

# GELSiGHT Mobile™

GelSight Mobile™ is a handheld instrument that precisely visualizes and measures the 3D topography of any surface, revealing microscopic structures that are difficult to see under ordinary circumstances. The tool can be used on any surface, including metal or glass, due to GelSight's patent-pending elastomeric sensor.



## Aerospace Applications

### OEM / Manufacturing:

Quality Control to measure and characterize surface features or defects to maintain tolerance

### Maintenance Repair Overhaul:

Surface anomaly and discontinuity measurement before or after repairs

### Example Measurements:

Scratches, impact dents/dings, pits, surface roughness, corrosion, texture, gaps, and offsets

## Main Features



### Rapid Results:

3D measurements and data file provided within seconds of capture



### Handheld:

Ergonomic, easy-to-use for immediate data in the field or on factory floor



### Precise:

Incredibly detailed and reliable micron-level 3D measurements



### Versatile:

Measure any material (metal, glass, carbon fiber) or surface (reflective, transparent)

# Why GelSight?

## Advantages:

- High-accuracy quantitative 3D data for entire surface vs. depth gauge or 2D profilometer
- Easy, immediate, and repeatable results vs. laborious or time-consuming processes
- Can be conducted in situ without destruction or disassembly to send off-site
- Works with reflective and transparent surfaces, such as metal or glass

## Economic Benefits:

- Reduces waste/scrap and non-quality costs
- Decreases capital need for inventory
- Improves throughput/productivity for high-cost parts
- Enhances documentation/audit trail of data for later reference

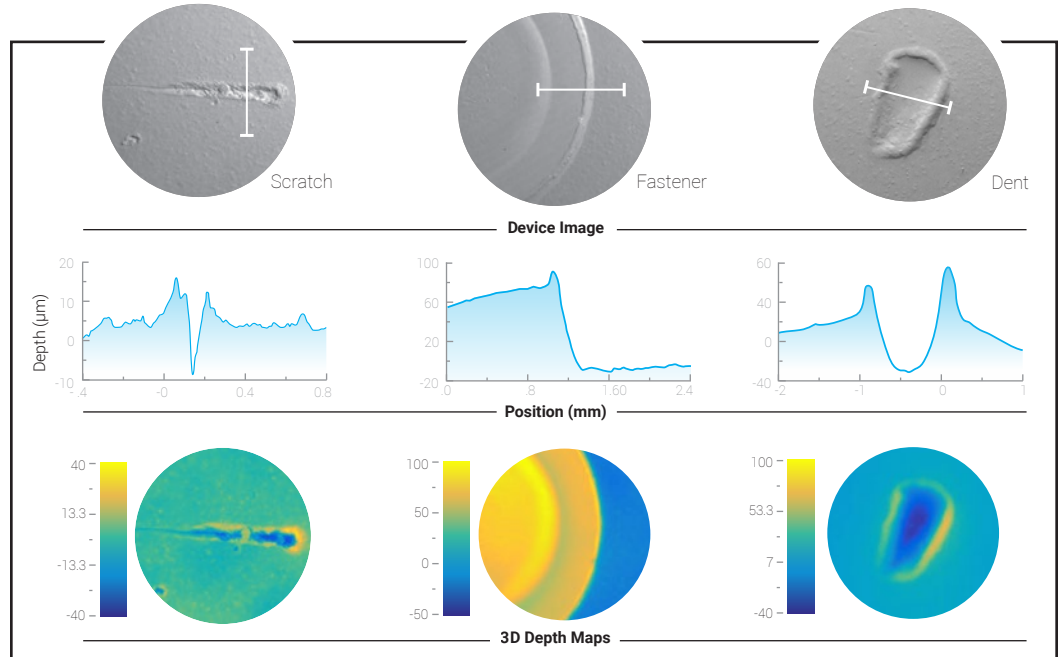
# How it Works

## Elastomeric Imaging:

The elastomeric sensor conforms to the surface topography, revealing detailed surface features regardless of lighting conditions or material reflectivity, e.g., specularly or translucency. The surface detail is displayed on contact, giving instant visual feedback.

## 3D Measurement:

The 3D depth map is calculated from images of the surface, providing position, depth, and other derived surface measurements at a high resolution.



# Specifications

<b>Standard Device</b>	6cm x 6cm x 16cm, 500 g
<b>Extended View Device</b>	6cm x 6cm x 22cm, 600 g
<b>Resolution</b>	5 MP camera, 75 FPS
<b>Accuracy</b>	<1 Micron
<b>Capture Speed</b>	100ms
<b>3D Data Speed</b>	3D data available in seconds
<b>Interface</b>	USB 3.0 to Tablet or Laptop
<b>Tablet Included</b>	Microsoft Surface Pro
<b>Standard Field-of-View Option</b>	8.4mm x 7.1mm
<b>Extended Field-of-View Option</b>	16.9mm x 14.1mm