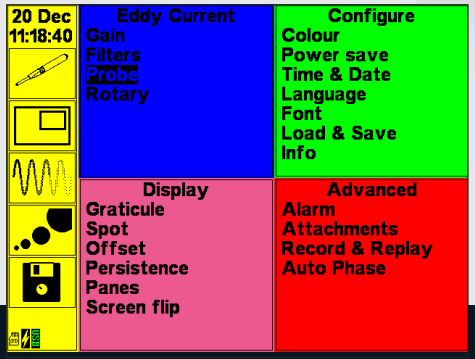
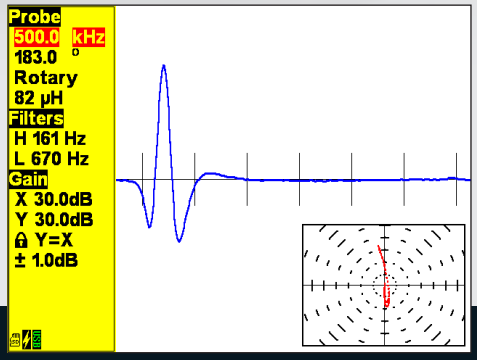
EDDY CURRENT FLAW DETECTOR

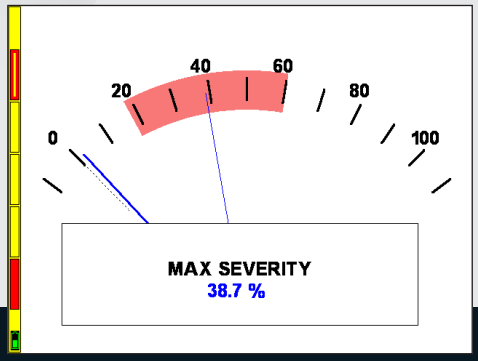
AeroCheck



All menus are visible and grouped depending on their function



Useful menu items accessible with just a press of the RIGHT key



Meter display with alarm box being used to detect and evaluate defects.

- **Rotary Capabilities As Standard**
- **Industry Standard Probe Connectors**
- **Large, Crisp Daylight Readable Display**
- **Great Eddy Current Performance**
- **User Friendly Interface**
- **Up To 10 Hours Battery Life With A Pencil Probe**
- **Up To 7 Hours Battery Life With A Rotary Drive**

ETHER NDE

AeroCheck

EXCELLENT FREQUENCY RANGE

The AeroCheck, with a frequency range of 20Hz to 20MHz, has the ability to work with a wide range of eddy current probes meeting all the needs of the Aerospace Eddy Current Inspector.

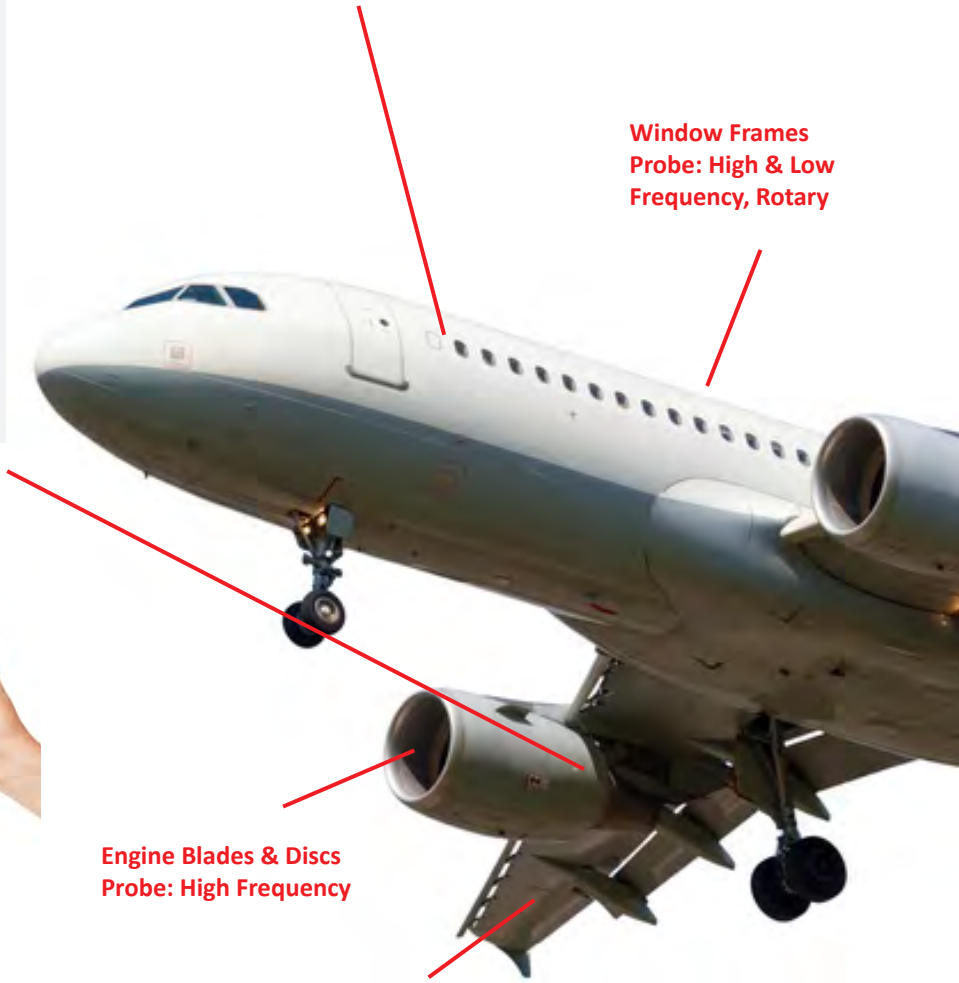
Area of Inspection: Fasteners
Probe: Low Frequency, Slider

WORKS THE WAY YOU DO!

The AeroCheck has been created with user convenience and efficiency in mind at all stages of the design and manufacturing process. One key benefit of the AeroCheck is the ability to work identically in left and right-handed mode; thanks to the incredible "Flip" function.

When the operator is inspecting in a restricted area like the Engine Mounts, it is important that their flaw detector works in harmony with them.

Area of Inspection: Engine Mounts
Probe: Surface



INDUSTRY STANDARD PROBE CONNECTORS

The AeroCheck is able to use absolute, bridge and reflection connected probes using the industry standard 12 Way LEMO Connector and LEMO 00 Connector for absolute probes.

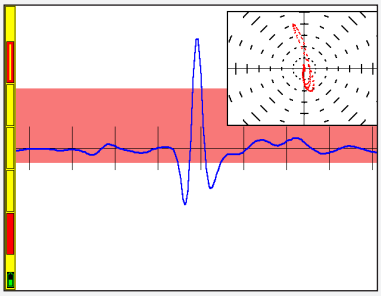
Area of Inspection: Wing Surface & Hinges
Probe: High & Low Frequency

LIGHTWEIGHT, RUGGED AND "SURE GRIP"

Weighing just 1.2kg (2.6lbs), housed in a tough aluminium alloy Mg Si 0.5 powder-coated outer case and fitted with rubber feet to aid grip, the AeroCheck is as stable on a wing of an aircraft as it is on a laboratory bench.

Furthermore, with built in, moulded "Sure Grip" handles on each side of the instrument, the AeroCheck can be held for a long period of time without the operator experiencing fatigue.

The strong rear foot stand also offers an extra mode of operation.



ROTARY CAPABILITIES AS STANDARD

The AEROCHECK includes rotary capabilities as standard and can be used with the EThер Mercury (mini) ARD002, Hocking 33A100 or the Rohmann MR3 Drive with an adapter.

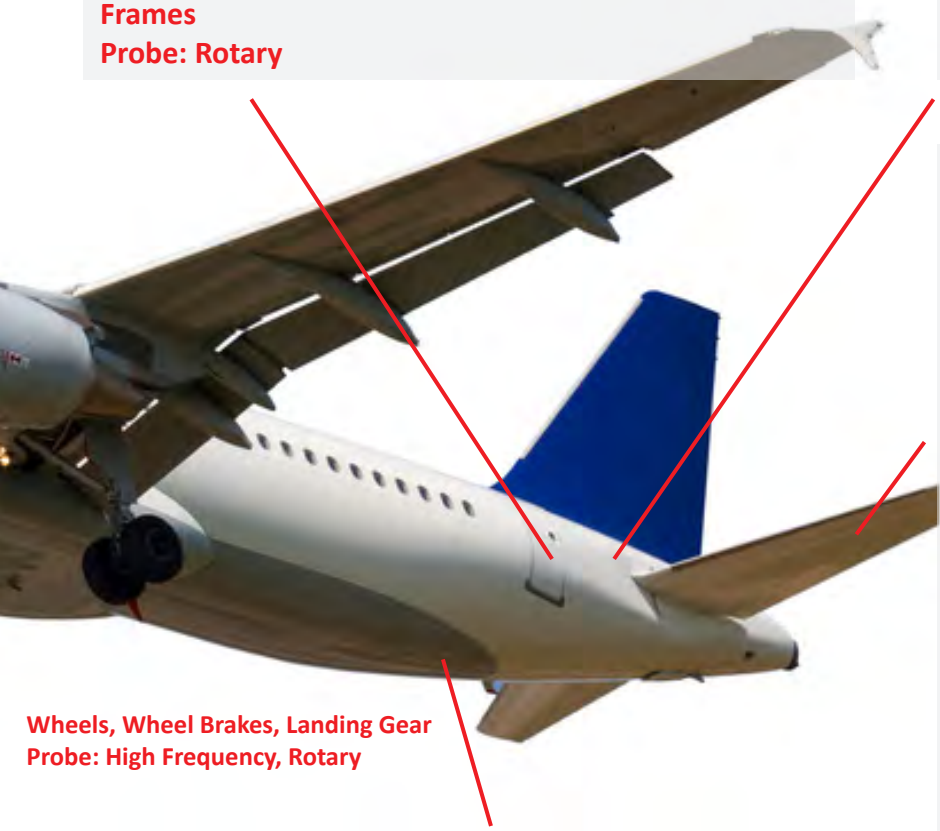
Area of Inspection: Door Access Points & Window Frames
Probe: Rotary

SHARP, CLEAR, LARGE COLOUR SCREEN

An airplane bulkhead can be a very dark spot to carry out NDT inspections.

The AEROCHECK has a large 14.5cm (5.5 Inches) LCD Colour Screen of 640 x 480 pixels providing the Operator with excellent signal resolution and presentation and with the choice of configuring their own colour schemes and display types. It is easy to optimise the screen presentation regardless of the light conditions and it is possible to view a choice of spot, time-base, waterfall or meter display types.

Area of Inspection: Bulkhead
Probe: Low Frequency



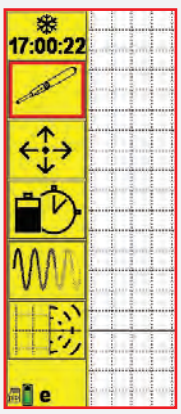
Wheels, Wheel Brakes, Landing Gear
Probe: High Frequency, Rotary

FULLY DAYLIGHT READABLE DISPLAY

Not all NDT inspection on aircraft takes place in the comfort of an aircraft hangar. Featuring a fully daylight readable display, the AEROCHECK can be used effectively both inside and out.

Area of Inspection: Horizontal Stabilisers
Probe: High & Low Frequency

Area of Inspection: Fuselage
Probe: Surface & Sub-Surface



EASY TO USE MENUS & ICON SYSTEM

The AEROCHECK menu system is simple and fast to navigate with its ability to add individually selectable items to the sidebar using recognisable icons for access to a quick setting menu for rapid set-up, review and adjustment.

With four operator-selectable soft keys and a fifth position for the last menu function used, Operators can quickly set up the system with their preferences. Each saved instrument setting can be associated with a unique, single press set of quick access functions. There are also two front panel hard keys that can also be easily programmed for rapid single press access to frequently used functions.

SPECIFICATIONS & KIT LIST

AeroCheck

STANDARD AeroCheck KIT

- IAER001- Instrument, AeroCheck, Single Frequency (20Hz-20MHz), Hand Held Portable Flaw Detector, Software + Manual on USB Stick
- AWEL002 – Accessory, AeroCheck, Power Adapter + Input Plugs (UK, EU, US & Australia)
- AWEL003 – Accessory, Adjustable Shoulder Strap, Padded with Quick-Release
- AC006 - Accessory, Instrument Soft Carry Case
- A090 – USB Cable, A to MIN B, 1 meter
- 40449 - Quick Reference Card – AeroCheck
- ALLCX-M02-015A Accessory, Lead, Lemo 00 to Microdot, 1.5m (Absolute)
- ALL12-L04-015R Accessory, Lead, Lemo 12-Way - Lemo 4-Way (Reflection)

OPTIONAL ACCESSORIES

- AWEL004 – Accessory, Hard Transit Case (AeroCheck)
- AWEL005 – Accessory, Protective Splash Proof Cover / Rope Access
- AWEL006 – Accessory, External, 8 x AA Battery Holder and On/Off Switch
- AWEL007 – Accessory, Wrist Strap
- AWEL008 – Accessory, In car Power Adapter
- ALL12-L04-015R – Accessory, Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Reflection)
- ALL12-L04-015B - Accessory, Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Bridge)
- ALLCX-M02-015A - Accessory, Lead, Lemo 00 to Microdot, 1.5m (Absolute)
- ALLCX-B02-015A - Accessory, Lead. Lemo 00 to BNC, 1.5m (Absolute)
- ARD002 - Mercury (mini) Rotary Drive
- ALL12-L12-020M - Lead to connect Mercury (mini - ARD002) Rotary Drive. Length = 2 metres. 12 Way Lemo
- ALL12-F08-020ETH - Adapter lead to connect Rohmann Rotary Drive MR3, SR1 and SR2. Length = 2 metre. 12 Way Lemo
- 40470 - Tripod Bracket - To fit 1/4” Camera Tripod Mount with Male Screw (WeldCheck/AeroCheck)

PROBE KITS

- KASUR001 - Kit Surface Inspection (4 probes, lead and Al and Fe Test Block)
- KASUBS001 - KIT, Sub Surface Inspection, Low Frequency (2 probes, lead and test piece)
- KAROT001 - Kit Mercury Rotary Drive and Cable Only

Probe	Connectors	12 Way Lemo 2b (Absolute, Bridge and Reflection) and Connection Lemo 00 (for single element absolute probes).
	Rotary	600-3000 rpm - EThер Mercury Drive (ADR002), Hocking 33A100, Rohmann MR3, SR1 abd SR2 Drive (special adapter needed)
Frequency	Single Freq.	20Hz – 20.00 MHz with range variable resolution.
Gain	Overall	-18 to + 100 dB, 0.1, 1 and 6dB steps
	Input	0dB or 12dB
	Drive	0dB or 6dB (0dB reference 1mW into 50 ohm)
	Max X/Y Ratio	+/-100.0 dB
Phase	Range	0.0-359.9°, 0.1° steps
	Auto Phase	Allows phase angle to be automatically set to a pre set angle
Filters	Normal High Pass	DC to 2kHz or test frequency, which ever is the lower in 1 Hz steps. Plus variable adaptive balance drift compensation (0.01 - 0.5 Hz)
	Normal Low Pass	5 to 2kHz or 1¼ test frequency, which ever is the lower in 1 Hz steps.
Balance	Manual	14 internal balance loads; 2.2µH, 5.0µH, 6.0µH, 6.5µH, 7.0µH, 7.5µH, 8.2µH, 12µH, 15µH, 18µH, 22µH, 30µH, 47µH, 82µH
	Automatic	Optimised balance load selection.
Alarms	Box	Fully configurable, Freeze, Tone or visual.
	Sector	Fully configurable, Freeze, Tone or visual.
	Output	Open collector transistor (50v dc at 10mA max) available on 12 way lemo.
Display	Type	18 bit Colour, daylight readable, 5.7” screen.
	Viewable Area	115.2mm (Horizontal) x 86.4mm (Vertical)
	Resolution	640 x 480 pixels
	Flip	Manual or automatic screen orrientation change to enable left or right handed use.
	Colour Schemes	User configurable including High Contrast
	Configurable Screen	Full Screen, Single or Dual screen with variable size and location and function e.g. Screen – Spot and Timebase
	Display Modes	Spot, Time base (0.1-20 seconds x 1-200 sweeps and up to 55 seconds), Waterfall and Meter with peak hold and % readout.
	Graticules	None, Grid (4 sizes 5, 10, 15 and 20% FSH), Polar (4 sizes 5, 10, 15 and 20% FSH)
	Offset	Trace Position: +-/50%
	Digital Spot Position Readout	Display in X,Y or R,θ
Removable Data Storage	Setup Storage	microSD up to 2GB, holding over 500 saves
	Stored Screen Shots	microSD up to 2GB, holding over 500 saves
	Data logging	Comprehensive Record Replay and Storage
		Real-time recording of trace data and Replay on instruments and desktop PC up to 164 seconds
Outputs	PC Connectivity	USB (Full PC remote control plus Real Time data)
	Digital volt free alarm	On Lemo 12 way
	VGA	Full 15 way VGA output
Languages		Initially English, French, Turkish, Spanish, Japanese, Portuguese
Power	External	100-240 v 50-60Hz 30 Watts
	Battery	Internal 8.4V @ 3200mAH = 13.44 watt.hr per cell
	Running Time	Up to 10 hours with a Pencil Probe and up to 7 hours with a Rotary Drive
	Charging Time	2.5 hrs. charge time, Simultaneous charge and operation.
Physical	Weight	1.2 kg, 2.6 lbs. Including Internal Battery
	Size (w x h x d)	223 x 141 x 50 mm / 8.8 x 5.6 x 2.0 inches
	Material	Aluminium alloy Mg Si 0.5 powder-coated
	Operating Temp	0 - 50 °C
	Storage Temp	-10 - 70 °C
	IP Rating	54

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ETHER NDE, Endeavour House, 3 Roundwood Lane, Harpenden, Hertfordshire, AL5 3BW, UK
Tel: +44 (0) 1582 767912 Email: sales@ethernde.com www.ethernde.com