

# ETHER NDE



Eddy Current NDT Flaw Detectors  
Eddy Current NDT for Automatic Inspection  
ECT Conductivity Meters  
Bond Testing & Eddy Current combined  
Pulsed Eddy Current solutions  
Aircraft Wheel inspection systems  
MFL Tube Inspection  
ECT Probes & Weld Probes (inc. High Temperature)  
Eddy Current Rotary Drives  
Bespoke Eddy Current Design  
EC Accessories & Test Blocks

***“Everything Eddy Current”***

**[www.ethernde.com](http://www.ethernde.com)**

## WELDCHECK 2

### Eddy Current Flaw Detector



Designed to meet & exceed the requirements of EN 1711 & ISO 17643 "Eddy Current Examination of Welds by Complex Phase Analysis".

Advanced features: Loop, Guides & Automatic Lift-Off Gain Correction.

User-friendly interface and ergonomic lightweight design. Large, crisp, daylight readable display.

Over 8.5 hours+ battery life & rapid 2.5 hours charging time.

Tough aluminium alloy Mg Si 0.5 powder-coated outer case.

2 year warranty.

## WELDCHECK +

### Dual Frequency EC Flaw Detector

Conduct coating thickness & defect detection simultaneously.

Conductivity measurement.

Lift-Off Gain Compensation as standard (LOGC).

Auto-Mix feature.

Live Loop-Function.



## SIGMACHECK 2

### Eddy Current Conductivity Meter.



Extremely easy to use making it suitable for use by shop inspectors or engineers.

Lightweight, rugged instrument built for harsh environments, including rubber boot.

Meets conductivity measurement requirements for Aircraft manufacture & maintenance for the verification of proper alloy/temper or to detect heat damaged components.

Standard operating frequency of 60 kHz, auxiliary frequencies of: 120, 240, 480.

2 year warranty.

## AEROCHECK Series Eddy Current Flaw Detector



### AEROCHECK +

Dual frequency with Auto-mix.\*

Conductivity measurement option.\*

Frequency range 20Hz to 12.8 MHz

Rotary drive capabilities as standard.

Large, crisp daylight readable display.

Lightweight 1.2kg (2.6 lbs.)

Rugged housing & excellent battery life.

Upload on-board step-by-step guides.

Innovative Live Loop feature.

Up to 10 hrs battery life with a pencil probe and 7 hrs with a rotary drive.

## ETHERCHECK

### Combined Eddy Current & Bond Testing

Dual Frequency

Pitch-Catch bond testing mode.

Industry standard probe connectors.

Large crisp daylight readable LCD display. User friendly interface.

Innovative "Loop", "Guides" & "Trace" features.

Up to 10hrs battery life with a pencil probe, 7hrs battery life with a rotary drive.



## VEESCAN Aircraft Wheel Inspection System



Flexible set up with automatic wheel adaptation and direction of test.

Rapid inspection through a controlled inspection helix.

Intuitive "Teach & Learn" PC user interface. Simple reporting via a one page PDF report.

Ease of service with in-built & remote diagnostics, widely available standard components.

Control panel can be a remote stand alone unit or pivot arm option.

# Pulsed Eddy Current PECT

Maxwell NDT

Compact magnetic field, increased defect sensitivity.

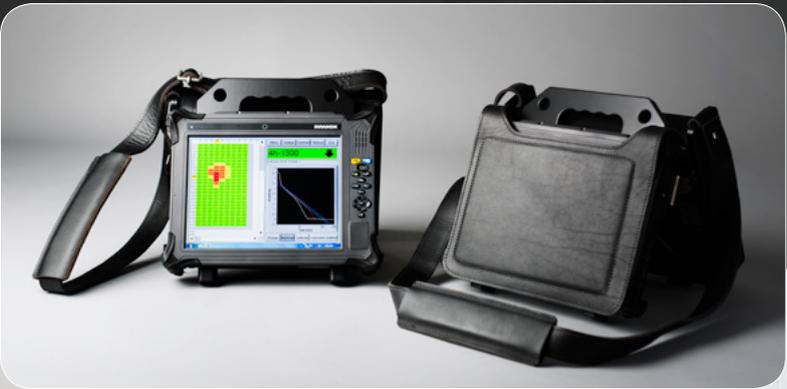
Measures through 50mm wall thickness & up to 254mm lift-off.

Extremely robust design, intuitive user interface, fast data-recording.

High current NiMH batteries (hot swappable) combined with a high power pulse, due to large conductor diameter cabling.

Standard probes included in standard kit sizes range from small, medium, large and extra large; each optimised for a specific lift-off range.

Inclusive pricing, no annual software fees, multiple user licence for analysis software available free of charge.



## APPLICATIONS

Corrosion under insulation on vessels & piping.

Corrosion under fire proofing of supporting legs of storage spheres.

Inspection of column skirts.

Flow accelerated corrosion (nuclear power plants).

Splash zone of offshore structures and risers.

Port structures, subsea pipelines, well casings.

## ETHERCOVER

**Add ETHERCOVER Extended Warranty  
for 5 years easy ownership.**

No calibration charges.

Fast turn around.

Free annual health check.

Free software updates.

Two free battery swaps.

# TUBE INSPECTION SOLUTIONS

## STEELCHECK

### Compact 3 Channel Flux Leakage System



Ideal for Ferrous Tubing Inspection, especially Fin-Fan tubes.

Internal data logging system with desktop reporting capability.

Compact, rugged site proven enclosure.

Easy to learn user interface.

Daylight readable display.

8 hours battery life.

2 year warranty

## ETi- 200

### Advanced Eddy Current Flaw Detector



Multi-Frequency & Multi-Channel flaw detection in the smallest portable EC package on the market.

17.5 cm (7") 800 x 480 pixel TFT colour display.

Single probe - multiplex eight channels.

With two probes connected the ETi-200 allows any mix of eight channels across two probes.

Weighs only 2.8kg (6.2 lbs)

## Iris 9000 Plus

### Real-Time C-Scanning



Next generation performance with inspection speeds up to 5 times as fast.

This state-of -the-art portable instrument has more than 30 years of field inspection experience incorporated in its design.

Advanced inspection reporting software.

Heat Exchanger inspection, Fin-Fan Air Coolers, Boilers, Condensers and Chillers.

# AUTOMATED EDDY CURRENT SOLUTIONS

## ViCTOR 2.2D

### Eddy Current Flaw Detector for Automated Inspections



Cost effective solutions for component inspection e.g. Bearings, Gudgeon Pins, Cylinder Liners.

Ideally suited to inspection automation, particularly rotationally symmetric components.

High speed capability (up to 200 ms<sup>-1</sup>).

Instant coupling.

Non-contact, no couplant required.

No effluent produced.

Good for surface defect detection.

Wide variety & geometry of probes available.

## EmBed EC

### Embedded Eddy Current NDT solutions



Ideal for integrating Eddy Current into an automated system, providing solutions for a variety of applications.

Single Channel. Available as a printed circuit board or in an enclosure with a USB connector and analogue outputs.

Small footprint.

Dual analogue outputs on SPI Card version.

Data streaming over SPI/USB.

#### Applications include:

Surface breaking defects.

Sub-surface defects in non-ferrous materials.

Heat Treatment & Material Property Verification e.g. the presence of threads, butt weld detection.

Distributed by: