



EXPLORER:

IP65/IP68 PAUT & Advanced TFM Solution



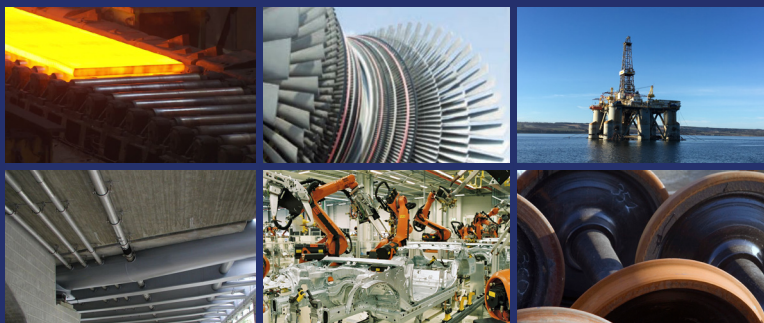
Explorer VR 64/128



Explorer 64/128



Explorer 64/256

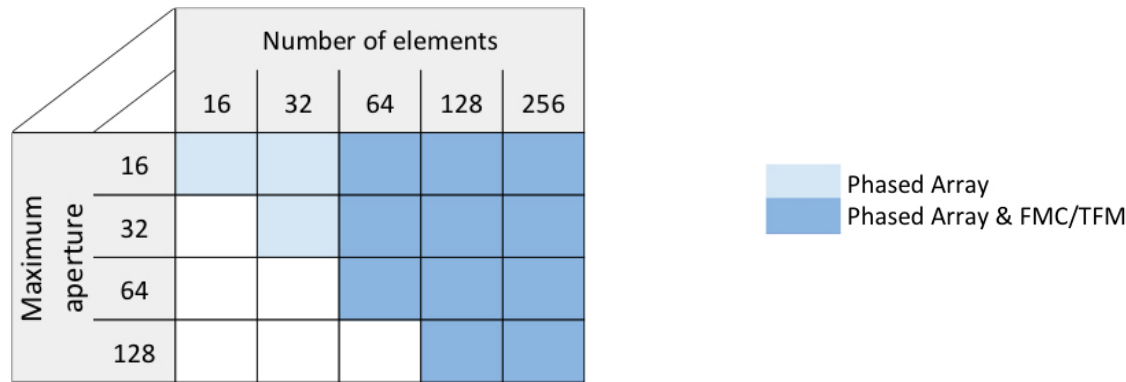


The Explorer line offers the most advanced, compact, rugged ultrasonic device on the market

About Explorer

The Explorer line is a comprehensive Standard PA, Advanced PA and/or Advanced TFM solution that meets the requirements of your most demanding needs. The solution allows:


- Extensive Hardware Possibilities:** flexible, powerful and scalable acquisition units




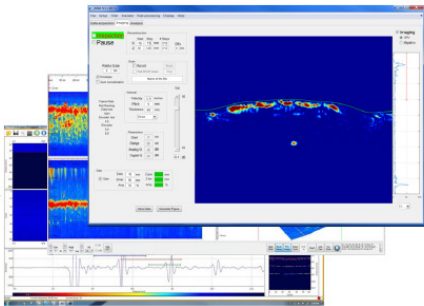
- Extensive Software Possibilities:** in terms of Advanced Phased Array and Advanced TFM and Analysis tools

Instrument:

- Explorer







Software:

- Concerto
- Prelude
- ARIA

High Speed



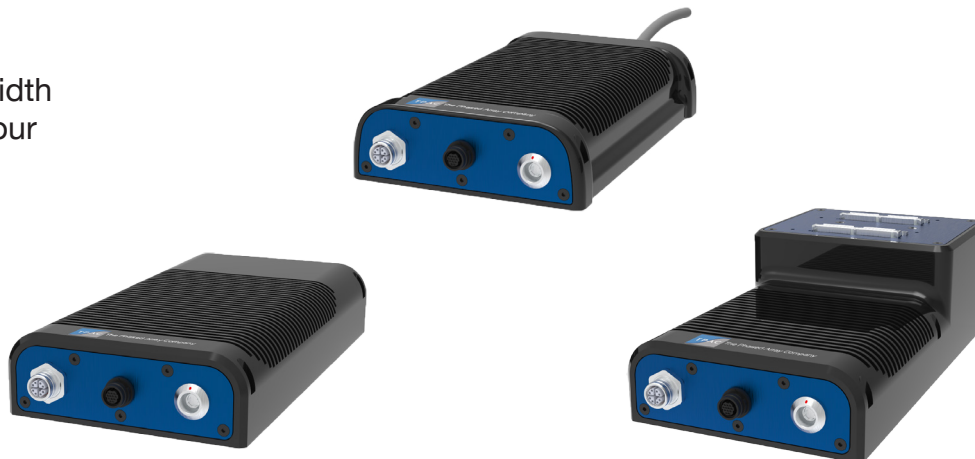
The Explorer line provides high data throughput for your most challenging and demanding inspections.

**From 100 MB/s
To 200 MB/s***

High Bandwidth

Explorer gives you high bandwidth which significantly increases your Inspection capabilities!

From 50 kHz To 20 MHz



High Performance and Rugged

Explorer is designed to perform any environment. Whether you are a researcher or developing an application, Explorer provides cutting edge, advanced technology for any environment or setting.



Explorer (R) Rated

IP65

Explorer (VR) Rated

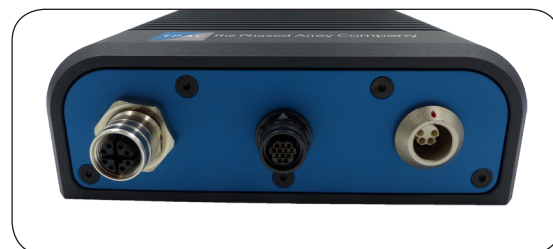
IP68

Easy Integration

With its compact form factor, IP65 or IP68 rating and easy mounting capability, Explorer is perfect for integrating into automated inspection systems, scanners or robots.



Dual probe connectors for 64/256 and 64/64 TT versions

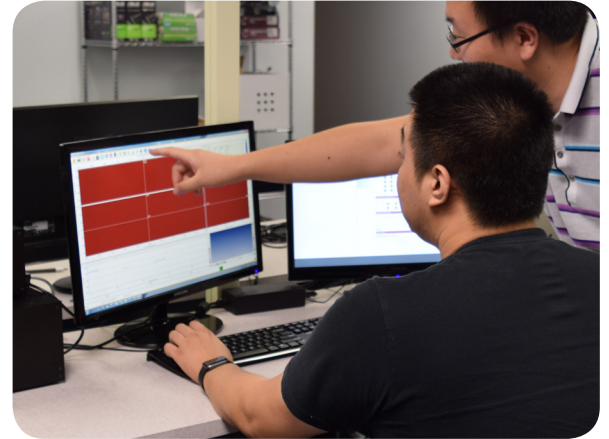


Software for Any Application:

Having created friendly and efficient Ultrasonic Software for customers unique demands for over two decades, our skilled specialists know your needs and understand your specified requirements.

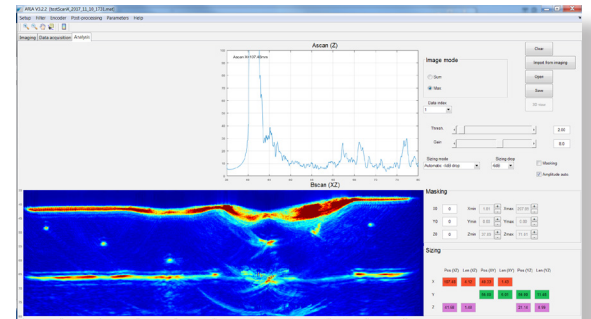
Our team are experts in:

- ◊ Laboratory software with complex imagery (A-scan, B-scan, C-scan, D-scan, ...) and specific algorithms
- ◊ Field software using scanners or specific tools
- ◊ Inline software for various industries



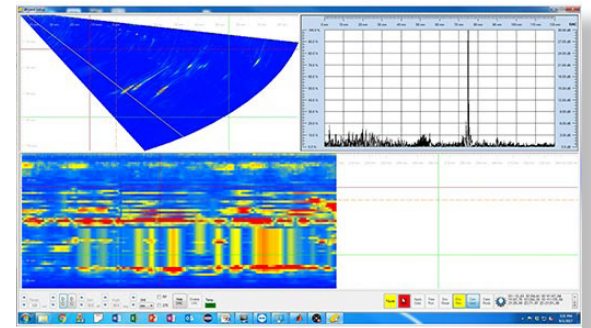
ARIA: Advanced TFM Software

ARIA is an extensive software platform originally developed by TPAC for R&D, academia, and laboratory environments. However, all users have benefited from ARIA regardless of its deployment.



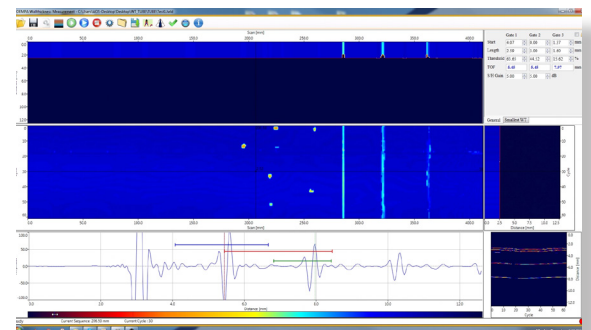
Prelude: Phased Array Acquisition and Analysis

Prelude is a powerful and flexible software package. At TPAC, we understand our customers have a heavy investment in scanning equipment. With this in mind, we have developed a software suite that is adaptable and complimentary to your existing devices.



Concerto: Corrosion Mapping Software

Concerto is a UT acquisition and analysis software specially designed for Phased Array corrosion mapping. For the tough field conditions that operators deal with Concerto features no menu, less than 18 icons, and few controls so that operators can easily work and not be bothered by complex GUIs.

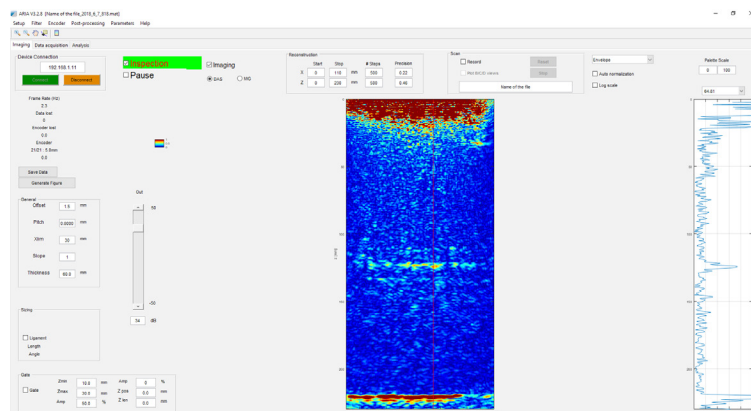


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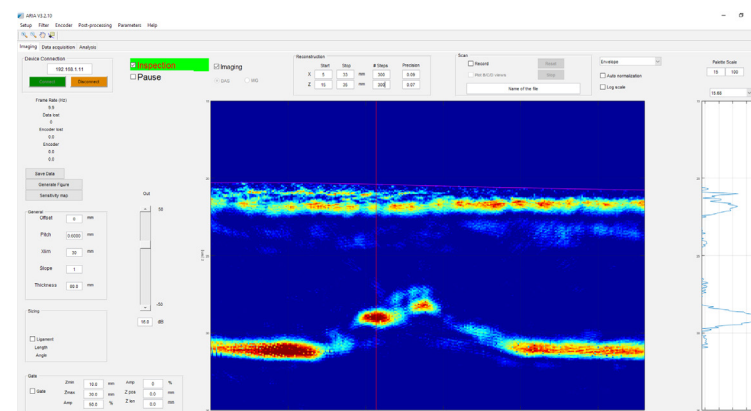
Wide Range of Market Applications

Solving your ultrasonic applications requires flexible electronic solutions, which are adaptable to complex and demanding requirements. Explorer provides high performance hardware and comprehensive software solution that can configure to any of your inspection application needs.

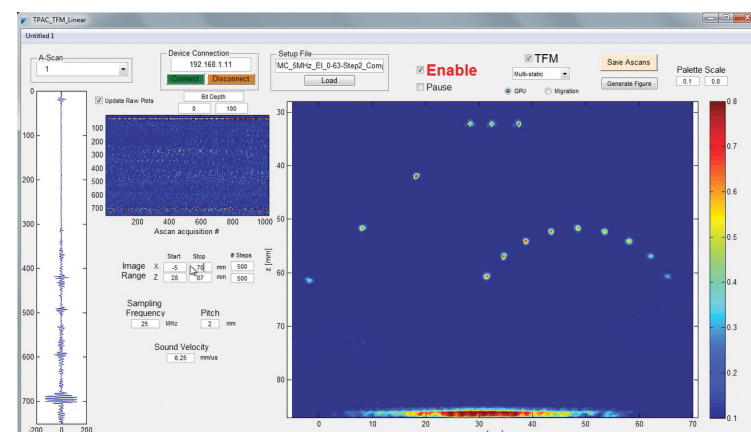
Characterization of carbon steel structure with detection of Carbon segregation.
User friendly interface allowing quick and reliable results



Pitting corrosion detection in Adaptive Technique.
High Bandwidth associated to fast kernel allowing fields inspection.



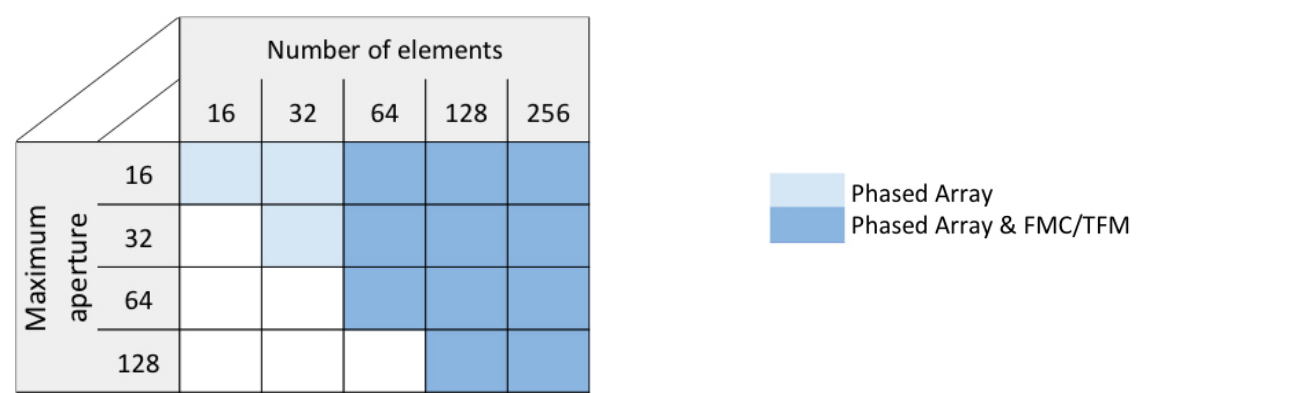
Open platform available for developers.



Explorer Key Features

Dimensions	L x W x H:
High Data Throughput:	From 100 MB/s to 200 MB/s
High Bandwidth:	From 50 kHz to 20 MHz
Gain Range Dynamic:	16~110 dB
High PRF:	20 kHz (30 kHz In option)
Digitizer	14 bits
I/O:	2 Encoders/Pulse Trig/Sequence Trig/ ...
Probe:	Linear, Matrix, DLA, DMA, Annular, Daisy and Custom
Phased Array Techniques	Linear, Sectorial, Parallel, DDF or Zone Focusing
Extensive TFM Techniques:	SAFT, TFM, Advanced TFM (PWI, XWI, ...), Adaptive and multiple modes (L or S)

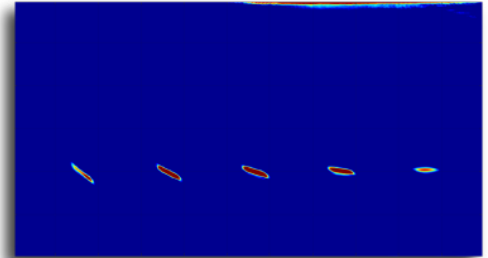
Explorer Product Range



Why Choose TPAC?

TPAC is a Company Dedicated to Facilitating Your NDT Projects. Building on Years of Advanced Phased Array UT (PAUT) Experience Our Team Can:

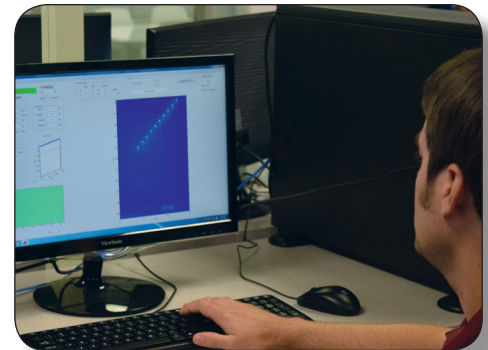
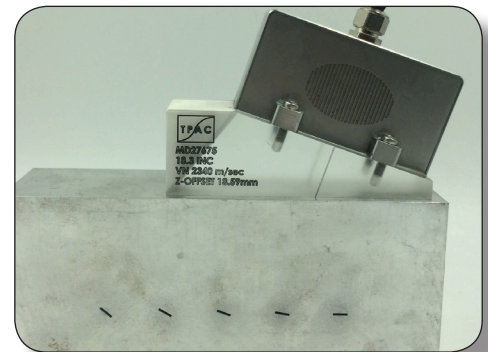
- Support you in your NDT Project from A to Z or only in areas you find necessary
- Customize hardware and software solutions
- Define the best solution for your application based on standard technologies (e.g. PAUT), or more advanced techniques (e.g. FMC/TFM, etc.)



Expertise

With over 25 years of collaboration with various industries, the TPAC team has been able to create and to participate in the creation of friendly and efficient ultrasonic software to meet customers' unique demands. Our skilled specialists know your needs and understand your specified requirements.

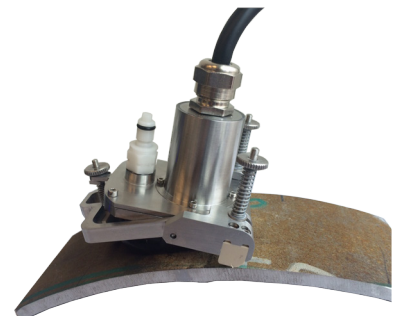
- Customize TFM software to fit your application
- Analyze FMC data
- Help you design the best PA probe for TFM
- Feasibility Study:
 - ◊ Scan your parts so you can see the benefit of TFM



Customer Support:

Aware of the difficulties of finding suitable, cost effective electronics, the TPAC team proposes custom solutions based on modular electronics. We have performed various, customized customer applications in terms of:

- Enclosure design
- Thermal shell
- Power consumption
- IP rating
- UT electronics mixed





TPAC

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