

*The ultimate coverage  
in coating systems*



# Ultrasonic Systems, Inc.

Coating Systems

## Company History

- Founded in 1989 with over 2,500 ultrasonic coating systems installed worldwide in the electronics assembly market
- Developed proprietary “nozzle-less” ultrasonic spray coating technology
- Multiple applications including:
  - Fuel Cell
  - Solar
  - Electronics Assembly
  - Display
  - Semiconductor Packaging
  - LED Manufacture
  - Medical
  - Batteries
  - Specialty

## EMI Shielding Requirement

- EMI shielding is increasingly important
  - highly sensitive components more tightly packed in circuit assemblies
  - prevent EMI interference between components
  - minimizing thickness of EMI shield layer critically important
- Traditional methods to apply EMI shield layer
  - sputtering
  - plating
  - layer thickness 3 to 6  $\mu\text{m}$  has proven effective
  - complex application process
  - substantial process cost
- New EMI shield coating materials
  - recently developed
  - applied by much simpler and cost effective ultra-thin Coating Application Technology (T-CAT)
- T-CAT Application Process
  - “nozzle-less” ultrasonic spray technology
  - precision coating system platform
  - same EMI shield performance as traditional methods
  - reduces process cost by up to 60%