The ETHER weldCHECK is designed for basic eddy current applications especially those field applications such as welding inspection on drilling rigs, amusement park rides and other demanding applications that require an easy to operate and view instrument.

**WeldCheck EC Flaw Detector Advantages:**

- Large, Crisp Daylight Readable Display
- Easy to Use
- 8.5 Hrs + Battery Life
- Industry Standard Probe Connectors
- Great Eddy Current Performance
- Flippable for Left or Right Hand Operation
ETHER WeldCheck Eddy Current Flaw Detector

**DAYLIGHT VISIBLE LARGE COLOUR SCREEN**

We understand that the operator will use the WeldCheck in all types of weather and light conditions and being able to see the screen clearly is a top priority.

The WeldCheck has a fully daylight readable 14.5cm LCD Colour Screen of 640 x 480 pixels ensuring the Operator has excellent signal resolution and presentation no matter what the working conditions are.

The operator has the choice of configuring their own color schemes and display types. This will optimize viewing ability of the screen in any light conditions. It is possible to view the display in spot, time-base, waterfall or meter display types.

**WORKS THE WAY YOU DO!**

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

**EASY TO USE WITH “ALL-IN-ONE” MAIN MENU**

The WeldCheck features a simple “single-level” menu system. In addition, any menu item can be added to the “Quick Menu” sidebar with its own easily recognizable Icon enabling faster adjustments during the inspection process.

As with mobile phone or keyboard usage, our fingers become accustomed to repeating patterns of key presses. The WeldCheck keypad has been cleverly designed to exploit this trait, with all critical keys being in the same position regardless of whether the Instrument is being operated in “right-handed” or “left-handed” mode.

**EASY ICON SYSTEM**

In order to allow the operator to configure the instrument for ease of use there is a system of operator-selectable soft keys. Every menu item has its own easily recognizable icon. There are four soft key positions for operator selectable icons for frequently used functions and a fifth position for the last menu function used. Each saved instrument setting can be associated with a unique, one press set of quick access functions. There are also two front panel hard keys that can also be easily programmed for rapid one press access to instrument functions.
ETHER WeldCheck Eddy Current Flaw Detector

LIGHTWEIGHT, COMPACT & RUGGED
We have built the WeldCheck with these points in mind. The WeldCheck weighs just 1.2kg and has a robust hardwearing metal casing with the internal design optimized to resist moist, tropical or salt-laden atmospheres.

21ST CENTURY CONNECTORS
Under the flap there is a USB Connection for fast data transfer, SD Card Slot and VGA output for classroom and head-up display use.

EXTRAORDINARY BATTERY LIFE
With more than 8.5 hours battery life with a 100kHz Weld Probe and maximum backlighting, the WeldCheck is an obvious choice when faced with a long day of Eddy Current NDT. With the internal memory able to store over 500 saved readings, the WeldCheck can easily be in the field for an entire shift without needing to be returned to base for charging.

Even better, the AA battery power pack can extend the battery running time for a further 4 hours.

EQUIPPED FOR ALL ENVIRONMENTS
We know that in an oilfield environment the WeldCheck is going to come up against some of the harshest working conditions in the NDT industry, not to mention being lifted and lowered on ropes, dropped and bumped.

With a rear foot stand and four harness attachment points, the WeldCheck is designed to be used in all environments from the desktop in the office to the rigors of the job site.

INDUSTRY STANDARD PROBE CONNECTOR
The WeldCheck is able to use absolute, bridge, reflection and connected probes and is fitted with the industry standard 12 Way LEMO Connector and a LEMO 00 for absolute probes.
## ETHER WeldCheck Eddy Current Flaw Detector Specification

### Probe Connection
- 12 Way Lemo 2b (Absolute, Bridge and Reflection) and Lemo 00 (for single element absolute probes).

### Frequency
- Single Frequency: 20 kHz – 20 MHz with range variable resolution.

### Gain
- Overall: -12 to +100 dB, 0.1 dB steps
- Input: 0dB or 12dB
- Drive: 0dB to 6dB steps (0dB reference 1mV into 50 ohms)
- Max X/Y Ratio: +/-70 dB

### Phase
- Range: 0-359°, 0.1° steps
- Auto Phase: Allows phase angle to be automatically set to a pre set angle

### Filters
- Normal High Pass: 30 to 2kHz or 1kHz test frequency which ever is the lower in 1 Hz steps, Plus variable adaptive balance drift compensation (0-1 - 0.5 Hz)
- Normal Low Pass: 5 to 2kHz or 1kHz test frequency which ever is the lower in 1 Hz steps.

### Balance
- Manual: 14 internal balance loads: 2, 3, 4, 6, 8, 12, 16, 20, 24, 32, 40, 48, 60, 80, 100 µH

### Alarm Box
- Fully configurable, Freezer, Tone or visual

### Sector
- Fully configurable, Freeze, Tone or visual

### Output
- Open collector transistor (50V do at 10mA max) available on 12 way lemo.

### Display
- Type: 18 bit Colour, daylight readable, 5.7” screen.
- Viewable Area (horizontal x vertical): 115.2 x 86.4mm
- Resolution (pixels): 960 x 480
- 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 (x 1 to 4) MHz, 0 to 99999, +, - (UV), real time/aver.
- None, Grid (x sizes 5, 10, 15 and 20%, FSH), Polar (sizes 5, 10, 15 and 20% FSH)
- Erector: Trade Position +/- 90°
- Offset Digital Spot Position Readout: Display in X/Y or R/B

### Internal Data Storage
- Setup Storage: microSD up to 2GB, holding over 500 saves
- Stored Traces: microSD up to 2GB, holding over 500 saves
- 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, German, Spanish, Italian, Portuguese, Dutch, Polish, Others to follow

### Power
- External: 100-240 x 50-60Hz 30 Watts
- Battery: Internal 5.4V @ 3300mAh
- Running Time: Weld Probe plus 100% backlight over 8.5 hrs, up to 10.5 hrs, with 50% backlight
- Charging Time: 2.5 hrs. charge time, Simultaneous charge and operation.

### Physical
- Weight including Internal Battery: 1.1 kg, 2.4 lbs
- Size (width x height x depth): 223 x 141 x 49 mm / 8.8 x 5.6 x 1.9 inches
- Material: Aluminium alloy Mg 5.5 powder-coated
- Operating Temp: 0 - 50 °C
- Storage Temp: -10 - 70 °C
- IP Rating: 54

Phone: 913-685-0675  
e-mail: sales@ndtsupply.com  
Fax: 913-685-1125  
web: www.ndtsupply.com
ETHER WeldCheck Eddy Current Flaw Detector

**WeldCheck Eddy Current Flaw Detector Kit**

- **STANDARD WELDCHECK KIT**
  - AWEL001 Instrument, WeldCheck, Single Frequency (20Hz-20MHz), Hand Held Portable Flaw Detector, Software + Manual on USB Stick
  - AWEL002 Accessory, WeldCheck Power Adapter + Input Plugs (UK, EU, US & Australia)
  - AWEL003 Accessory, Adjustable Shoulder Strap, Padded with Quick-Release
  - AC005 Accessory, Instrument Soft Carry Case
  - A090 USB Cable, A to MIN B, 1 meter
  - 40449 Quick Reference Card – WeldCheck

- **OPTIONAL ACCESSORIES**
  - AWEL004 Accessory, Hard Transit Case (WeldCheck)
  - AWEL005 Accessory, Protective Splash Proof Cover
  - AWEL006 Accessory, External, 8 x AA Battery Holder and On/Off Switch
  - AWEL008 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)

- **STANDARD WELD INSPECTION PACKAGE**
  Our Standard Weld Inspection Package can be used across our range of Eddy Current Flaw Detectors and those of our competitors. Designed and manufactured in the UK, our Weld Probes are high quality with fast delivery times. Follow the link to find out more about our range of Eddy Current Weld Probes.

  - PWME10000 Probe, Weld, Medium, Dia 16.00, 100kHz, Straight, Disconnect
  - PUB120K Unshielded, Broad Band (Paint), 100kHz (590Hz-250kHz), BNC
  - AT8W Accessory, Test Block, Weld Probe, Ferrous (Steel EN1A) + x 4 0.5mm Shims, 0.5, 1.0, 2.0mm slots
  - ALL12-L04-015B Accessory, Lead, Lemo 12-Way - Lemo 4-Way, 1.5m (Bridge)
  - ALLCX-B02-015A Accessory, Lead, Lemo 00 to BNC, 1.5m (Absolute)
  - AW003 Accessory, Butterfly PTFE Tape (Pack of 30)
  - AC002 Accessory, Butterfly PTFE Bag

Phone: 913-685-0675
Fax: 913-685-1125
e-mail: sales@ndtsupply.com
web: www.ndtsupply.com