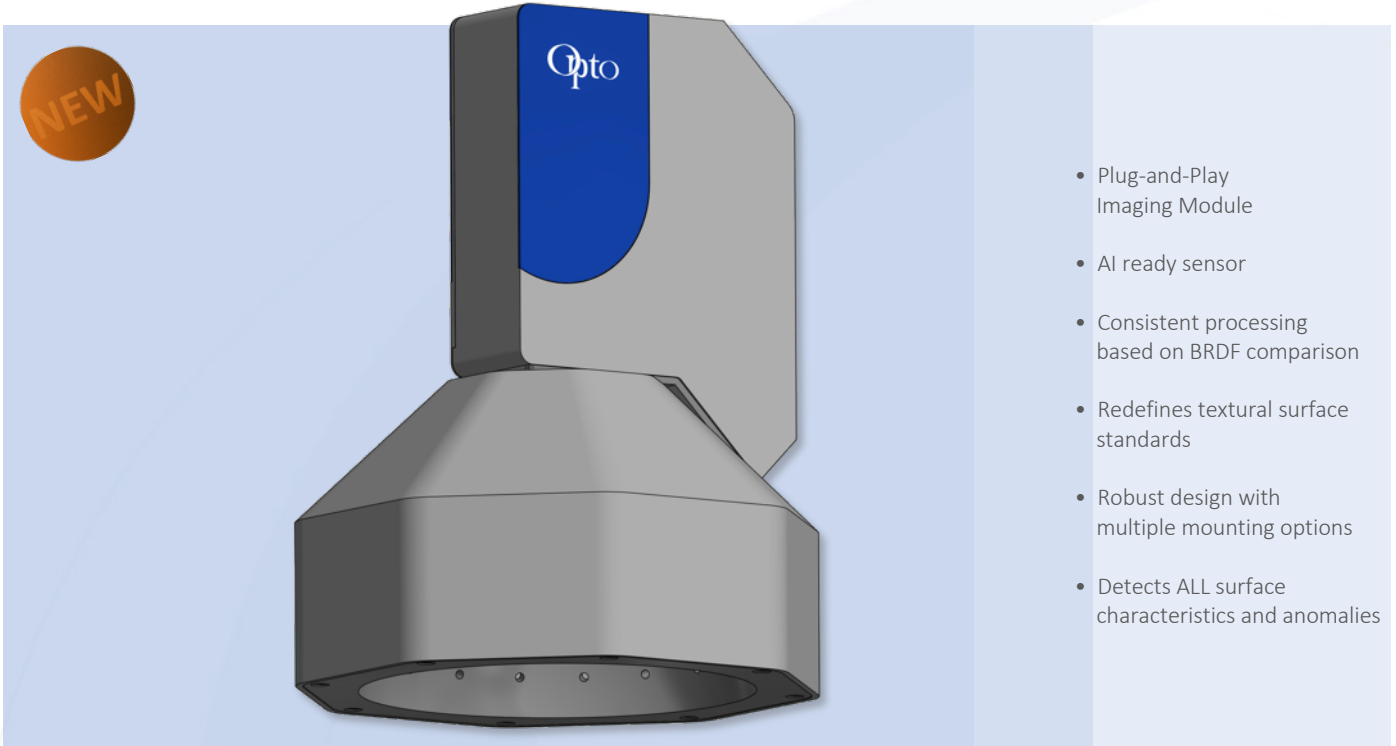


IM•solino™

solino digitises the surface appearance for intuitive perception



- Plug-and-Play Imaging Module
- AI ready sensor
- Consistent processing based on BRDF comparison
- Redefines textural surface standards
- Robust design with multiple mounting options
- Detects ALL surface characteristics and anomalies

solino analyses the visual appearance of objects

Applications

- Predictive maintenance
- Quality inspection and assurance
- Manufacturing process automation
- Easy inspection of staining, scratches, dents, cracks, etc.
- Integrated anomaly detection

Benefits

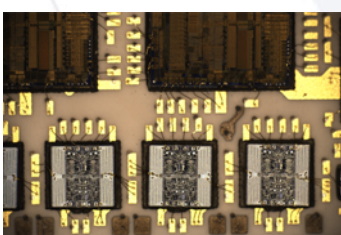
- Easy access for new vision users
- **solino** finds defects beyond the limits of human perception
- Detection of roughness, reflectivity, inclination
- Eliminates reflections on metallic surfaces
- 100% less returning 100% QC and process automation possible

Specification

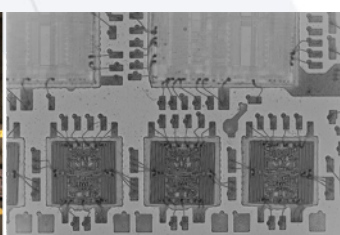
FoV [mm]	10 x 10 25 x 25 50 x 50
Working distance [mm]	5
Camera	20 MP area scan / USB
Illumination	64 LED dome incl. controller
Dimensions [mm]	206 x 280.6 x 206
Software	OptoViewer with solino-Plugin

Article-No.

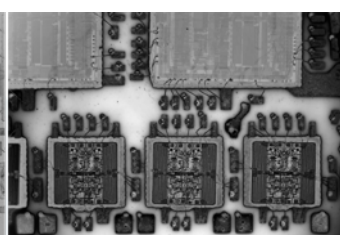
10 x 10	IS10-04818CU6101
25 x 25	IS10-00418CU6101
50 x 50	IS10-00218CU6101
CE / RoHS / WEEE-Reg.-No. DE 68564667	



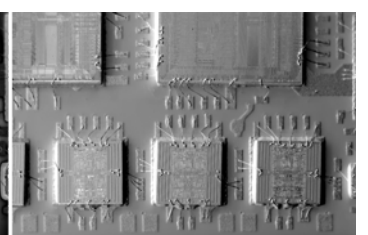
Original



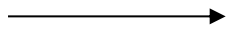
solino



solino

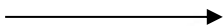


solino



Traditional Imaging:

- Reflections due to ambient effects
- Too many aspects that distracts from the real anomaly
- Only 80 % assurance that an anomaly is present in the image



solino Imaging:

- Robust against external light effects
- **solino** algorithm highlight always anomaly
- BRDF processing with an RTI approach guarantees 100% repeatability

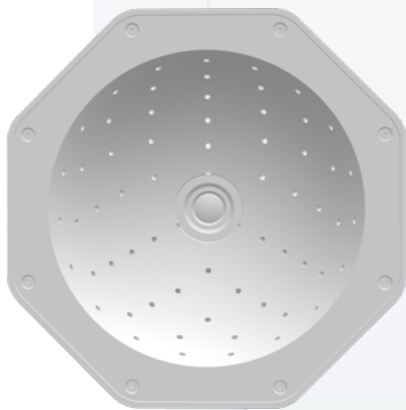
solino Image processing

solino is based on computational methods to add immediately values to evaluate the quality of your process and product.

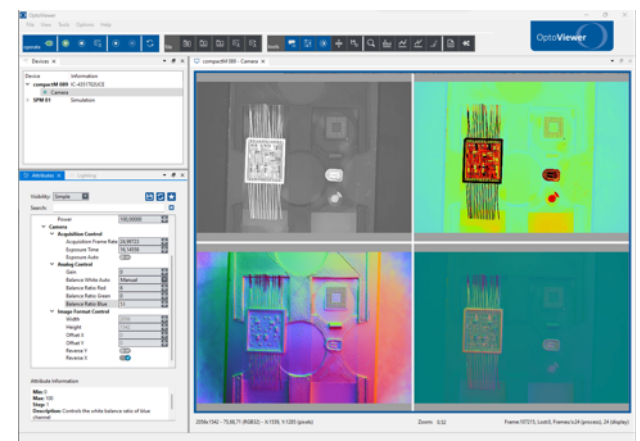
solino consider surface appearance as a combination of light and product parameters such as: material, shape and hue.

solino Image Acquisition

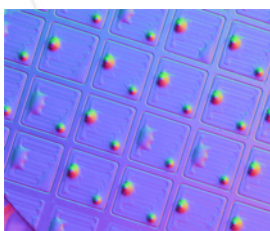
solino is based on images with a direct correlation of the light sources to the camera. In the **solino** Imaging Module we choose a Photometric Stereo Image acquisition with 64 LED's mounted inside a dome with known intensity features and location.



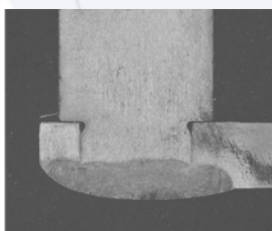
64 LED dome structure



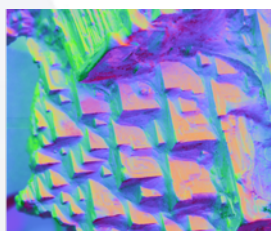
OptoViewer Interface



Semiconductor balls



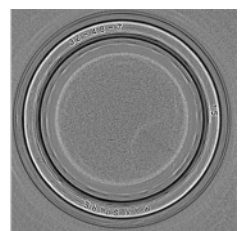
Weld



Metal structure



Watch mechanism



Seal - black number on black surface