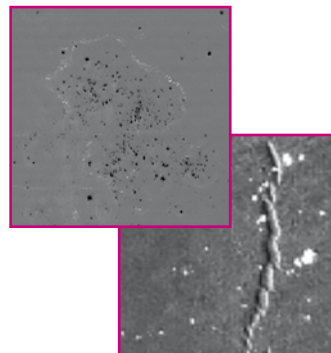


As easy as 1–2–3: master all quality tasks with a single system

Defects ¹

- Particles (metal, active material, and others)
- Pinholes, thin spots, drops
- Delaminations, peels
- Streaks, cracks, scratches
- Wrinkles, folds, oxidation
- Edge burr, gel/oil stains

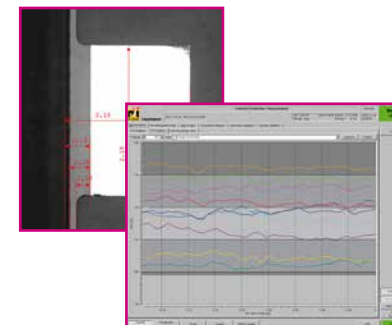
- Reliable detection of all defects (particles $\geq 10 \mu\text{m}$)
- Inspection width up to 12 m
- Inspection speed up to 500 m/min



Measurement ²

- Intermittent/stripey coating
- Top/bottom alignment
- Sheets, tabs, coating
- Dimension and position
- ...and many more

- Highest resolution
- Unparalleled precision (e.g. through lens distortion compensation)
- Integrated calibration for easy qualification and traceability

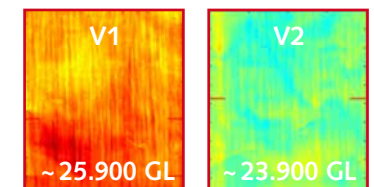


Material Properties ³

- Roughness/homogeneity
- Coating thickness (e.g. BSF)
- Porosity
- Streakiness
- ... and many more

- Monitoring of entire material surface
- Highest sensitivity (100 nm range for BSF coating)
- Thanks to highly dynamic, proprietary cameras and illuminations

+3.2 μm coating +4.1 μm coating



Your benefits from
Dr. Schenk's unique optical
battery inspection solutions

EasyInspect

Control your entire production workflow with a single system.



EasyInspect monitors these production steps for you:



MIDA: see more with multiple views

- Reliable detection of smallest defects and deviations with MIDA (Multiple Image Defect Analysis)
- Detailed defect information via multiple views
- Dependable product qualification for maximum profit



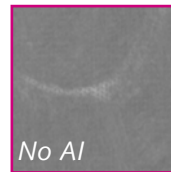
Raw image



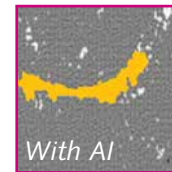
With MIDA

AI Processing for high-quality results

- Multi-step AI processing: the best AI for the specific job
- Real-time for up to 500 m/min: with AI pre-processing inside the camera
- Better detection and classification with minimal effort



No AI



With AI

Data management and connectivity

- Open, central database to store all monitoring data
- Flexible interfacing with MES, SCADA, ERP systems
- Comprehensive statistics analysis

78.535	78.538	78.553
78.595	78.576	78.394
78.347	78.406	78.361
72.146	71.933	72.092
73.128	73.119	73.360
72.774	72.933	-0.499

Dr. Schenk provides you:

- Let our expertise work for you: thousands of battery inspection systems installed worldwide
- Continuous investment in seasoned R&D and support staff for customer support
- Reliable 100% quality with minimal effort
- Fast production ramp-up and tool-to-tool matching
- Hardware and software, application & service support and consulting from one source

Your advantages:

- Easy integration: small footprint required
- Be that decisive step ahead of the competition
- Local and competent support world-wide
- Reduce CapEx: start small, expand later
- Low OpEx: less manpower, fewer experts required
- Future-proof, adapts to your demands

