

## Features - ULT-2000 Series

- ◆ Tests the Upper & Lower Leakage Current Limits per Ultrasound Mfr. Specifications
- ◆ Range 0.5 to 500 uA - Designed to Meet Mfr. Transducer Specifications
- ◆ Large Graphic Display w/Backlighting Allows Easy Selection of Options & Setup of Parameters
- ◆ User-Selectable Challenge (Test) Voltage (90 to 275 VAC) & Frequency (50 or 60 HZ)
- ◆ User-Selectable Test Limits
- ◆ Programmable Test Limits Based on Ultrasound Transducer Mfr. & Type
- ◆ 1% F.S. Range Accuracy
- ◆ Auto Ranging for Enhanced Accuracy Over Entire Range
- ◆ Single Button Press for Full System Test
- ◆ Selectable Pass/Fail or Numerical Test Results
- ◆ User-Selectable Display Options
- ◆ Programmable Backlight Timer
- ◆ Flash Programmable, Field Upgradeable
- ◆ Compatible with Dale Technology® & Fluke Biomedical® Adapters & Probes
- ◆ RS232 Interface
- ◆ PC Utility Software for Configuration Setup & Remote Control
- ◆ Test Results Printable with Optional Printer
- ◆ On-Board Clock & Calendar Function for Date/Time Stamp of Test Records
- ◆ On-Board Storage for up to 99 Test Records
- ◆ Audio-Visual Test Status Notification

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# ULTRASOUND LEAKAGE TESTERS

*BC Biomedical ULT-2000 Series*

ULT-2000



Optional  
ULT-2000 Printer

The ULT-2000 Series is specifically designed to test the electrical safety of all types of diagnostic ultrasound transducers, totally independent of the ultrasound machines on which they are typically used. Although the ULT-2000 can be used on virtually any type of ultrasound transducer, it is especially recommended in the testing of TEE (Transesophageal Echocardiography) transducers prior to each use; as recommended by many TEE ultrasound device manufacturers. The ULT-2000 tests the integrity of the outer insulation barrier of the transducer as well as the capacitive leakage currents that exist.

The ULT-2000 Series is the most advanced instrument of its kind on the market today and adds a totally new dimension to diagnostic ultrasound transducer electrical safety testing. With features and functionality that far surpasses competitive products from other manufacturers, the ULT-2000 is easy to set up and use. Operating modes include a simple PASS/FAIL mode as well as a QUANTITATIVE mode that offers actual readings. You can print test results to an optional printer.

Compatibility with Dale Technology® DALE800, Fluke Biomedical® ULT800 adapters and Dual Conductivity Probes allow you to upgrade to the very latest technology platform, while safeguarding your prior investment in adapters and probes. A wide variety of BC Biomedical adapters and accessories are available.



# BC BIOMEDICAL ULT-2000 SERIES

## SCREEN SHOTS

Typical Display During Testing

**Test Procedure:**  
SOURCE TEST to verify voltage used during test.  
CIRCUIT TEST to verify measurement circuitry.  
BATH CONDUCTIVITY TEST to validate cleaning solution.  
PROBE LEAKAGE TEST to measure the leakage current of the DUT.

**Progress Indicator**

**Test Measurements**

**DUT Information**  
Manufacturer: Model

```

Full Test  Sonosite: TEE
Source Voltage 119V [x]
Circuit Test 96 µA [x]
Bath Cond µA [ ]
Probe Leakage µA [ ]
    
```

Typical Passing Results Display Choices

**Quantitative Mode**

```

Full Test  Sonosite: TEE
Source Voltage 119V [x]
Circuit Test 97 µA [x]
Bath Cond 252 µA [x]
Probe Leakage 51 µA [x]
TEST PASSED
    
```

**Pass/Fail Mode**

```

Full Test  Sonosite: HST
Source Voltage Test [x]
Circuit Test [x]
Bath Conductivity Test [x]
Probe Leakage Test [x]
TEST PASSED
    
```

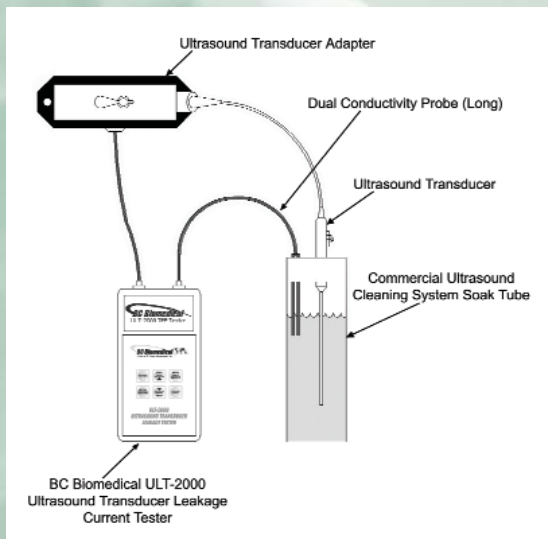
Typical Failed Results Display

```

Full Test  Sonosite: TEE
TEST FAILED [x]
Leakage too High [x]
Limit: 100 µA [x]
Reading: 107 µA [x]
    
```

Quantitative Mode & Pass/Fail Mode

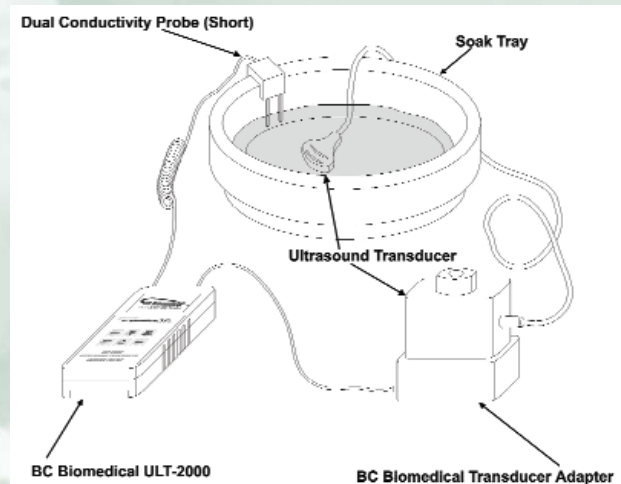
Test Your TEE Transducers While They Are Being Disinfected in a Commercial Cleaner



## SPECIFICATIONS

<b>Source Voltage</b>	90 to 275 VAC, ± 1% FS
<b>Leakage Current</b>	.5 to 10 µA, ± 1% FS Range 10 to 250 µA, ± 1% FS Range 250 to 500 µA, ± 1% FS Range
<b>Conductivity Current</b>	.5 to 10 µA, ± 1% FS Range 10 to 250 µA, ± 1% FS Range 250 to 500 µA, ± 1% FS Range
<b>Display</b>	LCD Graphical w/Backlighting 128 x 64 Pixels
<b>Setup Memory</b>	EEPROM, All Parameters
<b>Memory Retention</b>	10 years w/o Power
<b>Operating Range</b>	15 to 30° C
<b>Storage Range</b>	-40 to 60° C
<b>Construction</b>	Enclosure - ABS Plastic Face - Lexan, Back Printed
<b>Size</b>	7.09" x 3.94" x 1.56"
<b>Weight</b>	≤ 1.5 lbs
<b>Connections</b>	Power - 2.1 mm Center Negative
<b>Power</b>	Line - 9V DC, Center Negative Battery - 9V Lithium
<b>Power Consumption</b>	On - Less than 150 mA Off - Less than 40 µA
<b>Battery Life</b>	Continuous - 20 hours Off - 12 months
<b>Battery Eliminator (Optional)</b>	US - BC20-21100 Euro - BC20-21101 9V, 200 mA DC

Typical Test Setup for Testing Your Ultrasound Transducers with a Transducer-Specific Adapter & a Soak Tray



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