



# GelSight Mobile™ Series 2

High-resolution, non-destructive 3D surface analysis and defect inspection

The GelSight Mobile™ Series 2 is a handheld, precision surface analysis solution that immediately quantifies the surface characteristics of any material at any workflow location, regardless of composition, reflectivity, transparency, or ambient lighting conditions. Its precise, repeatable, in-situ measurement capability can save thousands of dollars and/or man-hours per year in unnecessary scrap, re-work, down-time, or poor yields by eliminating false failures and boosting productivity.

Breakthrough Digital Touch technology with AI Toolbox for non-dimensional inspection is Industry 4.0 ready

Users can create AI models to apply touch sensing to many tasks that had no simple path to digitization. In addition, automated process workflows, including robotic operation, are enabled by external triggering, mounting holes, custom pass/fail test routines, batch-mode analysis, STL and CSV outputs, and immediate PDF report generation.



The GelSight Series 2 surface analysis system offers the benefits of quantitative and AI-driven non-dimensional surface measurement techniques, with the simplicity of a portable, handheld instrument that requires no fixturing.

For use in hard-to-reach areas, the Replica Transformation feature enables direct, in-situ measurements of replica material for results in under a minute.

Improve productivity across a wide range of workflows

- Production Quality Control
- Incoming Inspection and Vendor Qualification
- Field Installation and Flight Line
- MRO (Maintenance & Repair Operations), and Sustainment
- Research & Development
- Academia



## Precise & Repeatable

Provides extremely detailed, highly accurate, repeatable, micron-level measurements to eliminate human error and subjectivity



## Fast

Real-time 2D and 3D surface inspection with operator-specific UI workflows enables rapid decision making and productivity improvements. Results in under a minute.



## Portable & Versatile

Inspect and measure any material— metal, glass, 3D printed, composite, plastic, painted, coated, organic and more — including highly reflective, transparent and translucent surfaces under any lighting conditions in any location to boost productivity



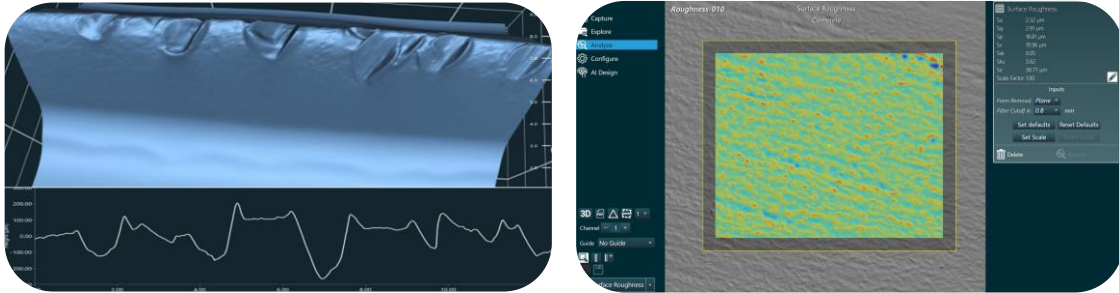
## Traceable

Provides objective evidence, full documentation, and a digital audit trail

# Measurement and Analysis Applications

Unlike manual, mechanical, or optical measurement technologies, GelSight's patented elastomeric sensor technology conforms to the topology of any surface regardless of material, reflectivity, transparency, or ambient lighting conditions. 2D surface detail is displayed in real time, and micron-level 3D measurement and analysis of surface textures and defects are computed and displayed in seconds.

## Applications Include



- Profile Roughness
- Surface Roughness
- Pitting / Porosity
- Texture / Profile
- Shot Peen Finish
- Scratches / Cracks / Nicks / Dents
- Fastener Flushness
- Hole Diameter
- Fillet Relief
- Radius of Curvature
- 3D Geometry / Topology (X-Y-Z)
- Weld Bead
- Direct Replica Measurement with image transformation

## GS Mobile Condensed Specifications



Dimensions: Grip	45 x 49 x 158 mm	1.8 x 1.9 x 6.2"
Dimensions: Tip	50 x 50 mm	2 x 2"
Weight	400 g	0.88 lbs
Field of View	17 x 14 mm	0.7 x 0.6
Roughness Range	2 - 20 $\mu\text{m}$	79 - 790 $\mu\text{in}$
x-y Accuracy	3 $\mu\text{m}$ + 1%	0.1 thou + 1%
z Accuracy (1-50 $\mu\text{m}$ )	1 $\mu\text{m}$ + 4%	0.03 thou + 4%
Triggering	Manual, Software, External	
Capture Speed	100 ms	
Data Export Format	PDF, STL, CSV, TMD	
Operating System	Windows 10 and above	
Interface / Power	USB-C	
Optional Computer	Microsoft Surface Pro 8	

*Note: Specifications are subject to change without notice*



Aerospace  
& Military



Automotive



Forensics



Additive  
Manufacturing



Research  
& Academia



Chemical



Oil & Gas