We DEVELOP


TESTIA
AN AIRBUS COMPANY

# UE1 Box

## Ultra-compact, customizable and integrable device for multi-methods inspection and reporting

UT, ET with Rotor, and/or Resonance inspection methods at the same workstation from test bench up to production line applications

## Benefits

### Efficiency

- Wide range of applications with this all-in-one box
- Agile decision making with real-time data stream
- Analysis automation possible via NDTkit UT
- Rapid data positioning during acquisition thanks to encoder capabilities
- Intuitive software suite ready to use with dedicated SDK package
- Get comprehensive documentation and support

### Reliability

- Designed for aerospace requirements, customizable for any industrial needs thanks to its compliance to EN ISO 22232-1 & EN ISO 15548-1
- Proven capabilities on many automatic & robotized machines in use

### Ergonomic

- Easily integrable with its rugged packaging
- Light-weight and small device
- Fanless with waterproof connectors

### Flexibility

- Versatile performance with this 3 methods device (UT, ET & Resonance)
- Simple data visualization thanks to its exportable and editable datafiles (MS Excel, NDTkit, etc.)
- Tailor your UT and/or ET acquisition software to your needs via dedicated SDK
- Complete set of inspection methods:
  - UT: flaw detector, 'Go/No-Go' or thickness gauge with grid mapping; pulse-echo or transmission (pitch/catch); 2D mapping or 3D mapping
  - ET: flaw detector, 'Go/No-Go', conductivity or coating measurements; absolute, differential, bridge, rotary modes
- Compatible with any PC or tablet with MS Windows
- Compatible with standard scanners like Testia Smart Scan, crawlers or complex robots

### Traceability

- Full signals recording & reporting generation

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## Features

- Ultra compact architecture
- USB plug and play device
- 3 methods in one device (UT, ET & Resonance)
- Built-in Rototest capability
- Rapid data referencing during acquisition thanks to its encoder capabilities (up to 4)
- UT and/or ET SDK (Software Development Kit)
- Analysis automation via NDTkit UT
- Automatic reporting generation
- Digital continuity brick between acquisition and reporting
- Dual power supply (USB or Main) for rapid switch from test bench up to production line applications

## Technical specifications

| |
|---|
| Dimensions: 169 mm × 130 mm × 52 mm |
| Weight: 1 Kg (battery included) |
| Connectors :<br>- Power supply: Main or USB<br>- Transfer of settings and data: USB<br>- Ultrasonic transducers: Lemo 00<br>- Eddy current probes: Fischer 16 pins<br>- Position encoder 4 inputs via Fischer 12 pins<br>- Analog signal output: none<br>- Power supply: 100-240 V AC 50/60 Hz 1.6–0.9 A or USB |
| IP level: 65 |
| Temperature range: -10 °C to 45 °C |
| Software: runs on Windows 7; 8.1; 10 |
| LabView based SDK package |
| Conformity with standards EN ISO 22232-1 and EN ISO 15548-1 + CE marking |

## Extras

The UE1Box can be proposed with several accessories (transducers, cables, calibration blocks, scanners) & related products (SmartScan, NDTkit, RemoteAssistance, …)


**Materials:**
All

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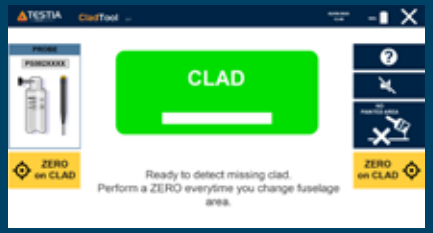
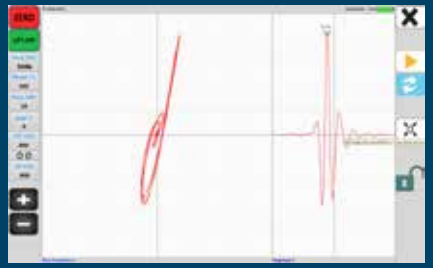
## SMART UE1 & UE1 BOX SOFTWARE

### CladTool




### Coating Thickness


### ET (inc. rototest)



### Conductivity


### UT

### Resonance

### Galvanometer


### Thickness Gauge

## & YOUR SOFTWARE, BASED ON THE SDK

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