

Go Beyond The Limits

DEEPSOUND P5 Phased Array Ultrasound Testing



Product Description



The knowledge and experience we have accumulated from developing various UT devices have allowed us to create an incredibly versatile and portable PAUT device.

DEEPSOUND P5 features a wide, easy-to-use, glove-compatible 12.1" LCD touch display.

Furthermore, we have implemented numerous design suggestions and requests made by PAUT technicians, making the P5 incredibly comfortable and easy to operate in any environment.







RIGHT PORTS

Total Focusing Method(TFM)



*TFM / FMC Program Separate purchase required

Faster TFM & High Quality TFM

DEEPSOUND P5 Equipment TFM / FMC imaging and advanced visualization capabilities, backed by its high image quality enable you to complete your inspection with greater confidence.

TFM / FMC Raw Data Export

We can export TFM / FMC data from the equipment, and we can help you use the data for research and development.

Operation Speed





RESPONSIVE



POWERFUL PROCESSING



FAST DATA COLLECTION

Instantaneous Operation Speed and Max 30k PRF Value

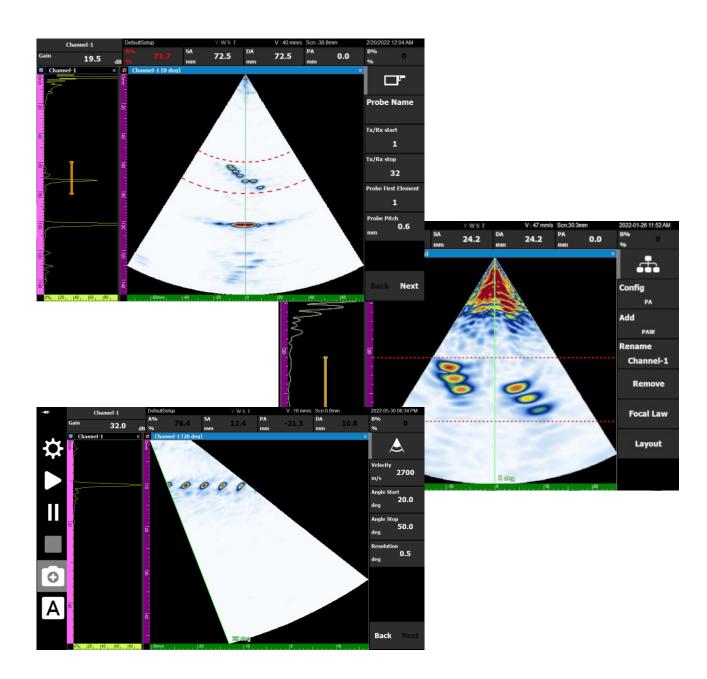
Maximize efficiency with the P5's incredible operation speed, unlike other typical NDT devices.

Experience PAVision's enhanced hardware features such as depth control, PRF, and focal law angle change paired with increased processing speeds.

Furthermore. DEEPSOUND devices support PRF values up to 30kHz by default.

Run PAVision with an encoder to clearly observe the significant difference in data collection speed.

Axial Resolution

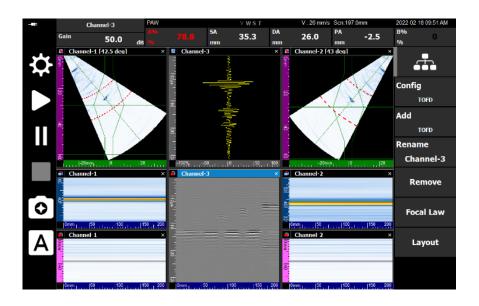


Difference in Beam Focusing

Clearly differentiable/high resolution/high image quality. Unlike other typical NDT instruments, PAVision demonstrates visible differences in beam focusing of detected flaws. The high-resolution images it generates allow users to clearly differentiate between even the smallest groups of adjacent defects.

With high-quality images paired with the option to inspect with different scan types (sectorial/linear), PAVision is a powerful and versatile tool that will be suitable for any task at hand.

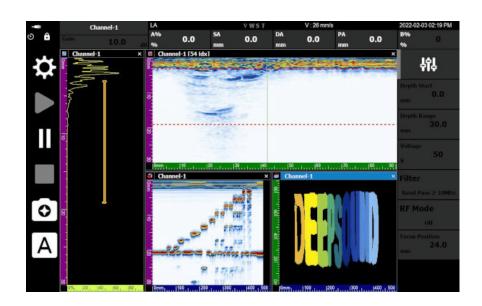
Additional Features



Utilizing Channel Groups

PAVision supports customizable Channel Groups.

The program also includes TOFD, enabling users to create various configurations, including the PAUT + TOFD configuration.



Thickness Measurement

PAVision is capable of detecting differences in corrosion thickness.

These differences, which are distinguished by color, allow for intuitive evaluation, and the inspected data can be further examined by using DEEPSOUND's analysis program DSViewer.

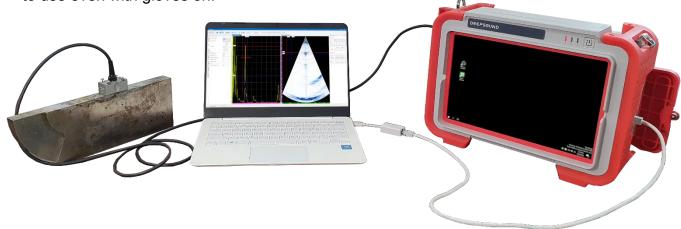
Additional Features



12.1" Wide Display

DEEPSOUND P5 features a 12.1" display.

The wide display size is comfortable to look at, reduces strain on the eyes, and the responsive pressure-sensitive touch screen makes it easy to use even with gloves on.



*Remote Program DSVision Separate purchase required

Remote Connection

The DEEPSOUND P5's Remote feature allows users to run inspection programs on their desktops or laptops via the LAN port.

Take advantage of this feature depending on the work environment or when performing CPU-intensive tasks that demand higher performance.

Specifications

General	
Dimensions(WxHxD)	340 x 257 x 147mm
Weight (With 3 x batteries)	5.9Kg
Power Supply	12V, 5A
Batteries	Li-ion, 48 Wh capacity (x3)
Operation Time	Up to 5 hours
Display	12.1" Wide Monitor 1280 x 800
Storage	64GB, expandable

Connectivity	
Ethernet	Fast Gigabit
HDMI	x1
USB Port	USB 2.0 x1
Probe Port	IPEX PA Connector x1
UT Port	Lemo 00 UT Connector x4
Encoder Port	2-axis Encoder input

Environmental	
Operating Temperature	0 – 60°C
Storage Temperature Range	-20 − 80°C

Specifications

PA/UT Configuration	
Effective Digitizing	100MHz
Max PRF	30kHz
Refresh Rate	30Hz
A-scan Height	300%

Phased-Array Phased-Array	
PAUT Channel Configurations	32:128PR
Scan Type	Linear, Sectorial, Conventional, TOFD
Focal Law	Unlimited
Channel Group	Up to 8
Focusing Mode	True-depth, Sound path

Data Specifications	
Maximum Number of A-scan Data Point	Up to 16384
Rectification	RF, Full wave
Filtering	Selection of Low-pass, Band-pass, High-pass
Video Filtering	Smoothing
TFM Raw Data Export	Yes

Specifications

Acoustic Specifications		
Pulser	Voltage	25V ~ 160V (5V Step)
	Pulse Shape	Bipolar Pulse
	Pulse Width	50nsec ~ 2,000nsec
Receiver	Gain Range	0dB ~ 90dB
	Band Width	0.5 ~ 20MHz
	Sample Resolution	16bit
	Dynamic Sample Focusing	Yes



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