



Portable Phased Array Flaw Detector

FLEXSCAN is a compact, portable and powerful phased array ultrasonic detector with high cost performance. It is equipped with 64 independent hardware transmission channels and supports dual system design, which can be used for basic phased array detection and special bolt detector. The instrument also includes conventional channels, which support TOFD or UT detection. Because of its lightweight design, it is especially suitable for aerial work and becomes an ideal choice for entry-level phased array equipment.

Multi-Modal And Cost-Effective Detection Platform

Support phased array (PAUT), TOFD, UT and bolt special detection multi-mode, single equipment covers a variety of industrial scenes, reduces costs, and realizes "small body, big skills".

Dual-System Intelligent Switching Architecture

Unique "PAUT+ bolt inspection" dual-engine design, quickly switching working modes, flexible response to different inspection tasks.

Lightweight And Strong Environmental Adaptability

3.5kg ultra-portable fuselage, suitable for high-altitude scenes such as hanging baskets, towers and pipe corridors.

Interactive Optimization And Efficient Operation

The bolt system offers several preset detection processes for common bolt types, which can be easily saved and recalled with a single key press. The imaging results are multi-modal, allowing for real-time 3D visualization of bolt defects. Detected defects are clearly distinguished by color, making it easy to identify and assess different types of issues.



FLEXSCAN Performance index of phased array ultrasonic detector

Parameter	PA Module	Conventional UT
Configuration		
Receive/Transmit	32/64PR, 16/64PR	1 / 2
Range	9900μs	9900μs
Velocity	635-15240m/s	635-15240m/s
Pulser		
Test Mode	PE / PC	PE / PC / TT / TOFD
Voltage	50V / 100V/130V	100V / 200V / 400V
Pulse Shape	Negative Square Wave	Negative Square Wave
Pulse Width	30-500ns	30-500ns
Rise Time	<8ns	<8ns
PRF	20KHz	20KHz
Delay	10μs / 2.5ns	10μs / 2.5ns
Damp	N/A	50Ω/200Ω
Receiver		
Gain	0-80dB	0-110dB
Bandwidth	0.5-18MHz	0.5-20MHz
Input Impedance	200Ω	133Ω
Input capacitance	60pF	60pF
Receiving Delay	10μs / 2.5ns	10μs / 2.5ns
Scan/Display		
Type	Linear/sector scanning	NA
Display Mode	A/B/C/S	A/B ,TOFD
Unit	mm/inch	mm/inch

Parameter	PA Module
TCG	
Point	16
Gain Range	40dB
Max Gain Slope	40dB/μs

Parameter	PA Module
DAC	
Point	16
Gate	
Doorsill	A/B/I
Gate Threshold	0-98%
Gate Trigger Mode	Peak/leading edge
Report	
Report	Web
Data Storage	
Pluggable Memory	Flash Drive/SD card(Built-in)
Display Screen	
Size	8.4 inch
Resolution	800*600 pixel
Type	TFT LCD Touch Screen
I/O Port	
USB	2
Internet	10/100M
Video Output	HDMI
Encoder	LEMO 16-pin
Language	
Language	Chinese/English/Russian
Power Supply	
DC Supply Voltage	15V DC 4A
Battery Type	Lithium battery
Continuous Working Time	About 4 hours
Case	
Size	296mm×209mm×89mm
Weight	3.5Kg(excluding battery)

