



## The Surface Analyst™



The Surface Analyst is a fast, easy, accurate, and non-destructive instrument that quantifies your level of surface preparation from the lab to the manufacturing floor.

**In 2 seconds**, the Surface Analyst determines the surface cleanliness level by providing the contact angle measurement and a pass/fail result.



### **Fast.**

Contact angle measurement and pass/fail reading produced in 2 seconds

### **Easy.**

Android base allows for easy handheld inspections in any direction, on any surface

### **Accurate.**

Quantitative measurements are exact and non-subjective

### **Non-destructive.**

The contact angle is measured using HPLC highly purified water, eliminating the risk of material damage

### **BTG Labs**

5129 Kieley Place  
Cincinnati, OH 45217

**513.469.1800**

[sales@btglabs.com](mailto:sales@btglabs.com)

### **Applications:**

- Bonding
- Sealing
- Painting
- Coating
- Printing
- Cleaning

### **Industries Served:**

- Aerospace
- Electronics
- Automotive
- Medical Devices
- Consumer Goods

### **Inspections On:**

- Composites
- Metals
- Polymers
- Glass
- Biological Surfaces
- Certain Textiles
- Ceramics



**Tether**

Allows measurements on hard-to-reach surfaces: horizontal, vertical, inverted, blind, contoured, and textured

**Data Transfer Ports and Bluetooth**

Allows users to connect wirelessly or directly to PC for transferring, data, images, and instrument updates

**Powered by Android**

Intuitive, easy-to-use interface for beginning and advanced users

**Live Video Scope Image**

displayed on screen

LCD touchscreen displays results in 2 seconds

**Customization** for substrate and user log-in profiles

**Logs and displays all inspection images and data history** for review on instrument

**Inspection Foot**  
Assorted feet options to accommodate customer specific applications

**Inspection Head**

Includes built-in **Video Scope** for exact drop placement

**Micro Fluidic Valve** for patented Ballistic Deposition of water droplet

**Advanced Vision System**

Lighting and optics accurately calculate contact angle



**Fluid Cartridge**

Uses non-destructive, highly purified HPLC water



**Battery**

Rechargeable, replaceable lithium ion battery for continuous operation



**BTG Labs**

5129 Kieley Place  
Cincinnati, OH 45217

**513.469.1800**

sales@btglabs.com

Instrument Dimensions	10.8×5.2×22.9 cm (4.2×2.1×9 in)
Instrument Weight	.5kg (1lb)
Operational Temperature Range	55°- 90° F (13°- 32° C)
Fluid Measurements	1000 per cartridge
Minimum Inspection Clearance	1.2 in
Battery	2 hour charge cycle
Operation per Charge	5 hours of continuous operation
Inspection Time	2 Seconds