# **Performance**

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PA&TOFD

Simultaneous
PA + TOFD detection



Newly upgraded offline data analysis software



Quick import module with AutoCAD





# PhaScan PAUT Instrument

Phascan is a high-level portable phased array ultrasonic detector independently developed by Doppler. It has stronger practicability because of its independent 128 hardware transmission channels, supporting 1024 focal laws, powerful data analysis software and "ultrasonic simulation calculator" . It is the first choice for the research and application of phased array ultrasonic detection technology.

### **Futures**

- 16/64; 32/64; 32/128; 32 / 128PR four models are optional
- 128 independent hardware transmission channels, supporting 1024 focal laws
- PA + TOFD detection and conventional ultrasonic detection can be carried out at the same time
- · Fast calibration of sound velocity, delay, sensitivity, TCG, etc. to meet the requirements of the new standard in advance
- · The pulse repetition rate can reach up to 20kHz, perfectly supporting the needs of rapid detection
- 10.4 "TFT LCD touch screen, fine image and convenient operation
- Including Auto CAD module to quickly and intuitively determine defects
- A / B / S / C / TOFD / off-line 3D and other display modes, recorded by full data encoder
- Newly upgraded offline data analysis software with more powerful functions

# New Upgrades Support AutoCAD Import Function!

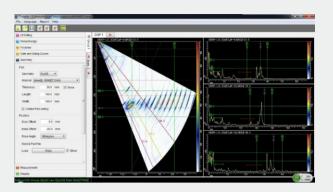


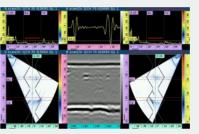




## Offline analysis software

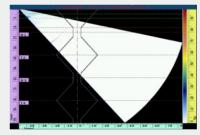
- Phascan instrument is equipped with an off-line analysis software based on computer platform. The software has 17 display modes, supports 8 groups of data to be displayed at the same time, supports local image magnification, and can quickly locate and measure defects, generate detection reports.
- The off-line software supports automatic defect evaluation, and all defects are screened with one click, which greatly reduces the workload of data analysis and improves the work efficiency.





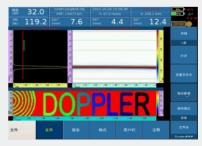
### TOFD&PA

 Dual independent high-performance conventional ultrasonic flaw detection channels can implement single channel flaw detection or dual channel TOFD detection at the same time of phased array detection, and the defect information is richer.



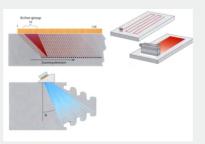
#### Weld illustration function

• For weld workpieces that meet industrial standards, the weld illustration function is helpful to analyze defect signals and locate volumetric defects.



## Data acquisition / analysis / management

- The instrument can be connected with automatic, semi-automatic scanner system or simple wheel encoder .
- Single axis encoder can be configured or time coding can be adopted
- Interactive analysis of A/B/S/C scan is available.
- All measured readings can be obtained online, and the measured values can be viewed offline after saving the complete A-scan data.
- The test data can be stored in SD card or USB.



# Multiple scanning modes

• Built in focal law calculator, which can realize various scanning methods such as sectorial/linear scan.