ISV EHR®
VISION TECHNOLOGIES

AutoGap & HandyGap

High Precision Objective Results Full Traceability

Gap & Flush Measurement Solution



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Gap & Flush Measurement Solution

OEM: Body Shop (adjustment line); Final Assembly (inspection line)





ISV gap and flush measurement systems replace feeler gauges and manual inspection with objective, laser-based measurement. AutoGap measures gap and flush fully automatically with robot-guided dual sensors in the line; HandyGap is a standalone handheld device for rework, audit and spot checks. Both use high-quality laser images and a range of measurement algorithms to reflect the actual condition of every measuring point and store all data for traceability and process improvement.

Solution Advantages

01 High Accuracy

Measurement accuracy up to ±0.05 mm with a repeatability of ±0.02 mm.

02 Dual Sensor Design

Wider laser coverage captures the inner shape of hemmed gaps; separate exposures ensure image quality on every material and color.

03 Mixed-Line Capability

Color code from the PLC adjusts exposure automatically; new models need no additional hardware. Offline, stop-and-go and moving lines.

04 Demanding Surfaces

Reliable results on parts with high color difference, transparent parts such as headlights and highly reflective surfaces.

System Parameters

	AutoGap (automatic)	HandyGap (handheld)
Measurable gap types	Hemmed, bevel, sharp-edge, T-type, H-type, parallel and small gaps	Hemmed, bevel, sharp-edge, T-type, H-type, parallel and small gaps
Accuracy	±0.05 mm	±0.05 mm
Repeatability	±0.02 mm	±0.02 mm
Measuring range	Gap 0.5–20 mm, flush 0–20 mm	Gap 0.5–20 mm, flush 0–20 mm
Measuring time	≤ 0.5 s per measurement	≤ 1 s per measurement
Laser	Blue-violet	—
Operating temperature	0 °C to 45 °C	0 °C to 50 °C
Operation	Robot-guided, results on large display	4.3-inch touch screen, wired or wireless, standalone

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