation Computer System (PHASECAL) with independent intellectual property rights, the application can be efficiently realized:

- ✓ Supports 3D CAD import configuration.
- ✓ 3D real-time imaging: the location and size of defects can be visually displayed in the 3D workpiece.
- ✓ One receive one return function: can effectively detect the weld of stainless steel and other high attenuation materials.
- ✓ Supports simultaneous detection of multiple groups: It is more suitable for complex detection scenarios.
- ✓ Available with probes: one-dimensional linear array, two-crystal linear array DLA, two-crystal matrix DMA, chrysanthemum array, ring array, flexible probe, and custom non-standard probe.



PhaseLink

Data acquisition and analysis scheme

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

FMC and TFM are recognized as one of the highest and fastest resolution PAUT technologies for high-speed ultrasonic detection. TFM is implemented natively on PHASELINK. PHASELINK combines full matrix data acquisition (FMC) capabilities with high data throughput, allowing the device to provide faster image processing capabilities, more accurate images, and a larger inspection area for evaluation.



- ✓ Full focus imaging on 128 chips significantly improves resolution and increases beam coverage.
- ✓ Has a variety of full focus mode.
- ✓ Phased array and full focus are collected at the same time and displayed together.
- ✓ The full focus data of various modes can be collected and displayed at the same time, and the real morphologies of all types of defects can be restored by one collection.

Acquisition software PHASEACQ

PHASEACQ is PHASELINK's latest acquisition software specifically designed for advanced phased array UT, TFM, FMC setup and imaging.

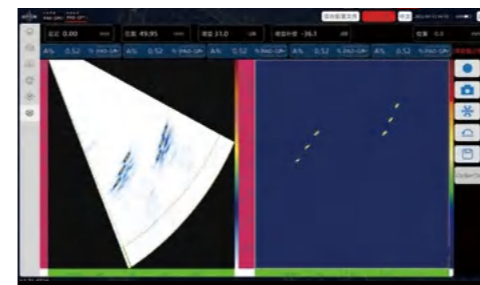
Advanced offline analysis software PHASEANA

Offline analysis software PHASEANA, enables data consolidation, automated analysis and advanced reporting.

Software Development Kit (SDK)

In addition to the acquisition software, Eindec also offers a development kit (SDK) for customizing application based software:

- ✓ Interface for fully automated inspection solutions.
- ✓ Real-time data retrieval (Data server).
- ✓ Language/operating system/computer independence.
- ✓ Full control of PHASEACQ software (remote server) in real time: Gain, TCG, gate, alarm, encoder, etc.



Applications



Aerospace and defense industries

Nondestructive testing of in-service aircraft:

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

Detection:

- Composite material workpiece
- Honeycomb structure enhanced composite workpiece
- Friction stir weld (FSW)



Transportation & Transportation

Detection:

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



The manufacture and processing of metals

Detection:

- Heavy duty forging pipe
- The tablet bar



Oil and Gas

Detection:

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

Industrial Probe series

Application: Nondestructive testing



High-end ultrasonic probe



High-end array probe



Connectors



Industrial testing apparatus



Handheld ultrasound



Industrial wafer Conformation

A single chip area of the sensor is from 0.1mm² to 14400mm², and the frequency of the sensor is from 0.2MHz to 50MHz, in the future will be expanded to 0.05MHz to 500MHz.



Linear (L)



Elevation Focused (EF)



1.5D Matrix (M)



2D Matrix (M)



Annular (A)



Rho-theta Array (RT)



Daisy Array (DA)



Cone array (CA)



Circular Array (CC)



Variable angle (VL)



Skew (SL)



Dual linear (DL)



Dual 1.5D (DM)



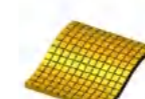
Convex (V)



Concave (C)



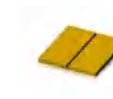
One-dimensional flexible linear array



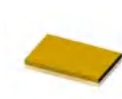
Two dimensional flexible array



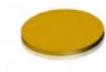
Double primitive circular wafer



Double primitive square wafer



Single primitive square wafer



Single primitive circular wafer



Industrial product series Ultrasonic Probe

Suitable for various applications, such as thickness measurement, defect detection, material research, information collection, medical research and so on.

Application		Using	Transducer series
General	Contact type	Replaceable delay block probe	TOFD transducers
			Protected face transducers
			Dual element longitudinal wave transducers
		Delay line transducers	
		Angle beam transducers	
	Non-replaceable delay block probe	Dual element transducers	
		Double crystal straight probe	
	Liquid immersion (usually water immersion)	Double crystal inclined probe	
		Unfocused immersion transducers	
		Immersion focusing transducers	
Industry Application	Industry-specific probe	Thickness detector transducers	
		Ultrasonic microscope transducers	
		Airline pocket probe	
		Aviation pocket probe (Wafer probe: diameter 3mm, 4*6mm oblique probe)	
		Titanium alloy pipe & bar testing	
		Railway track wheel set detection	
custom probes & Accessories	customization	High temperature transducers	
		0 degree s-wave transducers	
		P-s-wave combination transducers	
		Crawl wave transducer	
		Surface wave transducers	
		Plate wave transducers	
		Guided wave transducers	
		Air-coupled transducers	
		Combined dual elements transducers	
		Four elements transducers	
		Cables	
		Connectors	

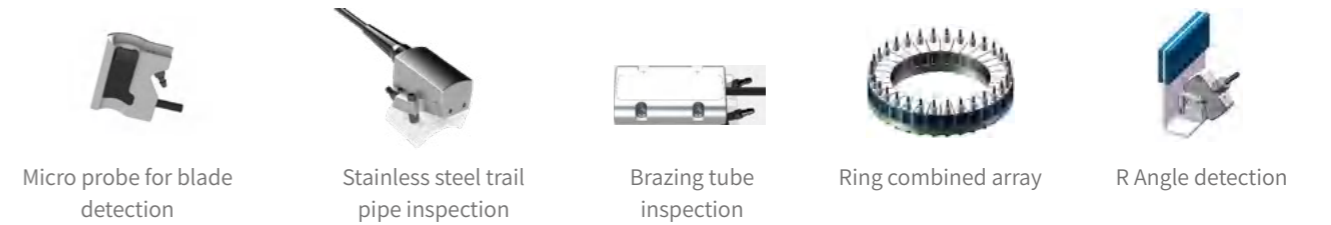




Industrial product series High-end array Probe

Material: piezoelectric composite, linear array: 8-256 array elements
 Array: could be made, 126*128=16384 array elements, frequency: 0.5-18MHZ

应用场景		使用方式	探头系列
universal	Contact type	Replaceable delay block probe	Line array probe
			Face array probe
			Double line array probe
			Double Face array probe
	Liquid immersion (usually water immersion)	Non-replaceable delay block probe	Wear plate array probe
			Integrated wedge array probe
			Unfocused immersion array probe
			Immersion array focusing probe
Industry Application	Industry-specific probe	Aerospace and Aerospace	
		The railway	
		Oil and gas	
		Nuclear power	
		Wind power	
Industry applications & custom probes	custom probes	High temperature probe	
		Concave Array	
		Convex Array	
		Flexible Array	
		Daisy Array(DA)	
		Rho-theta Array (RT)	
		Cone array (CA)	
		Irregular shaped array	





Industrial product series
Phased array ultrasonic probe accessories

Connect wire converter, extension cable



MX2/X3



GE Phasor



AGR



ZETEC



ZETEC



AGR



ISONIC



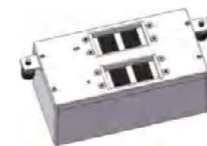
GE Mentor



Custom underwater using

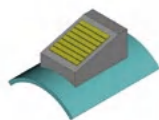


Connector conversion wire

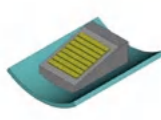


Connector converter box

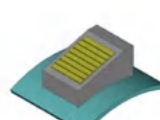
Wedge



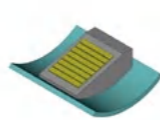
AOD (axial outward diameter)



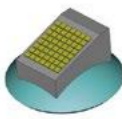
AID (axial inner diameter)



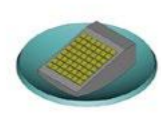
COD (circumferential outward diameter)



CID (circumferential inward diameter)



SOD (ball outward diameter)



SID (Inward diameter of ball)



Industrial product series
Industrial testing apparatus



Phaseye FMC-64 Ultrasonic Phased Array Flaw Detector



PhaseLink Advanced ultrasonic system for phased array assembly

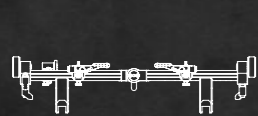


Industrial product series
Handheld ultrasound



Scanner product series

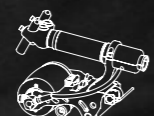
Application: Nondestructive testing



Rod type scanner



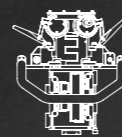
Simple scan device



Wheeled scanner



Chain scan

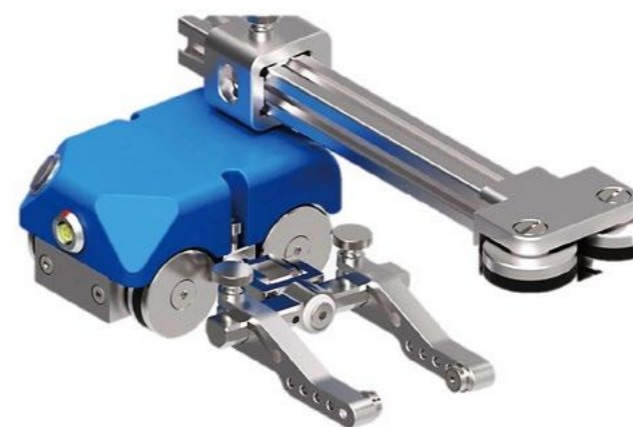


Automatic scanner



Scanner product series

Simple scanning device series



Mirco mouse scanner R13

R13 is a scanner with magnetic wheel, detection of pipeline welding seam or plane plate welding seam scanner.

R13 is composed of three parts: scanner main module, clamping head module, sliding rod module. Depending on the operating condition, the slider module may not be installed, or it may be installed. In general, only when the slider module has a positioning surface can the slider module be installed for detection. The clamping head module can be installed on the right or left side according to the working condition.



Tofd Mirco scanner R22

R22 is mainly used to detect pipeline weld or flat plate weld. The scanner is composed of angle adjustment handle, TOFD clamping frame module A, TOFD clamping frame module B, water distribution pipe assembly and other parts. The main bracket of the scanner adopts a step ladder structure, and each side can hold a TOFD probe. The angle of the main bracket can be adjusted to adjust the distance between the two probes. The overall structure of R22 scanner is simple, convenient disassembly and assembly, elastic clamping, hand-held operation.

Series Products



R6-C conventional scanner



Mirco rod scanner R21



R47- Simple blade scanner



R40-Mouse-rod type scanner



R43 Simple handheld scanner



Rod scanner R23

R23 rod scanner is with magnetic wheel, which is used to detect pipeline welds or flat plate welds. It is composed of 8 parts: sliding magnetic wheel frame module, PA clamping frame module A, PA clamping frame module B, rod support, fixed magnetic wheel frame module, TOFD clamping frame module A, TOFD clamping frame module B, encoder, according to the working condition, it can choose PA clamping frame module;Or TOFD clamping frame module;Or PA gripper module and gripper module.The standard length of rod support is available at 250mm, 450mm and 650mm.



Variable diameter rod scanner R29

R29 rod variable diameter scanner is a kind of suitable flange pipe crack detection scanner, through the curvature adjustment can detect longitudinal cracks and circular cracks.The scanner can be installed with three sets of probes, enabling simultaneous detection of welds using TOFD (diffraction difference method) probe, PA (phased array) probe and pulse-echo technology. R29 adopts standard modular design, its basic module consists of: connecting rod module, slide rod module, clamping frame A module, clamping frame B module, clamping frame C module, encoder module.

Series Products



R42 Three-rod type scanner



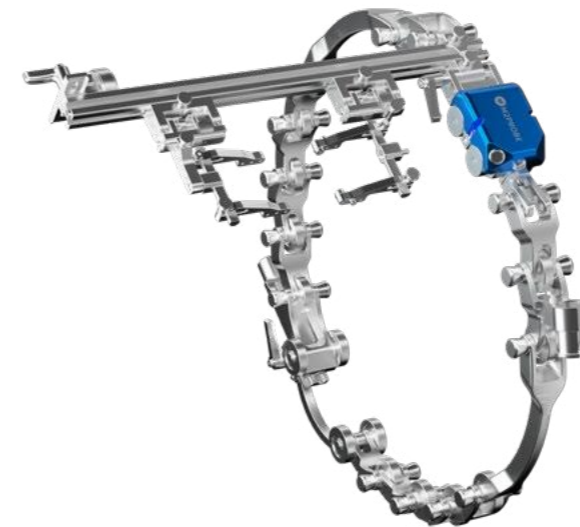
R49 Rotary double rod scanner



R3-S Rod type scanner



R3-D 杆式扫查器



R11- large diameter Single chain pipe weld scanner

R11 is a manual scanner mainly used for detecting pipe defects with diameter of more than 8 inches (standard 8-50 inches). It can be used for pipe inspection with different diameters according to the configuration of different number of chain modules. R11 is capable of simultaneously using TOFD probe, PA (phased array) probe and pulse echo technology to detect welds.

同系列产品



R20 Double chain trail pipe weld scanner



R20 Small diameter weld scanner series



Bend pipe corrosion scanner R5

R5 detects pipe or pipe elbow inner wall corrosion, flexible probe inserted into the water wedge, and fixed on the water wedge block.Its bending shape changes with the radius of the wedge, and the flexible probe passes through the coupling of water inspect pipes. Each water wedge has a different diameter to accommodate a range of pipe diameters.By adjusting the scanner, different water wedges can be clamped. We can supply suitable water wedge.

It is a standard modular design that can be replaced with different frequency flexible probes according to inspection requirements applications.The main modules include: scanner body, E05 encoder, water wedge block, flexible probe.

Series Products



Wind turbine blade scanner



R32- Flexible blade scanner



R39- Flexible probe scanner

Scanner product series
Roller type series



R48- Large wheel scanner

R48 is a new type of phased array probe with rollers for the detection of composites and other smoothed surface materials, such as those commonly used in the aerospace industry. Easily implemented as an alternative to full 2D coding systems, wheeled scanners also provide a viable alternative to immersion detection techniques. Unique tire material to ensure high quality, immersion ultrasonic testing. For wheeled scanners, minimal coupling and pressure is needed to provide good coupling and a strong signal, even in difficult scanning positions.

Series Products

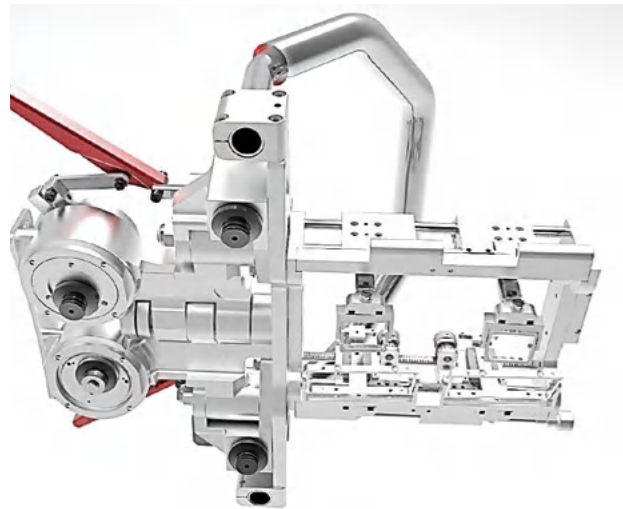


Roller Scanner R1



Mini roller scanner R4

Scanner product series
Automatic scanner series



Pipeline scanner R30

R30 pipeline scanner is a kind of applicable pipeline crack detection electric scanner, mainly used to detect the pipeline ring seam. Curvature adjustment can be used for pipe diameter 12 to 48 inches. The scanner can be fitted with four sets of probes, enabling simultaneous detection of welds using TOFD (Diffraction difference method) probe, PA (phased array) probe and pulse-echo technology. R30 pipeline scanner is mainly divided into two parts: electric scanning frame module and probe frame module. The curvature of the electric scanning frame module is adjustable, and it crawls around the detected pipeline on the track held by four clamping wheels. Different detection speeds can be selected according to working conditions. Probe frame module can be installed four groups of probe, and the probe position can be extended guide rod direction adjustment.

Series Products



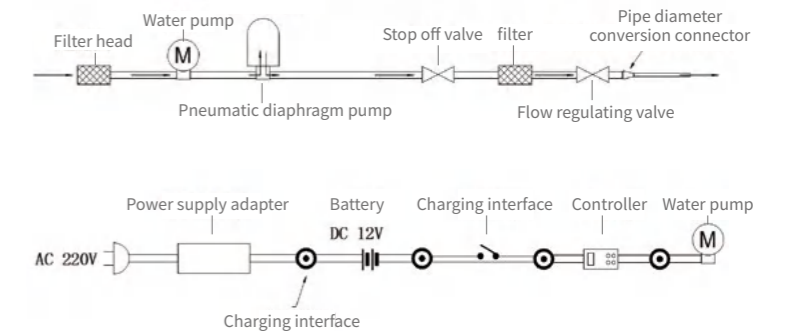
Magnetic magnetic trolley

Scanner product series
Couplant Feed Unit



Couplant Feed Unit R9

Couplant Feed Unit R9 is a portable pull rod toolbox integrated filter, mute motor, air pressure diaphragm pump, flow control device, supply to probe by the pipe, coupling agent stored in the supply tank air bag, pressure flow control device can adjust the pressure automatic supply coupling agent matching scan as needed. Airbag pressure max 1.0 Mpa. Air pressure diaphragm pump tank capacity 1 liter. 12 lithium batteries built into operating box.



Scanner product series
Encoder



E01- Mini encoder



Pull wire encoder



Rod type encoder



Medical product series

Application: customized probe, development cooperation



Medical custom probe



Medical endoscopic probe



Single array element customization



Array probe



Flexible probe



High-frequency two-dimensional planar array ultrasonic sensor

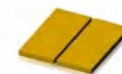


Medical product series Medical custom probe

Typical medical phased array probes range in frequency from 1MHz to 20MHz and number of chips from 10 to 128. Aintic provides its customers with probes for routine use and has the capability to provide high-precision phased array probes with up to 256 wafers. We also support customize the probe for the special needs for the specific application requirements of users.



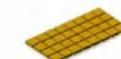
Single primitive square wafer



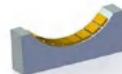
Double primitive square wafer



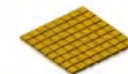
1D linear array



1.5D array



Concave array



2D array



Single primitive circular wafer



Double primitive circular wafer



Circular circle array



1D flexible linear array



Polar surface array



Daisy Array(DA)



Cone array (CA)



Convex array



2D flexible linear array

Application

Pulse echo type

Single probe

Cavity probe

Puncture probe
(through the rectum
and vagina)

Intraoperative probe
(Surgery, assistance)

Electron probe

Convex array probe
(Abdomen, obstetrics and
gynecology, pediatrics)

Line array probe
(Blood vessels, surgery, fetus)

Phased array probe
(Deep abdomen, heart)

Doppler type

Plum flower pattern
(Fetus in abdomen)

Common forms

Array (≥ 8 elements)

line array

intraoperative

Through the esophagus

intracavity

Phased array

Convex array

The piercing

Endovascular observation

laparoscope

volume

Single and multi-channel (<8 element)

Intraperitoneum
of digestion

Ophthalmology
A ultrasound

Power therapy

Photoacoustic
dual mode

Coupling of air

Endovascular
observation

Ophthalmology
B ultrasound

Power double
mode

Tissue thickness
measurement

Doppler



Medical product series

Endoscopic series probe

No.	Name	Image-other	Type	Nb of elts	Freq	Pitch	ROC	El.apert	El.focus	
1	12M, 1x2x0.75mm		LA	1	12	1	/	2	/	Finished product + sound head
2	20M, 1x2x0.75mm		CLA	1	20	1	/	2	/	Finished product + sound head
3	50M, 0.5x0.5x0.4mm		PA	1	50	0.5	/	0.5	/	Finished product + sound head

Application: digestive endoscopy, bronchoscopy, intraoperative blood vessel detection, blood flow detection, surgical accident prevention, etc



Medical product series

Flexible probe

Flexible probe series, could use on wearable devices

No.	Name	Image-other	Type	Nb of elts	Freq	Pitch	ROC	El.apert	El.focus	
1	8 matrix element		LA	8	7.5	1	N/A	3	N/A	Finished product + sound head
2	32 array element		CLA	32	/	/	N/A	/	N/A	Finished product + sound head
3	32 array element		PA	32	/	/	N/A	/	N/A	Finished product + sound head

Application: ultrasonic fat measuring instrument, etc



Medical product series
Single element custom series

No.	Name	Image	Type	Nb of elts	Freq	Pitch	ROC	El.apert	El.focus	
1	1M3 breast screening test		LA	1	1	N/A	N/A	N/A	N/A	Finished product + sound head
2	5M6 Measurement of fat		CLA	1	5	5	N/A	5	N/A	Finished product + sound head
3	15M1x1.5 Orthopedic drilling test		PA	1	15	1	N/A	1.5	N/A	Finished product + sound head
4	20M30 phthalmic examination		LA	1	20	/	N/A	/	15w	Finished product + sound head
5	10M5 phthalmic examination		SE	1	10	/	N/A	/	8	Finished product + sound head
6	20M6 phthalmic examination		SE	1	20	/	N/A	/	8	Finished product + sound head

Application: ultrasonic fat measuring instrument, etc



Medical product series
Array probe series

No.	Name	Image	Type	Nb of elts	Freq	Pitch	ROC	El.apert	El.focus	
1	9L128-0.24X4-M6		LA	128	8	0.24	N/A	3.5	15	Finished product + sound head
2	3.7C128-0.19X13-M14		CLA	128	3.7	0.49	60	13	80	Finished product + sound head
3	2.5L64-0.24X14-M4		PA	64	2.5	0.24	N/A	14	80	Finished product + sound head
4	15L128-0.2X3-?		LA	128	12	0.2	N/A	3	8	Finished product + sound head
5	7.5L128-0.3X4.5		LA	128	7.5	0.3	N/A	4.5	15	Finished product + sound head

Array probe product



line array-D11



Convex array-DX



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