

Performance

Parameter		PA Module	Conventional UT
Configuration	Receiver/Pulser	32/64	1/2
	Range	9900μs	9900μs
	Velocity	635-15240m/s	635-15240m/s
Pulser	Test Mode	PE/PC	PE/PC/TT/TOFD
	Voltage	50V/120V/130V	100V/200V/ 400V
	Pulse Shape	Negative Square Wave	Negative Square Wave
	Pulse Width	30-500ns	30-500ns
	Rise Time	<8ns	<8ns
	PRF	20KHz	6KHz
	Delay	10μs/2.5ns	10μs/2.5ns
Receiver	Gain	0-80dB	0-110dB
	Bandwidth	0.5-18MHz	0.5-20MHz
	Delay	10μs/2.5ns	10μs/2.5ns
	Input Capacitance	60pF	60pF
Scan/Display	Type	Linear/ Sectorial Scanning	NA
	Display Mode	A/B/C/S Scan	A/B
	Unit	mm/inch	mm/inch
Gate	Doorsill	A/B/I	
	Gate Threshold	0-98%	
	Gate Trigger Mode	Peak/Leading Edge	
DAC	Point	16	
TCG	Point	16	
	Gain Range	40dB	
	Max Gain Slope	40dB/μs	
Report		HTML	
Data Storage	Pluggable Memory	Flash Drive /SD Card	
Display Screen	Size	8.4 inch	
	Resolution	800*600pixel	
	Type	Industrial TFT LCD Capacitive Touch Screen	
I/O Port	USB 3.0	2	
	Internet	100Mb/s	
	Video Output	HDMI	
	Encoder	LEMO 16-Pin;Uniaxial	
Language		Chinese/English/Russian	
Power Supply	DC Supply Voltage	15V DC	
	Battery Type	Lithium Battery (Hot Plug Support)	
	Continuous Working Time	About 4 hours	
Case	Size	296mm×209mm×89mm	
	Weight	3.5Kg(No battery)	

Stock code: 301528



DOPPLER ELECTRONIC TECHNOLOGY

PAUT DETECTOR
FLEXSCAN



64 independent
transmission channels



Dual system
Phased array / bolt detection
system



With conventional channels
Support TOFD or UT detection



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FLEXSCAN

Portable phased array ultrasonic testing expert

Flexscan phased array ultrasonic detector is a small, lightweight, flexible and versatile portable instrument with high performance and 64 independent hardware transmission channels. The instrument has dual systems, which can complete the basic phased array detection function, also can be used as a special bolt detector. In addition, it has a group of conventional channels for TOFD or UT detection. The lightweight characteristics make it especially suitable for high-altitude operation. It is the best choice for entry-level phased array equipment.

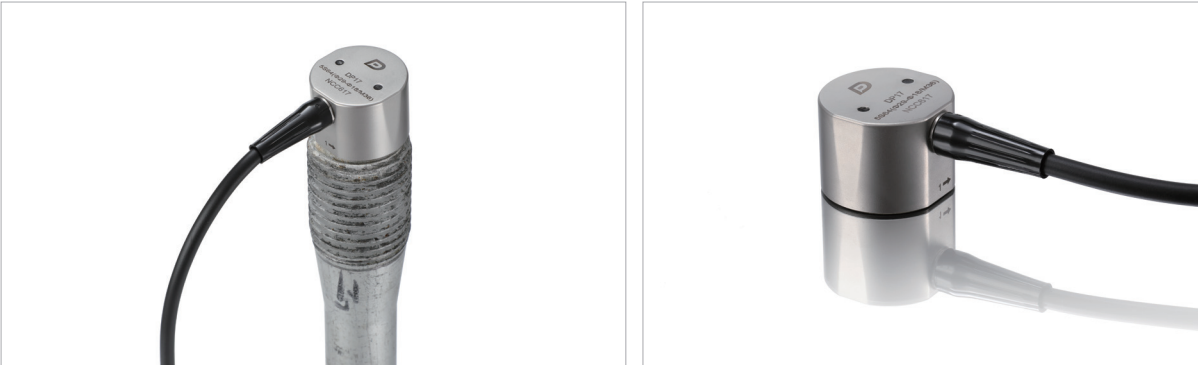
PA detection system

Flexscan continues the functional characteristics of Phascan instrument, and has good versatility. The maximum number of channels is 32/64, with 64 hardware channels that can be independently transmitted, and the maximum number of receiving channels can be simultaneously excited. Able to carry out all kinds of weld detection and corrosion detection. It supports the detection of near-surface defects with double-line array probes. The instrument supports the functions of graphic display of weld seam, graphic loading of CAD workpiece, simultaneous detection of multiple groups, simultaneous detection of PA and TOFD, etc. Meet most phased array detection requirements. There is a wizard function to guide customers to set parameters step by step. After the test is completed, the data can be analyzed at the instrument end and a complete report can be generated.

The shell of the instrument is made of durable aluminum alloy, the interface is firm and durable, and the whole machine is well sealed. The instrument comes standard with a battery, which can be hot-swapped and operated.

Bolt detection system

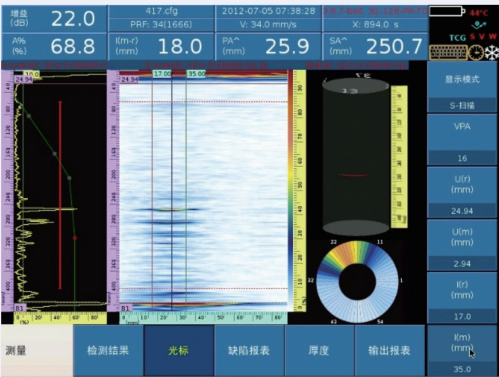
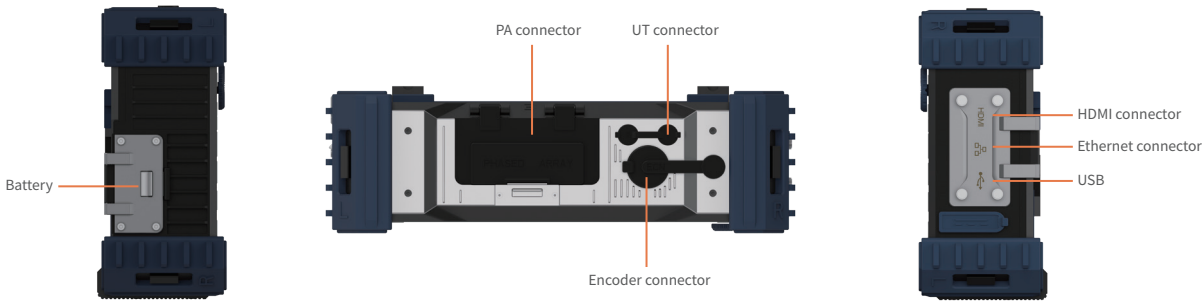
Flexscan can be equipped with bolt detection software system, and it can switch freely between PA system and bolt detection system, which is convenient and quick. The special bolt system, combined with the special chrysanthemum array phased array probe of Doppler, has the effect of 3D real-time display to detect cracks from the top of the bolt. When the defects exceed the standard, it can give an audible and visual alarm, making it easier to detect defects. It is suitable for the detection of in-service bolts.



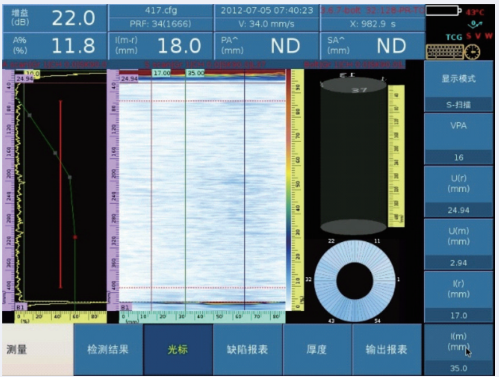
Chrysanthemum array probe



Bolt detector



Detection image of cracked bolt



Detection image of crack free bolt