

# BondaScope 350

Miniature Dual-Mode, Handheld Ultrasonic Bond Tester

## Dual-Mode... Resonance and Pitch-Catch

RF, Flying Dot Impedance, High Speed

Swept Freq - Pitch-Catch

Tone Burst and Spike Drive in Pitch-Catch

Bond Profile, SplitScan, SplitView Mode

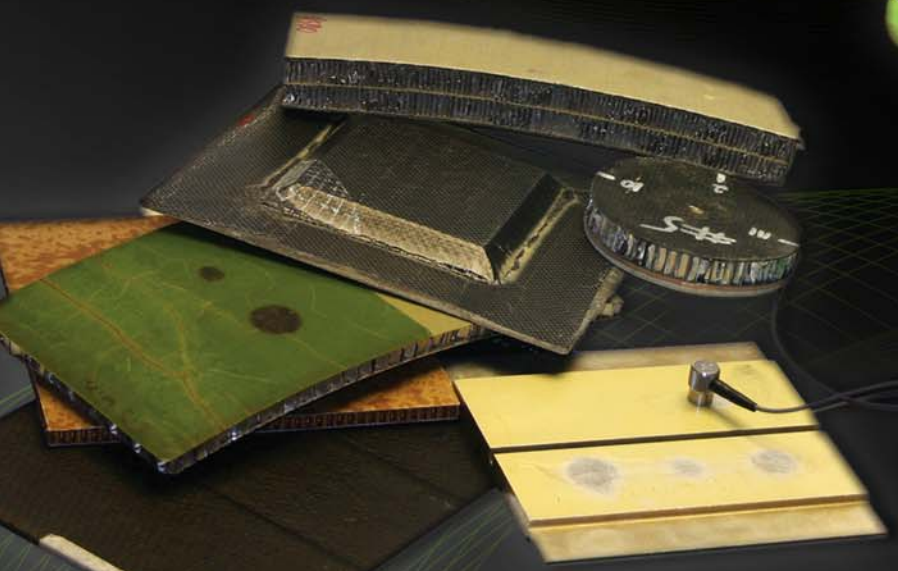
3.9" Diagonal LCD Display

User Adjustable TRUE Digital Persistence

Storage for Over 250 Display Images

Operates on 3 or 6 'AA' NiMH Batteries

3.25" Wide X 1.4" Deep X 7" Long



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 **NDT Systems**  
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# BondaScope 350

Miniature Dual-Mode Bond Tester

**FEATURING:**  
Flying Dot Resonance  
Pitch-Catch  
Swept Frequency  
Bond Profile  
3.9" LCD Display  
ONLY 1.8Lbs!!

The All New BondaScope 350 is the latest in a series of Highly Affordable, Feature-Rich, High Performance Ultrasonic Bond Testers available from NDT Systems, Inc., the originators of the first Microprocessor Based, Impedance Plane, Resonance Bond Tester. New, Industry Leading Features of the BondaScope 350 include Bond Profile Mode, Split Screen, Flying Dot Resonance (impedance Plane) mode, High Energy Pulsed Pitch-Catch Mode as well as full featured Tone Burst mode, Separate Phase and Amplitude Alarm ability, Sunlight viewable 3.9" LCD Display, True User Adjustable Display Persistence and Much More. Probes are dry or liquid film coupled (dependant on selected test mode).

**Bond Profile** is a time-encoded scanning presentation whereby the Phase/Amplitude are plotted in Real Time, yielding a Time Based trend pattern allowing for user assessment. Operators generally find trended information easier to comprehend and therefore can have a much higher confidence level in the inspection. NDT Systems, Inc. was first to offer this in the BondaScope 300, Miniature Pitch-Catch Bond Tester.

**Applications** include the inspection of metallic, non-metallic and combination metallic/non-metallic bonded structures for a variety of anomalous conditions. Detectable anomalies include measurable levels of unbonds, voids, delaminations, inclusions, porosity, fiber damage, core damage, bondline thickness variations, and certain material properties. Inspectable configurations include adhesively-bonded laminates, advanced fiber composites and honeycomb to mention a few. Some typical applications include multi-layer laminates, graphite resin composites, boron fiber composites, Kevlar composites, glass fiber composites, composite-to-substrate, composite-to-composite, honeycomb structures, skin-to honeycomb, honeycomb-to honeycomb, Impact Damage and many more.

## SPECIFICATIONS

**Modes:** Resonance (RF & Flying Dot); Pitch Catch (Tone Burst - Adjustable Fixed Frequency, Cycles and Amplitude) High Energy Pulsed Mode. Swept Frequency in Pitch Catch

**Display:** 240 x 320, Quarter-VGA, 3.9" Diagonal Backlit LCD Display - Direct Sunlight Viewable!

**Probe Connector:** Miniature 8-Pin Lemo - Adaptors available to mate other available probes.

**Frequency Range:** 250Hz - 1.5MHz (Probe, mode and setup specific)

**Alarm:** Box, Polar and up to 8 individual and individual-sized "Ring Gates" centered at stored Reference Dot locations in Impedance Plane operation. Positive or negative operation.

**Storage:** 100 Setups and 250 Screens w/ Real Time Date and Time Stamp. Full 32 character Alpha-Numeric File naming with 8 lines of 32 characters for user comment or instruction.

**Master Supervisor Setup and Lockout:** Supervisory mode allows individual instrument setups parameters to be totally locked, totally unlocked or allow the user to operate ONLY within the supervisory defined parameters. For instance, allow frequency change within 24-28KHz and Gain within 35-40dB and no change to alarm etc. Available to EVERY instrument setup parameter! ...Another Industry First

**Inputs & Outputs:** USB Standard - Supports screen download and setup/user comments up and down load

**Power Source:** 3 or 6 'AA' NiMH Rechargeable Batteries. Can operate on standard off-the-shelf alkaline batteries as needed - Approximately 8 Full Hours Operation

**Charging:** On Board Fast Charger. 85-240VAC Auto Sensing

**Dimensions:** 3.25"W x 1.4"D x 7"H (82.5x35.5x178mm)

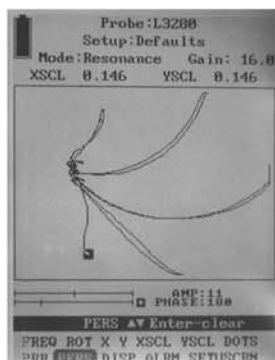
**Weight:** 1.8 Lbs... Including Batteries!!

**Operating Temperature:** 32° to 140°F (0° - 60°C)

**Accessories and Options Include:** Full Range of Resonance and Pitch Catch probes and Cables, Pelican Style transport case, Instrument Soft Pouch, Spare Batteries, Data Storage and Transfer Software - Windows Based.

**Contact Us** regarding Probe Fixtures and Custom Application Requirements.

NDT Systems, Inc is proud to offer a never before available, full line of ultrasonic bond testers to meet virtually any application or budget



RF & Bond Profile  
In "SplitView" Mode



Real Time Reference  
Presentation. Displays  
X, Y, Phase & Amplitude



BondaScope 2100, The World's FIRST Microprocessor Based Impedance Plane Bond Tester Still Factory Serviced & Supported. (Circa - 1977) Patent No. 4,215,583



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BondaScope 3100 & Probes  
Along with BondaScope 300 & 350

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