

32:128PR PAUT & 2-ch TOFD Flaw Detector





Maximize Your Efficiency

Multiple Solutions for Welds & Corrosion





SyncScan 8

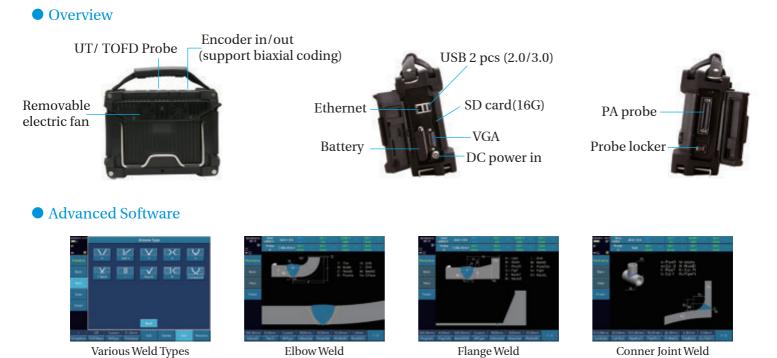
Hign-end PAUT & TOFD Flaw Detector

Maximize Your Efficiency



SyncScan 2 is 32:128PR PAUT flaw detector with optional 2-ch TOFD, which can maximize your efficiency for PA and TOFD.

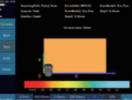
- Light weight: 4kg only including battery.
- Faster scan speed (Approx. 3 meters/minute).
- Removable electric fan: cool down the system when in high temperature.
- 1 or 2 ch-TOFD for your selection by license activation.
- Support UT/PA/TOFD, suitable for weld, forging and plate inspection.
- 32-channel PA is more suitable for inspection on extra-thick wall and high-attenuation material.
- 32-channel PA and 2-channel TOFD work simultaneously on pressure vessel inspection (TOFD can measure thickness up to 100mm).
- Support pitch and catch (PR) mode, corrosion inspection with dual linear array probe.

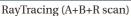


Various Weld Types

Various workpieces and weld types for selection according to different on-site application.



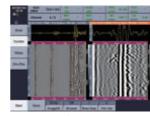


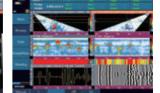


Corrosion Wizard









Conner Joint Weld

2 ch-TOFD

Simultaneous Display of PAUT&TOFD

- Multi-view mode helps to locate defects more easily.
- Customized color map to visualize different wall thickness.
- PAUT+TOFD inspection enhances the testing efficiency.

* EN-12668-1 compliant; ISO 18563-1:2015 as optional.

* Specific functions are subject to final order.

Multiple Solutions for Welds

SyncScan 8

Suitable for Different Applications

- PA inspection on tube, forged piece, bar, casting, weld, composite material, railway and alloy steel.
- TOFD inspection on weld of plate, pipeline, tank and boiler.
- PA, TOFD and conventional ultrasonic testing in various industries such as transportation, petrochemical,

machinery, metallurgy, railway, shipbuilding, aircraft and building.

PAUT Solution for Austenitic Weld

With dual matrix array probe for inspecting austenitic weld in petrochemical and nuclear power industries.









PAUT & TOFD Solution for Long-distance Pipeline

For circumferential weld inspection on long-distance pipeline with OD 1000-1300mm (39.38-51.18 inch). 2 PAUT & PAUT+TOFD inspection for selection.









PAUT & TOFD Solution for Medium-to-large-diameter Pipe For circumferential weld inspection on medium & large pipes with

OD 100-1000mm (3.94-39.37 inch) and higher wall thickness. 2 PAUT & PAUT+TOFD inspection for selection.

PAUT or TOFD Solution for Small & Medium Tube Welds

medium tube with OD 100-300mm (3.94-11.81 inch).

2 PA or TOFD inspection for selection.

With 16 or 32 elements low-profile PA probes, suitable for girth welds inspection on small tube with OD 20.32-114.3mm (0.84-4.5 inch) and





PAUT & TOFD Solution for Flat Weld





SyncScan 🛛

Multiple Solutions for Corrosion

PAUT Solution for Corrosion

With automatic 2-axis scanner CUS-01 for automated PA corrosion mapping on pipes with OD > 100mm (3.94 inch) and plate.



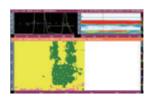




With scanner MPS-01A for PA immersion testing for corrosion on pipes with OD > 100mm(3.94 inch) and plate.







With scanner MPS-02 for PA corrosion mapping on pipes with $OD \ge 100 mm(3.94 inch)$ and plate in any direction in 2D space.



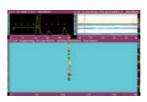




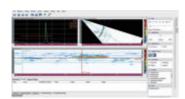
With dual linear array probe for detecting coarse-grained and composite materials with severe attenuation.











PAUT File Measurement

SuporUp PC Software

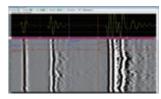
Checking data file, screen capture, measuring data analysis, playtback. generating test reports in word or excel format.

Several files from corrosion solution can be opened and combined. Abundant report samples are available.

It can be installed in every operator's laptop without extra cost.



Corrosion File Measurement



TOFD File Measurement

Technical Specification

	Conventional UT	Phased Array	TOFD
		System	
No. of Channel	2	32	
Probe Connector Max. Supporting	LEMO 00, 4 pcs	Тусо, 1 рс	LEMO 00, 4 pcs(same as UT)
Elements	4	128	4
PR (Pitch & Catch)			
Function		Available	
Pulser	Negative square	Bi-polar square	Negative square
	Adjustable 10-2000Hz	100Hz-10KHz	Adjustable 10-2000Hz
PRF	Step: 20Hz	Step: 100/200/500/1000Hz	Step: 20Hz
Pulse Voltage	50V~400V, min. step 1V	10-100V, step 10V/20V	50V~400V, min. step 1V
Pulse Energy	· · · ·	4 levels	
Pulse Width	30-1000ns, step:10ns	50-1000ns, step: 2.5ns	30-1000ns, step: 10ns
Damping	25/75/200/1000Ω,4 levels	`	25/75/200/1000Ω, 4 levels
Pulser Delay		0-20µs, resolution 5ns	
Pulser Focusing		Single point focusing	
		Receiver	
Gain	0-110dB, step:0.5/2/6/12dB	0-80dB, step:0.1/0.5/2/6/12dB	0-110dB, step: 0.5/2/6/12dB
Bandwidth	0.5-20MHz (-3dB)	0.7-20MHz (-3dB)	0.5-20MHz (-3dB)
\/D Sampling Rate	170MHz/12bit	100MHz/12bit	170MHz/12bit
Sampling Point	1024, 16bit/ point	Adjustable 256/512/1024, 16bit/point	1024, 16bit/point
Rectification	Positive/ Negative/ Full/ RF	Positive/ Negative/ Full/ Filter/ RF	RF
Receiver Delay	¥	0-20µs, resolution 2.5ns	
Receiver Focusing		Max. range: 1008 foci per scan line	
0		14 levels	
		Band-pass:	
	10 levels:	0.7-4/2.5-7/4-8.5/7-10/9-15/0.7-20MHz	16 levels:
Filter	1-4/0.5-10/2-20/	High-pass:	0.5-5/0.5-10/3.5-10/0.5-15/5-15/
	1/2.5/4/5/10/13/15MHz	HPF2.5/HPF4.0/HPF7.0/HPF9.0	0.5-20/1-4/0.5-10/2-20/1/2.5/4/5/10
		Low-pass:	13/15MHz
		LPF7.0/LPF8.5/LPF10.0/LPF15.0	
Reject	0-80%, step: 1%		
		Scan	
Scan Type	А	A/S/L/C/D	A/ TOFD
Trigger Mode		Time-based/encoder	Time-based/encoder
Scan Length		≪4m/scan	≤50m/scan, 0.5mm/step
Scall Lengui		(default parameter, step 0.5mm)	≪50m/scan, 0.5mm/step
Focal Laws		512	
i ocai Laws			
		-89°~+89°, step 1°	
Scan Angle Range	 		
Scan Angle Range Angle Spacing Line Average		-89°~+89°, step 1° 0.1°-5°, step 0.1° 	4 levels, 1/2/4/8
Scan Angle Range Angle Spacing Line Average		-89°~+89°, step 1°	4 levels, 1/2/4/8
Scan Angle Range Angle Spacing Line Average Focus Position		-89°~+89°, step 1° 0.1°-5°, step 0.1° 	4 levels, 1/2/4/8
Scan Angle Range Angle Spacing Line Average Focus Position		-89°~+89°, step 1° 0.1°-5°, step 0.1° 3-500mm, step: 1mm	 4 levels, 1/2/4/8
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode	 0-15000mm	-89°~+89°, step 1° 0.1°-5°, step 0.1° —— 3-500mm, step: 1mm Depth, Sound Path	 4 levels, 1/2/4/8 0-15000mm, min. step 0.1mm,
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode		-89°~+89°, step 1° 0.1°-5°, step 0.1° —— 3-500mm, step: 1mm Depth, Sound Path Basic	
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range		-89°~+89°, step 1° 0.1°-5°, step 0.1° —— 3-500mm, step: 1mm Depth, Sound Path Basic 0-1000mm, min. step 0.01mm,	0-15000mm, min. step 0.1mm,
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity	Min. display range 5mm	-89°~+89°, step 1° 0.1°-5°, step 0.1° 	0-15000mm, min. step 0.1mm, Min. display range 5mm
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay	Min. display range 5mm 500-15000m/s, min. step:1m/s	-89°~+89°, step 1° 0.1°-5°, step 0.1° 	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero	Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step: 0.01mm	-89°~+89°, step 1° 0.1°-5°, step 0.1° 	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero	Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step: 0.01mm 0-200us, min. step: 0.01us	-89°~+89°, step 1° 0.1°-5°, step 0.1° 	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank	Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step: 0.01mm 0-200us, min. step: 0.01us 0-100mm, step: 0.01mm	-89°~+89°, step 1° 0.1°-5°, step 0.1° 3-500mm, step: 1mm Depth, Sound Path Basic 0-1000mm, min. step 0.01mm, Min. display range 3mm 500-15000m/s, min. step:1m/s 0-1000mm, min. step: 0.01mm 	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank	Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step: 0.01mm 0-200us, min. step: 0.01us 0-100mm, step: 0.01mm DAC, AVG/ DGS, Angle calibration,	-89°~+89°, step 1° 0.1°-5°, step 0.1° 	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration,
Scan Angle Range Angle Spacing	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero),	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scan	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G Peak	-89°~+89°, step 1° 0.1°-5°, step 0.1° 	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, Angle	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference,	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/Da	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Fest Point Selection	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection Measurement	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors (active when optional B scan function is	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection Measurement Gate Mode	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors (active when optional B scan function is available.).	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection Measurement Gate Mode Gate Start	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors (active when optional B scan function is available.).Normal, Tracing	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors (active when optional B scan function is available.).Normal, Tracing Full range	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection Measurement Gate Mode Gate Start Gate Width	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors (active when optional B scan function is available.).Normal, TracingFull rangeFull range	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time Window, Probe Zero
Scan Angle Range Angle Spacing Line Average Focus Position Focal Mode Range Material Velocity Display Delay Probe Zero Probe Flank Wizard Calibration Test Point Selection Measurement Gate Mode Gate Start Gate Width	Min. display range 5mm500-15000m/s, min. step:1m/s-10-1000mm, min. step: 0.01mm0-200us, min. step: 0.01us0-100mm, step: 0.01mmDAC, AVG/ DGS, Angle calibration, Auto calibration (velocity, zero), Plate, weld, forging scanZero, Velocity, AnglePeak/ Flank/ J Flank/G Flank, G PeakThree gates: to measure echo amplitude, amplitude dB difference, sound path, Ra/DaCursor: two cursors to measure horizontal and vertical position of B scan and distance between cursors (active when optional B scan function is available.).Normal, TracingFull rangeFull range	-89°~+89°, step 1° 0.1°-5°, step 0.1°	0-15000mm, min. step 0.1mm, Min. display range 5mm 500-15000m/s, min. step:1m/s -10-1000mm, min. step 0.01mm 0-200us, min. step 0.01us 0-100mm, step 0.01mm Scan wizard, PCS Calculation, Probe Zero Calibration, Ultrasound Parameter, Time Window PCS, Wedge Delay, PCS/Depth, Time

Technical Specification

	Conventional UT	Phased Array	TOFD
		Measurement	
Curve Function	AVG/DGS DAC: Max. 6 lines & 16 points for each line	TCG & DAC: Max. 6 lines & 16 points for each line	
Auxiliary Function	Full screen, coordinates switch (sound path/ depth/ horizontal), auto gain (single/ continuous), second leg color, wave compare, gate expansion, wave filling, peak envelope, auto freeze, Cineloop, screenshot, CrackMeas, API 5UE, AWS, FFT, CSC, TCG, B-Scan, FlatWeldSim, BEA	Auto gain: Single/ Continuous Auto Search: Search the highest echo amplitude scan line within gate range in B scan.(available when in R view) Group function: max. 6 groups FlatWeldSim, C Scan In-Depth Probe Element Testing	
Alarm Signal	Signal&sound alarm: positive/ negative	Signal&sound alarm: positive/ negative	
Display Measure Value		8 positions can be user-defined.	
Data Analysis		Image mode switch, image gate dynamic reconstruction and report generation	LW/BW straightening/ removal, contrast adjust, gain adjust, zoom
		Testing Index	
Time Base Linearity	\leqslant 0.5%		
Vertical Linearity	\leqslant 3%		
Amplitude Linearity	$\leq \pm 2\%$		
Attenuator Precision	20dB±1dB		
Dynamic Range	≥32dB		
		Software	
SyncScan 2 Optional Software		PA Flat Weld Solution PA Angle Weld Solution PA Corrosion Solution PA Pipe Girth Weld Solution Simultaneous Display of PAUT and TOFD Software PA Long Pipe Solution PA Corner Joint Solution	SAFT 1-ch TOFD 2-ch TOFD
	Analysis Software (Standard)		1
SuporUp	PA Corrosion Software (Optional)		Two-ways Activation:
PC Analysis Software	PA Emulator Software (Optional)		•License
r C Allalysis Soltwale	Acquisition Software (Optional)		



General Technical Specification				
Display Screen	8.4" high brightness TFT LCD, 800×600 pixels			
Dimension (W×H×D)	284×220×105 (mm)			
Weight	4 kg with battery			
Battery	Lithium battery, 1 pc (0.55kg)			
Battery Capacity	7.5 Ah/pc, operation time around 4.5 hours			
External Power Supply for Adaptor	AC 100-240V 50Hz/60Hz			
Adaptor Output	15V DC			
Power	26VA for PAUT, 20VA for UT/TOFD			
Data Storage	Standard SD card (16G)			
Language	English/ German/ French/ Polish/ Czech/ Hungarian			
Input/Output				
USB Connector	2 pcs			
Ethernet Connector	1 pc			
Video Output	VGA port			
Encoder Connector	1 pc (14-core)			
Environment Tests				
Operation	-10℃-45℃			
Temperature				
Storage Temperature	-20°C-60°C			
IP Code	IP65			

SIUI

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