

TMPA600 Portable Phased Array Ultrasonic Flaw Detector



New
Generation
Of PATU
Instrument

- ★64 Channel Configuration
- ★State-of-the-art water- & oil -proof TG Touch Pad
- ★Anti-hit, omnisealed and fan free metal housing of low power consumption
- ★Full course recording, smart management of Double-Li-Battery with long life
- ★"Solution" trademark, independently self-made instruments and transducers, processes provider

"Dynamic Depth Focusing" On "Dynamic Depth Focusing" Off
Features:

16:64 configuration, maximum active aperture of 16 elements and maximum 64 elements available. T-R mode (twin PA probes) optional
Delay precision up to 1ns; evident inhibition on sidelobes as to promote vertical and horizontal discernibility, as well as to improve imaging definition.
Real-time A\I\S\C scan responsive imaging. Encoding or time-basing optional for continuous data recording, acquiring 100% original data.

Curve compensations like ACG and TCG are available prescribed by ASME, to tackle the problems caused by the uneven energy distribution during S-scan as well as measurement errors. The consistency of echo sensitivity is higher under ACG and TCG.

Omnisealed, water- & dust-proof but capable of fan-free heat-dissipation, upstanding against various adverse conditions.

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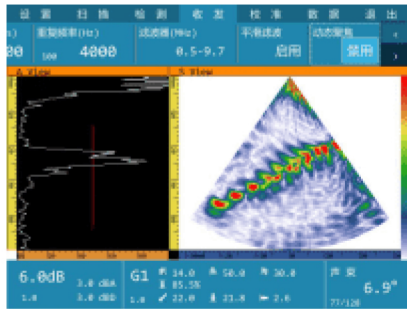
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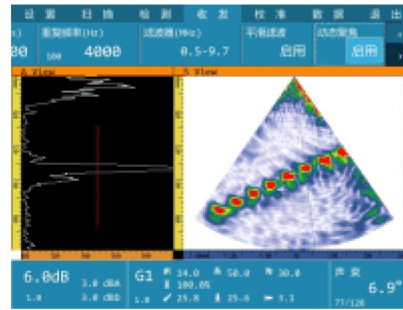
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“Dynamic Depth Focusing”On



“Dynamic Depth Focusing”Off

· Focal laws can be generated automatically soon according to angle, focal length, scan mode, parameters of probe and wedge, with auto-optimized stepping of S-scan.

Real-time dynamic focusing creates full uniformity, as the profound contributor to quality image.

55dB analog gain range and 35dB digital gain range; 3 options of filtering: 0.5-9.7MHZ, 4.0-12.5MHZ, and 6.7-20.8MHZ. Auto-optimization of pulse width according to probe frequency, excellent noise processing. Image smoothing, enhancement of image quality.

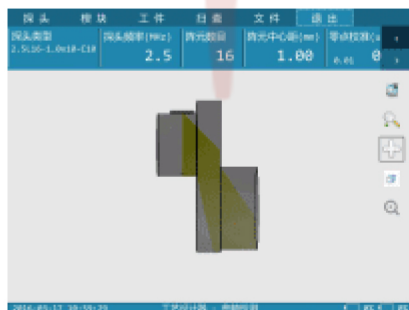
11-inch, TG and full WVGA resolution (800×600) TFT display, best feed outdoors or under strong light.

State-of-the-art water & oil -proof TG capacitive screen, for touching control, sensational experience!

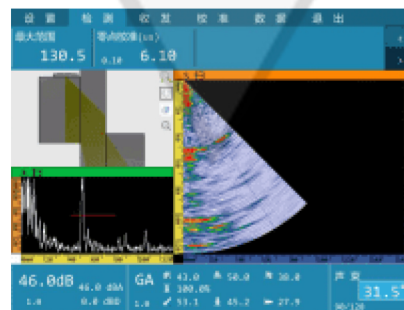
Massive storage for A\L\S\C scan images, and reports concomitant

USB port for quick data transferring; HDMI port for grafting display with unlimited size

AC\DC optional, allowing 2 batteries engaged as co-powersuppliers and engagement takes shifts automatically according to power allowance, guaranting 6+ hrs of nonstop working.



Exclusive 3D modeling



Use of model

Functionality	PA Mode	PE Mode
PRF	50Hz-10KHz	25Hz-10KHz

Voltage	Bipolar ±45V -±100V, step: 5V	25V -350V, step: 25V
Pulse Width	20ns – 800ns, step: 5ns	30ns – 1000ns, step: 5ns
Damping	50 Ohm	80\400 Ohm
Sampling Rate	100MHz	200MHz
Delay Precision	1ns	N/A
Reception Delay Available	0.0 ~ 90dB	0.0 ~ 110.0dB
Filter	Auto	Digital Filtering
Rectification	PW, NW, FW, RF, Smooth-up	PW, NW,FW,RF
Rejection	0 -80%	0 – 80%
Scan Modes	L\S\C	A
TriggeringScan linesAngle	Time-based\Encoder128L\S-scan: -85°-+85°	N/AN/AN/A
Functionality	PA Mode	PE Mode
Calibration Modes	Velocity\TCG\ACG	Velocity\Probe Delay
Display Reachable	0.0 ~ 1000mm, Min. 1mm	0.0~2000mm(Steel LW); Min Step:0.1mm
Display Delay Availability	1000mm	2000mm
Display Shift Range	N/A	2000mm
Unit	mm	mm
Gate	A; B	A; B
Gate Start	Full reachable range	Full reachable range
Gate Height	5~95%	5~95%
Alarm Modes	Sound & Light	Sound & Light
Spotting Modes	Peak\Flank	Peak\Flank
Readout	Amplitude; beam path; data of processed image	Amplitude; beam path
Discernibility	0.5mm	0.1mm


DAC\TCG	Max 20 joints; dynamic range 40dB	Custom, max 3 threads
ACG	Available	N/A
AVG	N/A	Standard

Applications

- Conventional Inspection on Welded-seams (WS)
- Inspection on Al Alloy FSW seams
- Inspection on Welded-seams of Rail
- Inspection on Axles and Wheelsets of Railway Vehicle
- Inspection on Bolts
- Inspection with Restricted Movement like on Blade Roots
- Inspection on Butts of Tethylene Tube
- C-scan on Composites
- Field measurement

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