QC100-EMS

QC100-EMS INSPECTION, MEASUREMENT AND CALIBRATION SYSTEM

THE **QC100-EMS** IS A DEDICATED STENCIL AOI, MEASUREMENT AND CALIBRATION SYSTEM FOR EMS PROVIDERS.

The system measures and detects issues that could impact print quality, including clogged apertures, solder paste and debris. High-precision stages and advanced image processing algorithms provide full inspection of aperture attributes, checking for presence, dimension, position and area.

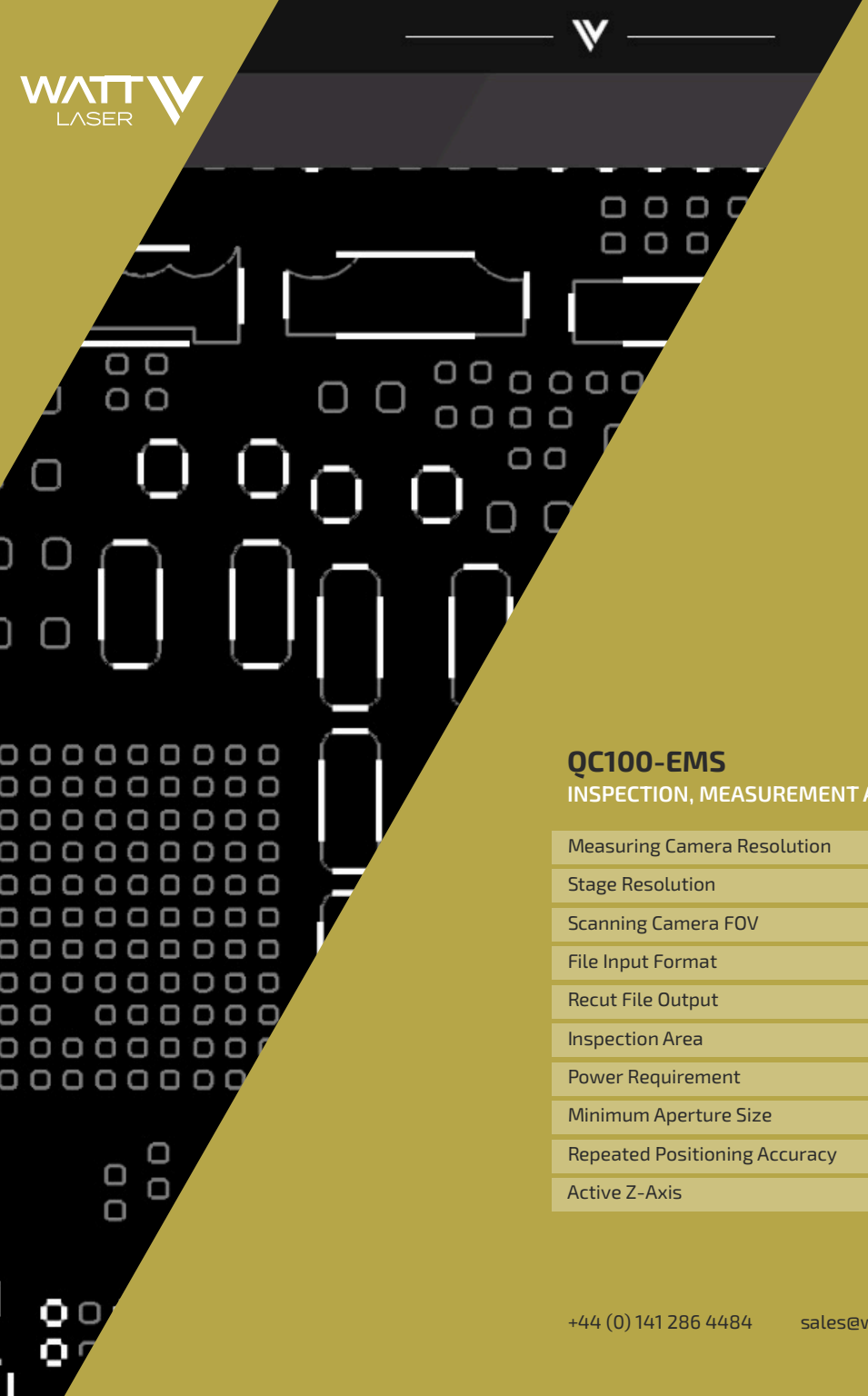
At goods inwards inspection, the QC100-EMS performs a comprehensive stencil verification. It assigns test data to a stencil identifier for traceability and establishing a baseline for future comparisons.

The system boasts advanced capabilities in monitoring the lifespan of stencils based on usage. This enables proactive maintenance and replacement, anticipating and preventing printing issues causing production downtime and scrap.

The QC100-EMS can measure PCBs against the original data, meticulously checking for deviations in pad positioning. This generates Gerber data, adjusted to fit the PCB, enabling manufacture of the optimised stencil. This data can also be used downstream to improve process capability.

The system features a high-magnification telecentric lens, Renishaw 1-micron scales and Watt Laser's proprietary inspection and measurement software.

WATT LASER



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Measuring Camera Resolution	0.9µm
Stage Resolution	1µm
Scanning Camera FOV	23 x 16mm
File Input Format	Gerber (RS-274X)
Recut File Output	Gerber, CNC
Inspection Area	800 x 750mm
Power Requirement	230V/110V
Minimum Aperture Size	30µm
Repeated Positioning Accuracy	±2µm
Active Z-Axis	

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