The RD³ (Rapid Damage Detection Device) is a hand held, low cost non-destructive inspection instrument that can be used to detect voids, degradation, and delaminations in composite structures. No more tapping with a coin in a noisy environment for questionable results. The RD³, also known as the Electronic Digital Tap Hammer, supplements the subjective tonal discrimination of the operator with a quantitative, objective numeric readout that can be correlated to delaminations in the structure. The unit consists of a lightweight hammer containing an accelerometer, which is connected by flexible cable to a hand held module containing digital logic components and a liquid crystal display.

With its low cost, quantitative and recordable readout and ease of use, the RD³ will prove invaluable and indispensable to routine non-destructive examinations.

RD³ Features

- Portable, hand held low cost system
- Can detect flaws with as little as 10 percent change
- Large .350 inch display for digital value
- Automatic display reset
- Low weight detection hammer
- Scope monitor jack for hammer signal evaluation and signal storage
- Approximately 20 hours of continuous battery operation
- Durable impact resistant case
- “Low battery” light
- 1-year warranty
CHARACTERISTIC | SPECIFICATION
--- | ---
Size | 7"L x 4"W x 1 5/8"D
Weight | 1 Pound
Power | One 9 Volt Alkaline Battery
Battery Life | 9 Volt—Approximately 20 Hours of Continuous Use
Automatic Display Reset to Save Battery Power
Inputs | 1. Electronic Digital Tap Hammer Jack
Outputs | 1. Large .350 Inch Liquid Crystal Display
 | 2. Standard Oscilloscope Jacks
 | 3. Low Battery Indicator
Storage | Unbreakable, Watertight, Dustproof Equipment Case with Foam Interior
Shipping Weight | Approximately 4 lbs.

In a controlled comparison against another bondtester now on the market, the RD³ produced similar results and actually showed slightly greater relative signal change (sensitivity) at 4.6, and 7 plies. (Their bondtester uses a solenoid-driven impact head to produce a controlled amplitude impact.) The RD³ did not show as great a signal change as the solenoid tapper did at 2 plies, but sensitivity is not an issue at this level because the signal difference between bonded and disbonded plies is so large. In terms of actual data, the RD³ compares favorably with the other much more complex and costly device.

The RD³ is manufactured by WichitTech Industries, Inc.
Technology licensed by The Boeing Company. Patent 6,748,791.

For more information, to place an order, or for a personal demonstration, please contact:

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