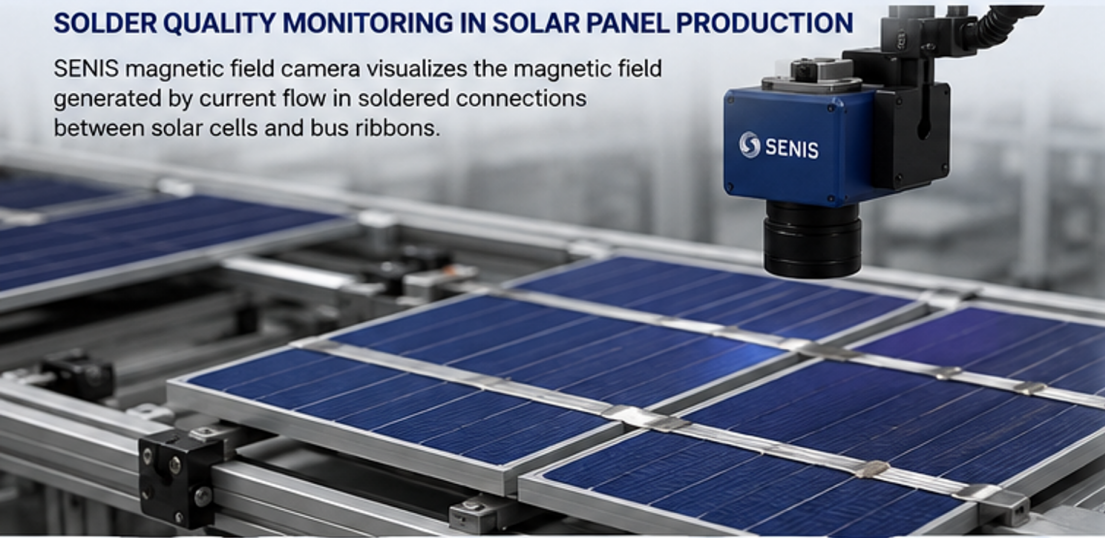


SENIS MAGNETIC FIELD CAMERA – QUALITY ASSURANCE IN PRODUCTION

Real-time visualization of current flow – Detect bad or insufficient solder and welds while powered

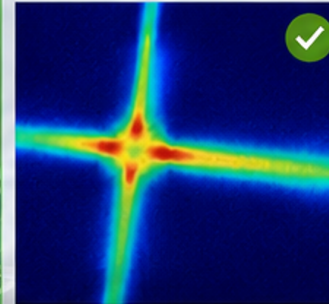
SOLDER QUALITY MONITORING IN SOLAR PANEL PRODUCTION

SENIS magnetic field camera visualizes the magnetic field generated by current flow in soldered connections between solar cells and bus ribbons.



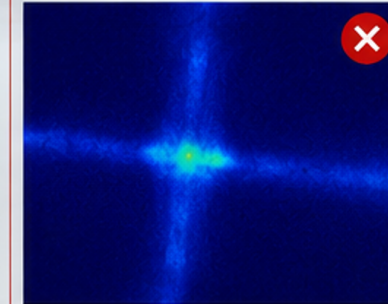
GOOD SOLDER JOINT

Strong magnetic field –
Good current flow



BAD / INSUFFICIENT SOLDER JOINT

Weak or disturbed magnetic field –
Poor current flow



ADVANTAGES

- 100% inline inspection
- Detects hidden defects
- Works while powered
- Improves yield and long-term reliability

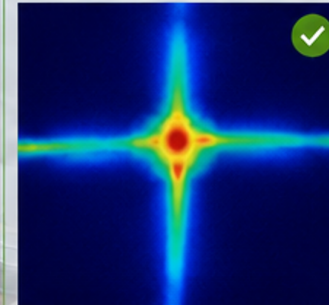
WELDING PROCESS MONITORING FOR EV BUS BAR CONNECTIONS

SENIS magnetic field camera detects weld defects such as lack of fusion, porosity or insufficient contact in real time – while current is flowing.



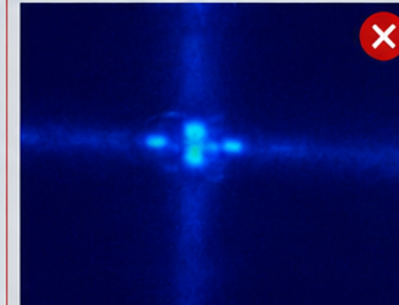
GOOD WELD

Strong magnetic field –
Low resistance connection



BAD / INSUFFICIENT WELD

Weak or uneven magnetic field –
High resistance risk



APPLICATION BENEFITS

- Ensures electrical safety
- Prevents field failures
- Supports process optimization
- Enables zero-defect manufacturing

HOW IT WORKS

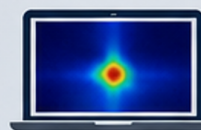
Current flowing through connections generates magnetic fields.



CURRENT FLOW
Through connection



SENIS CAMERA
Captures magnetic field



REAL-TIME VISUALIZATION
And analysis



PASS / FAIL DECISION
Inline quality assurance

SENIS
magnetic & current measurement

See the invisible.
Assure the quality.
Power the future.