

Performance

Parameter	PA Module	Conventional UT
Configuration	Receive/Transmit	64/128PR, 64/64PR, 32/128PR
	Range	9900μs
	Velocity	340-15240m/s
Pulser	Test Mode	PE/PC
	Voltage	10V-200V/1V
	Pulse Shape	Bipolar Square Wave/Negative Square Wave
	Pulse Width	20-1250ns/2.5ns
	Rise Time	<10ns
	PRF	40KHz
	Delay	20μs/2.5ns
Receiver	Gain	0-120dB
	Bandwidth	0.18-27MHz
	Delay	20μs/2.5ns
Data Acquisition	Sampling Rate	200MHz
	ADC	16bit
	Maximum A-scan	16384
	Focus Type	True Depth/Sound Path/Projection/Focal Plane
Scan/Display	Rectification Mode	FW/HW+/HW-/RF
	Type	TFM/Linear/Sectorial/Compound scanning
DAC	Display Mode	A/B/S/C/TFM/3D/TopC/Band chart
	Unit	mm/inch
TCG	Point	16
	Gain Range	40dB
Gate	Number	A/B/C/I+ Custom Gate
	Threshold	0-100%
TFM	Point	1024*1024
	Frame Rate	94Hz@256*256
Report		WORD, PDF, EXCEL
Data Storage	ROM	U Disk/SSD (built-in) Max. 1T
Display Screen	Size	12.1 inch
	Resolution	1280x800 pixel
I/O Port	Type	Industrial TFT LCD touch screen
	USB	2 USB3.0+1 USB2.0
	Ethernet	1,1000Mb/s
	Video Output	HDMI
	Encoder	LEMO 16-pin;Maximum support triaxial
Language	Multifunctional Interface	LEMO 14-pin
		Chinese/English/Russian/French/German/Italian
Power Supply	DC Supply Voltage	15V DC
	Battery Type	Lithium battery10.8V 97.2Wh (Hot Plug Support)
	Continuous Working Time	About 5 hours
Case	Size	362x254x121mm
	Weight	4.8Kg (Excluding battery)
IP level		IP65

* All specifications are subject to change without prior notice.



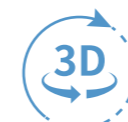
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DOPPLER ELECTRONIC TECHNOLOGY

Phased array ultrasonic detector NOVASCAN V3



Real time 3D
detection function



TFM detection
points 1024 x 1024



Simultaneous focusing
simulation of multiple
groups



Two-dimensional
scanning and
intelligent analysis

NOVASCAN V3

High-speed and accurate, versatile and portable, and more efficient detection!

NOVASCAN V3 has upgraded both software and hardware on the basis of V2 version, which further optimizes the detection performance. The expansion of pulse voltage and frequency band improves the adaptability and accuracy of the equipment. At the same time, a physical shortcut button is added on one side of the screen to improve the convenience of operation and better meet the requirements of on-site detection. V3 integrates high-speed detection and real-time imaging, and is widely used in large and medium-sized industrial detection sites, universities and scientific research laboratories.

It not only supports phased array (PAUT) and conventional UT, but also is equipped with real-time TFM. Combined with the latest operating software, it realizes a more intelligent and humanized interactive experience. It is the most comprehensive phased array/TFM portable detection equipment on the market.

Why choose V3?

Model	FMC-PCI/ PWI-PCI	AIM Acoustics Impact Diagram	DMA/DLA- TFM	Physics Shortcut keys	Bandwidth Range	Maximum Emission Voltage	Wave Height	Number of Alert Groups
NOVASCAN V3	✓	✓	✓	✓	0.18-27MHz	200V/1V	1600%	3
NOVASCAN V2	✗	✗	✗	✗	0.3-25MHz	120V/10V	800%	1

Industry-leading TFM detection technology

- Support FMC-TFM/PWI-TFM/FMC-PCI/PWI-PCI/3D imaging technologies.
- Compatible with linear array, matrix array, DLA probes and other types of probes.
- TFM sensitivity calibration to ensure accurate detection.
- TFM two-dimensional scanning, more comprehensive coverage.
- Support FMC data export to meet the needs of deeper data analysis.

TFM/PA real-time 3D detection

- Real-time 3D Imaging Based on Matrix Array Probe.
- Coded 3D imaging based on linear array probe.

The detection scheme is more efficient by adapting to various workpiece simulations.

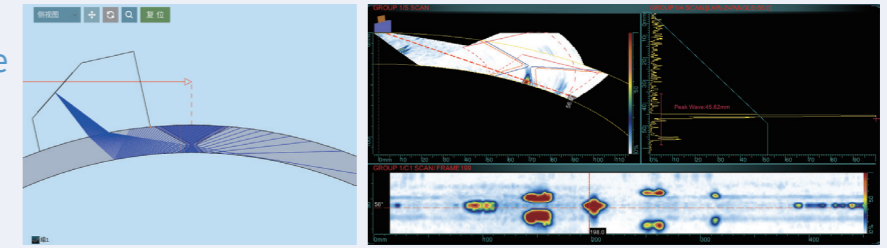
- Support 3D real-time simulation of complex workpiece models such as fillet weld, pipeline longitudinal seam and B-sleeve.
- Quickly develop testing technology to improve overall testing efficiency.

Brand-new AIM acoustic influence diagram, optimizing detection process

- One-click view of sound field energy range distribution.
- Adjust the scanning plan (aperture, scanning frequency, probe position, etc.) more accurately, optimize the signal-to-noise ratio and detection rate, and realize more high precision detection.

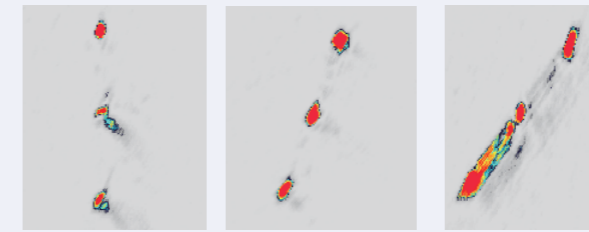
Super-practical workpiece model base

Built-in rich workpiece models: pipe nozzle, R angle, fillet weld, etc., and support the import of CAD graphics, and flexibly formulate the best inspection process plan.

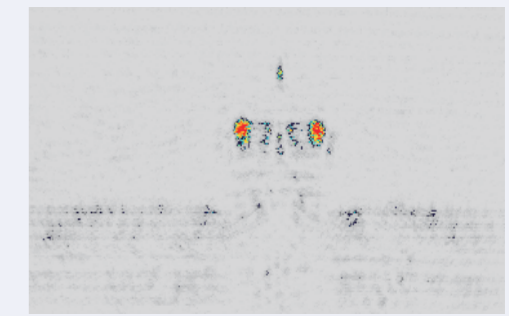


Newly upgraded PCI function

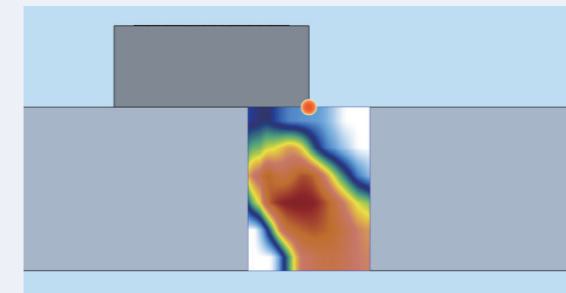
PCI coherent imaging can improve the detection ability of point-like weak reflection defects, such as diffraction signal at crack tip, and can also improve the detection ability of small defects and the signal-to-noise ratio of defect detection of coarse-grained materials.



Through slot 20° through slot 45° through slot
Steel material, L=10mm, W = 0.15mm



Copper material, φ0.1mm flat hole



New AIM acoustic influence diagram

Visualize the energy coverage of the probe sound field, help optimize the detection process, and improve the detection sensitivity and accuracy.



Powerful TOFD analysis

Intelligently optimize the data, solve the problem of "pricking edge" caused by rough surface of workpiece or the difficulty of measurement caused by defects close to straight wave, and judge TOFD data efficiently by one-click straight wave or removal.

