

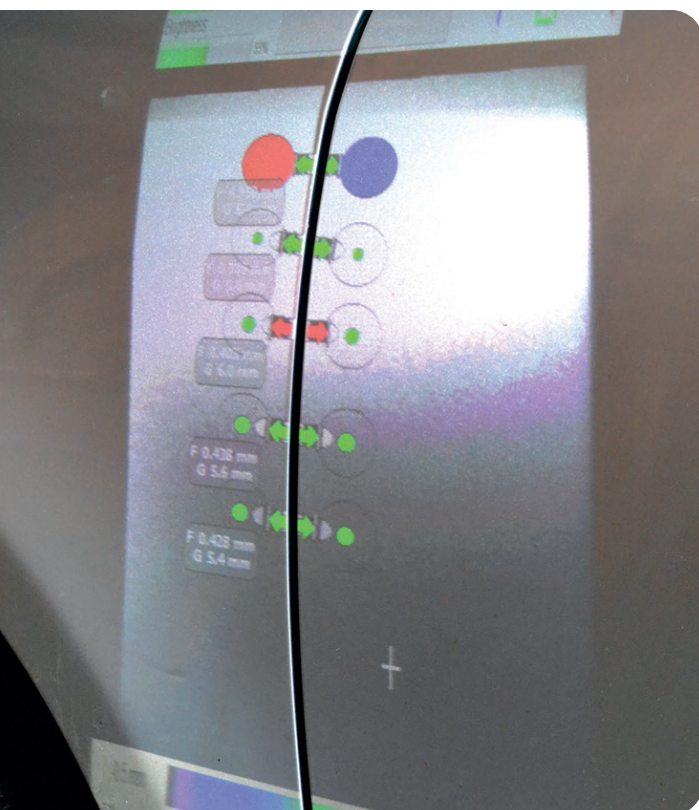
Step Inspection with real-time Visual Feedback



WHAT IS IT?

stepCHECK is a revolutionary 3D surface inspection system that delivers panel flushness analysis quickly and seamlessly.

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HOW DOES IT WORK?

stepCHECK delivers accurate 3D measurement and instant analysis of step height, parallelism, and flushness finish between adjacent surfaces. With a single click, stepCHECK measures the relative position between multiple neighboring surfaces. “Go/No-go” results are instantly visualized on the measured surface, using augmented reality.

THE MEASUREMENT SURFACE BECOMES THE SCREEN™

The specifically designed to solve fit/finish challenges in the manufacturing environment, stepCHECK boosts inspection efficiency by measuring numerous points along adjacent surfaces, in a single scan! It is a fully self-contained unit and completely tetherless – no external computer, no external monitor and no cumbersome power supply cables. stepCHECK is part of a family of truly portable, yet powerful measurement tools from 8tree.

Flushness, Parallelism, Line Profile, Flatness, and more!

PERFORMANCE OVERVIEW OF stepCHECK

Field of View (FoV)		18 x 32 cm / 7 x 12.5"	
Accuracy	Flush (height) Gap (lateral)	$\pm 50 \mu\text{m}$ / 0.02" $\pm 200 \mu\text{m}$ / 0.008"	(at 95% (2σ) confidence interval)
Acquisition Time		approx. 0.1 sec	
Measurement Speed		as fast as 2 sec	
Battery Life		up to 4.5 hours (still usable while charging)	
Nominal Working Distance		50 \pm 5 cm / 20 \pm 2"	
Weight		4 kg / 8.8 lbs (with integrated CPU and battery)	
Dimensions		35.4 x 30.0 x 9.0 cm / 13.9 x 11.8 x 3.6"	

stepCHECK SETS A NEW INDUSTRY BENCHMARK FOR

- ✓ **Speed:** 10x faster than current industry standard
- ✓ **Portability:** Lightweight, compact, battery-powered, integrated CPU. Easy to handle on the production floor.
- ✓ **Ease of Use:** Real-time visual feedback and intuitive user interface
- ✓ **Flexibility:** Easily customized to different tolerance needs Measurement results recorded in different formats Scalable architecture enables new product configurations



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