



UNIQUE  
IN NDT



Global specialist in Ultrasonic  
NDT solutions





Fit to needs



Fit to Budget



Expertise



Performance

## Why UNIQUE?

TPAC provides **standard** packages, as well as **customized solutions** supported by the **world's largest UT engineering team**.

TPAC is a **committed and passionate** team of **experts spread** worldwide, speaking your language.

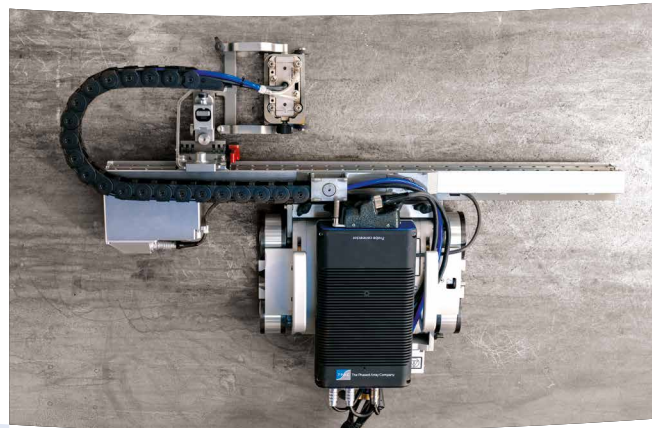
TPAC is **by your side** through each step of the way to create the **best solution**, connected with a **large partners network**.

**At TPAC, it's not just about technology, it's a partnership for YOUR inspection success!**



# Offering you the right solution is our mission at TPAC!

From the most standard to the most complex NDT Ultrasonic applications, we will build the most adapted offer based on your needs and your budget.



## In all industries

-  Oil & gas
-  Robotics
-  Aerospace
-  Power generation
-  Heavy industries
-  Rail
-  Automotive

## For all applications

- Weld inspection
- Corrosion mapping
- Composite
- Robotic integration
- Inline
- Research

## Standard and advanced UT technologies

- Conventional Multi-channel
- Phased Array
- FMC/PWI/TFM
- PCI (Phase Coherence Imaging)
- Adaptive methods (ATFM/APWI)
- AWG
- Air coupled
- Ultra-high dynamic range

# Our main hardware

More about our electronics



## Pilot line

### Multi-Channel

**Pilot, Pilot Multi** and **Pilot+** are **powerful** and **unique** in their capacity to meet the most demanding needs of various industries from **aeronautics, in-line** as well as **TOFD** and many other applications.

**From 8 to 64 channels**

**Pilot product line** has an acquired dynamic up to **162 dB**.



Composite, Honeycomb, In-line



## Explorer line

### Phased Array & FMC/TFM, PWI, PCI (speed over 500mm/s)

The **most advanced** ultrasonic device on the market.

Explorer gives you high-performance technology that fits right in the palm of your hand.

**From 16 to 256 channels**

Its compact design is perfect for mounting on scanners and handles extreme environments.



Weld Inspection, Scanners, Robots, Immersion Tanks, Corrosion mapping



## Pioneer

### All in one Phased Array & FMC/TFM

(including single element multi-channels)

Pioneer provides cutting-edge technology for any setting from **manufacturing, research** to **developing an application**. All in one and multi-technologies instrument : Multi-channel, PA, FMC/TFM, PWI...

**From 64 to even beyond 1024 parallel channels.**

It supports Linear, Matrix and Custom Arrays.

All come with Software suite, and a **High-level API** and **super high-speed from 1 up to 16GB/s Data Throughput!**



Manufacturing, Laboratory, R&D equipment



# Our main software

More about our software portfolio



## Prelude



**Weld inspection and general purpose**

**Prelude** offers the **best featured** and **easy-to-use weld inspection** with **TOFD** as well as **Phased Array**. However, **Prelude** offers much more by providing **Ultra-fast FMC/TFM/PWI/PCI** and many more.

**Adaptive TFM** processes embedded into **Prelude** in **real-time** even allow **on-bid** inspection.

**Speeds** up to 500 mm/s at 1mm step

## Concerto

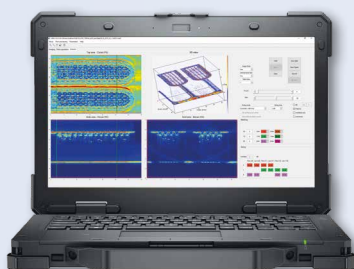


**Thickness measurement and corrosion mapping**

**Concerto** is a Wall-thickness multi-technology software. **Multi-channels, Phased Array, PWI**, and even **Adaptive PWI** provide the ability to adapt to any situation.

**Speed up to 500 mm/s** with **up to 1 m width** inspection at once is unmatched so far on the market. The ability to post-process all Ascan/Volume permits the best analysis securing the validity of the acquisition.

**User-friendly solution**, perfect for **corrosion** and **composite** inspection.



## Aria



**R&D, academia and laboratory**

**ARIA** is the **most fully featured FMC/TFM** software on the market.

This **open-format** software can explore all TFM-based reconstruction technologies such as: SAFT, TFM, PWI, PCI and more, including **adaptive** and **non linear acoustics**



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