



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 X-Y-Z dimensions of any surface 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
is Industry 4.0 and Quality 4.0 ready

Automated process workflows, including robotic operation, are enabled by external triggering, remote mounting, pass/fail test routines, batch-mode analysis, stl /.csv outputs, and immediate .pdf report generation.



The GelSight Series 2 Probe combined with GSMobile 3.1 Software offers the benefits of contact and non-contact 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 seconds.

Improve productivity
across a wide range of
workflows

- Production Quality Inspection & Quality Control
- Field Installation and Acceptance
- MRO (Maintenance & Repair Operations), and Sustainment
- Research & Development
- Academia



Accurate

Provides extremely detailed, highly accurate and repeatable, micron-level measurements in three dimensions.



Portable

Ergonomic, handheld unit allows convenient use on the shop floor, in the lab, or in the field.



Fast

Provides 3D visualization and measurements within seconds.



Versatile

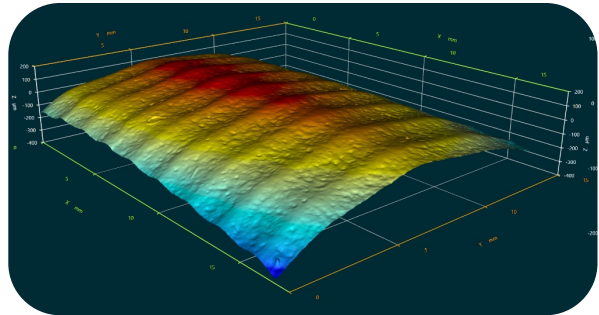
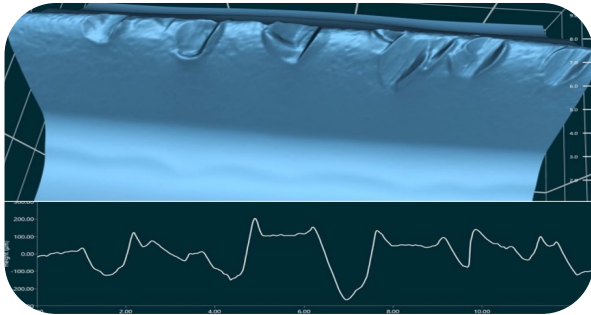
Inspect and measure any material— metal, glass, 3D printed, composite, plastic, painted, fabric, organic and more — including reflective, transparent and translucent surfaces under any lighting conditions in any location.

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.

New to GSMobile 3.1 is a Radius of Curvature function which enables fast, precise, portable radii measurement on blade edges, tire treads, small-dimension parts such as pins, rods, and cylindrical items, as well as other surfaces. For hard-to-reach areas, the updated Replica Transformation feature enables direct, in-situ measurement of replica material to eliminate the traditional down-time waiting for lab results.

Applications Include



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

Condensed Specifications



Dimensions	5 cm x 5 cm x 15.5 cm	2" x 2" x 6.1"
Weight	400 g	0.88 lbs
Field of View	17.0 mm x 14.2 mm	0.66" x 0.56"
x-y Resolution (G520 Calib. Plate)	3 μ m +0.2%	0.1 thou + 0.2%
x-y Resolution (G500 Calib. Plate)	3 μ m + 1%	0.1 thou + 1%
z Sensitivity	< 1 μ m	0.04 thou
z Accuracy (17025)	4 μ m	0.16 thou
Capture Speed	100 mS	
Operating System	Windows 10 and above	
Interface / Power	USB-C	
Data Export Format	pdf, csv, nm, tmd, stl	
Optional Computer	Microsoft Surface Pro, 12.3"	



Aerospace
& Military



Automotive



Forensics



Additive
Manufacturing



Research
& Academia



Chemical



Oil & Gas