



DOPPLER[®]

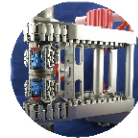
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📍 Tehran, Tehransar

DOPPLER

Product Manual

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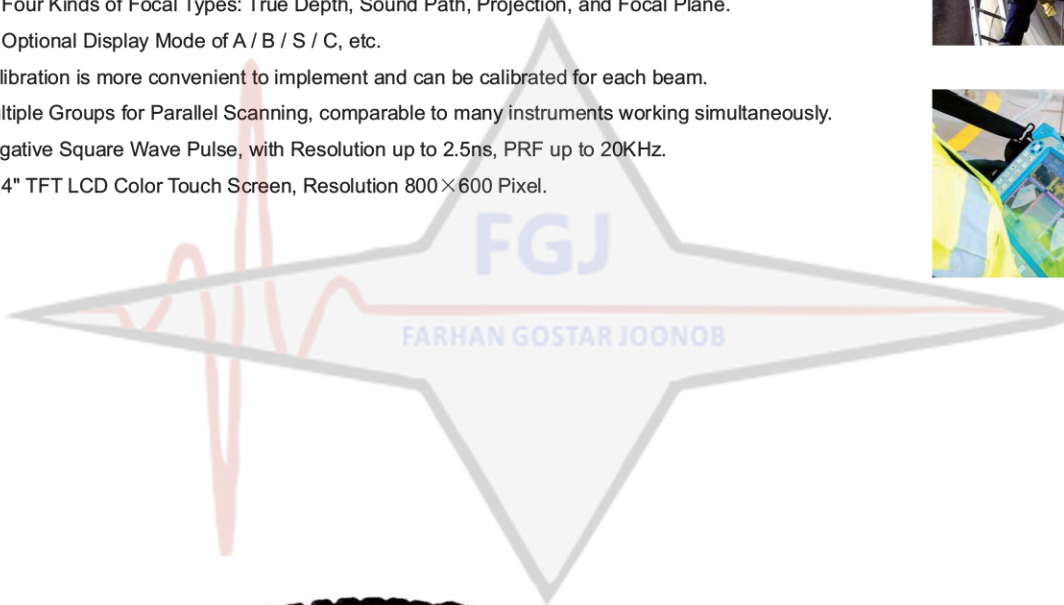
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New Upgrades
Support AutoCAD Import Function!

- 32/64PR ; 32/128PR Receiver/Pulser Channels for Phased Array.
- Dual Independent Channels for High-performance TOFD Detection.
- Embedded Focal Law Calculator, which can perform:
 - Four Kinds of Scanning Modes: Linear, Sectorial, Depth and Static.
 - Four Kinds of Focal Types: True Depth, Sound Path, Projection, and Focal Plane.
 - Optional Display Mode of A / B / S / C, etc.
- Calibration is more convenient to implement and can be calibrated for each beam.
- Multiple Groups for Parallel Scanning, comparable to many instruments working simultaneously.
- Negative Square Wave Pulse, with Resolution up to 2.5ns, PRF up to 20KHz.
- 10.4" TFT LCD Color Touch Screen, Resolution 800×600 Pixel.



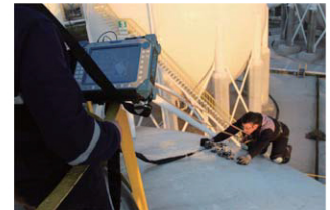
Performance

Parameter	PA Module	Conventional UT
Config.	Receiver / Pulser	32/128
	Range	9900 μ s
	Velocity	635-15240m/s
	Focal Law	1024
Pulser	Test Mode	PE / PC
	Voltage	50V / 100V
	Pulse Shape	Negative Square Wave
	Pulse Width	30-500ns
	Rise Time	<8ns
	Frequency	20KHz
	Delay	10 μ s / 2.5ns
	Damping	NA
Receiver	Gain	0-80dB
	Bandwidth	0.5-15MHz
	Input Impedance	200 Ω
	Input Capacitance	60pF
	Delay	10 μ s / 2.5ns
Scan/Display	Type	Linear/Sectorial/Static/Depth
	Display Mode	A/B/C/S
	Unit	mm / inch
DAC	Points	16
TCG	Points	16
	Dynamic Range	40dB
	Max Gain Slope	40dB/ μ s
Gate	Gates	A / B / I
	Threshold	0-98%
	Trig Mode	Peak / Edge
Report		HTML
Data Storage	Storage Devices	USB Devices / SD Card
Display Screen	Size	10.4 inch
	Resolution	800 \times 600 pixel
	Type	TFT LCD Touch Screen
I/O Port	USB	3
	Internet	10/100M
	Video Output	DVI / VGA Compatible
	Encoder	Applicable
Language		English / Chinese
Power Supply	Power Supply	15V DC 4A
	Battery	LithiumIon Battery
	Battery	Operatable While Charging
	Battery Life	8h (two batteries)
Housing	Dimensions	325mm*230mm*130mm
	Weight	4.5Kg (without battery)

FLEXSCAN Portable Phased Array Flaw Detector

Flexscan is the latest PAUT Flaw Detector developed by Doppler. It's a Continuity of Phascan, with excellent performance. With 43% volume and 22% weight reduced, also hardware and software optimized, Flexscan is ideal for on-site inspection.

- 16/64PR; 32/64PR Receiver/Pulsar Channels for Phased Array.
- 8.4" TFT LCD Color Touch Screen, easy to operate
- PA, TOFD and Conventional UT can be performed simultaneously
- Multiple Groups for Parallel Scanning, comparable to many instruments working simultaneously.
- Fast Calibration of Velocity, Wedge Delay, Sensitivity, TCG and so on
- Fast Setting of many kinds of Common Weld Graphs
- Support AutoCAD Import Function
- Optional Display Mode of A / B / S / C / TOFD / Offline 3D
- New Upgraded Offline Data Analysis Software, more powerful



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Performance

Parameter		PA module	Conventional UT
Config.	Receiver / Pulser	32/64	1 / 2
	Range	9900 μ s	9900 μ s
	Velocity	635-15240m/s	635-15240m/s
	Focal Law	1024	
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
		20KHz	20KHz
	Delay	10 μ s / 2.5ns	10 μ s / 2.5ns
Receiver	Damping	NA	50 Ω / 500 Ω
	Gain	0-80dB	0-110dB
	Bandwidth	0.5-15MHz	0.5-20MHz
	Input Impedance	500 Ω	500 Ω
	Input Capacitance	60pF	60pF
Scan/Display	Delay	10 μ s / 2.5ns	10 μ s / 2.5ns
	Type	Linear/Sectorial	NA
	Display Mode	A/B/C/S	A/B TOFD
	Unit	mm / inch	mm / inch
DAC	Points	16	
TCG	Points	16	
	Dynamic Range	40dB	
	Max Gain Slope	40dB/ μ s	
Gate	Gates	A / B / I	
	Threshold	0-98%	
	Trig Mode	Peak / Edge	
Report		HTML	
Data Storage	Storage Devices	USB Devices / SD Card	
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	DVI-D	
	Encoder	Applicable	
Language		English / Chinese	
Power Supply	Power Supply	15V DC 4A	
	Battery	LithiumIon Battery	
	Battery	Operatable While Charging	
	Battery Life	4h	
Housing	Dimensions	296mm*209mm*89mm	
	Weight	3.5Kg (without battery)	

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