



WG-GAT Waveguide Grating Analysis Tool

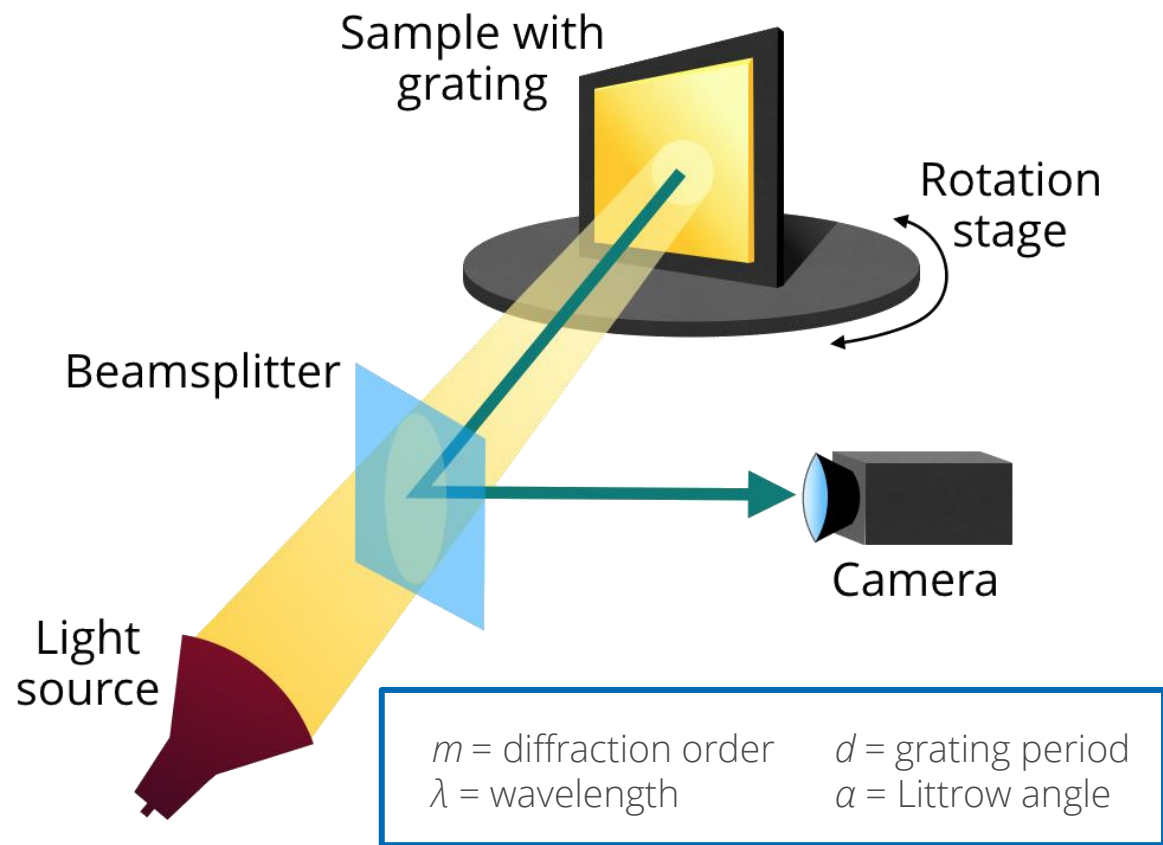
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Total Process Ownership for AR Optical Metrology

- ✓ 18 years of expertise in test automation, optical metrology
- ✓ Off-the-shelf products and tailored test solutions
- ✓ 14000+ delivered systems
- ✓ 450+ true tech geeks worldwide
- ✓ 18 support and service teams on 3 continents
- ✓ Working with all major brands including Google, Nreal, Intel, AMD, Qualcomm, Samsung, Lenovo, Asus, Dispelix, Pico, Sunny Optical
- ✓ HQ and own manufacturing in Finland, EU
- ✓ Engineering offices in Cupertino, CA and Redmond, WA
- ✓ Engineering and manufacturing facilities in APAC
- ✓ Global market leader in AR and Touch display optical metrology and robot-assisted test & measurement systems



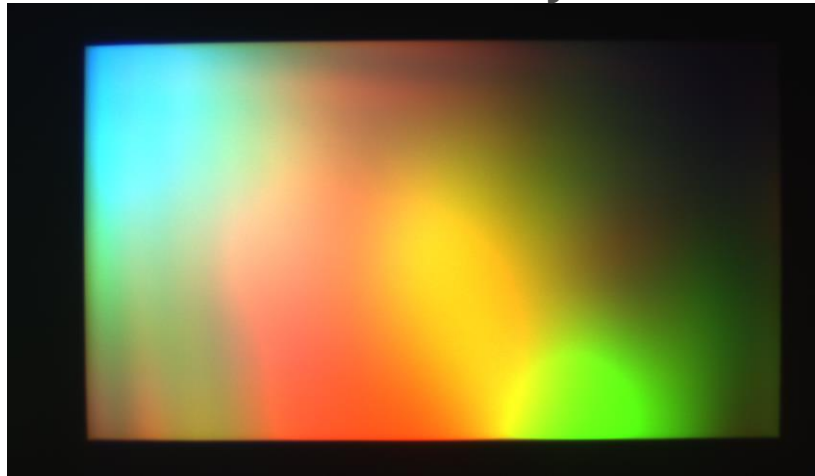


WG-GAT - Waveguide Grating Analysis Tool

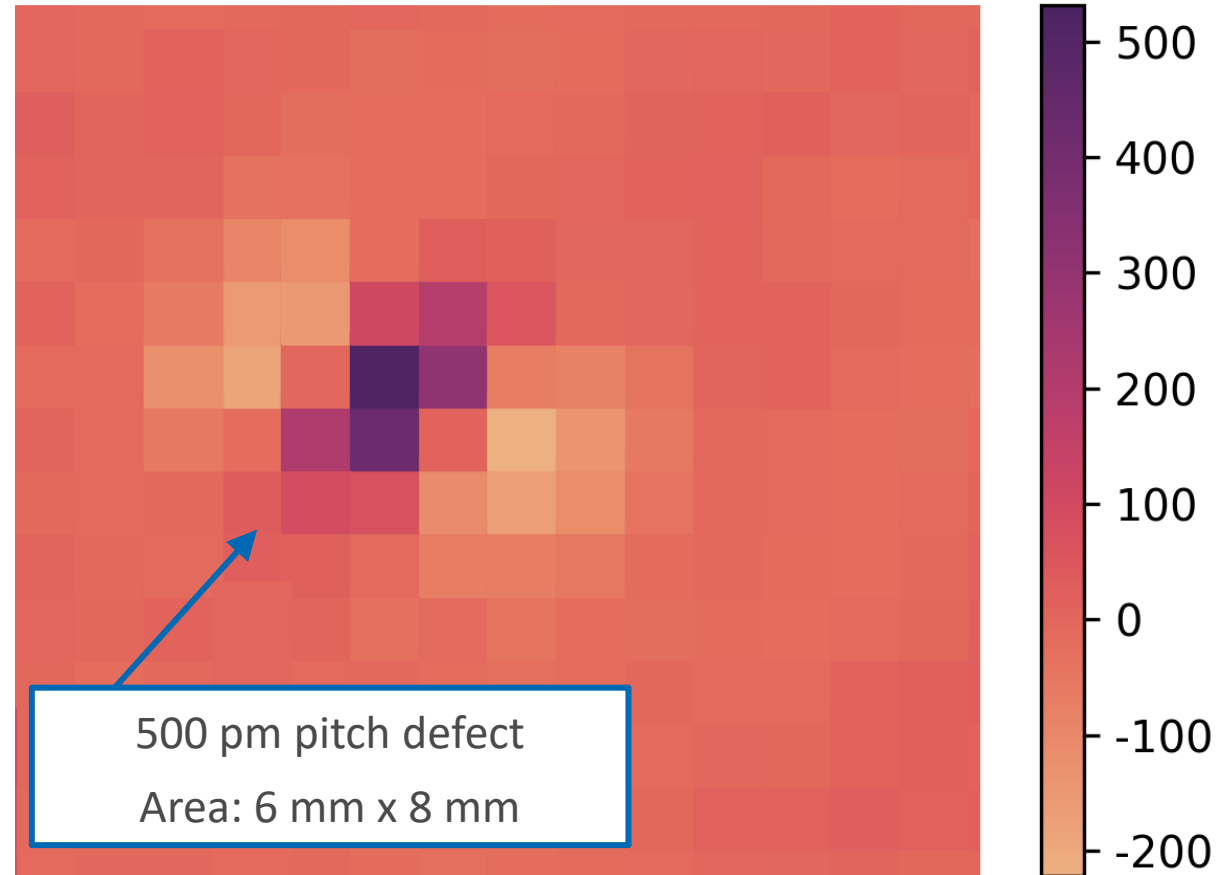
Expectation



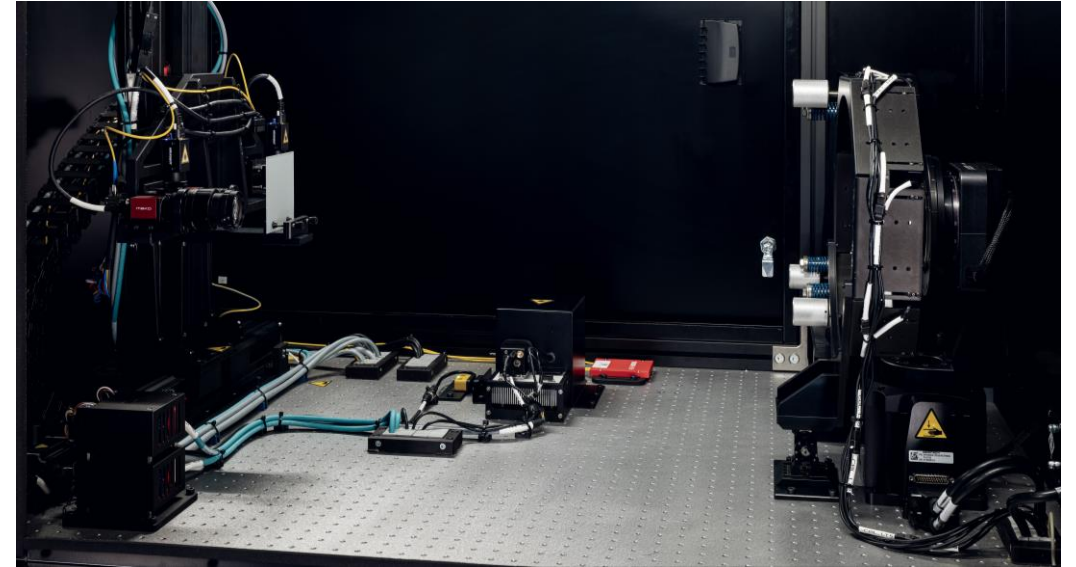
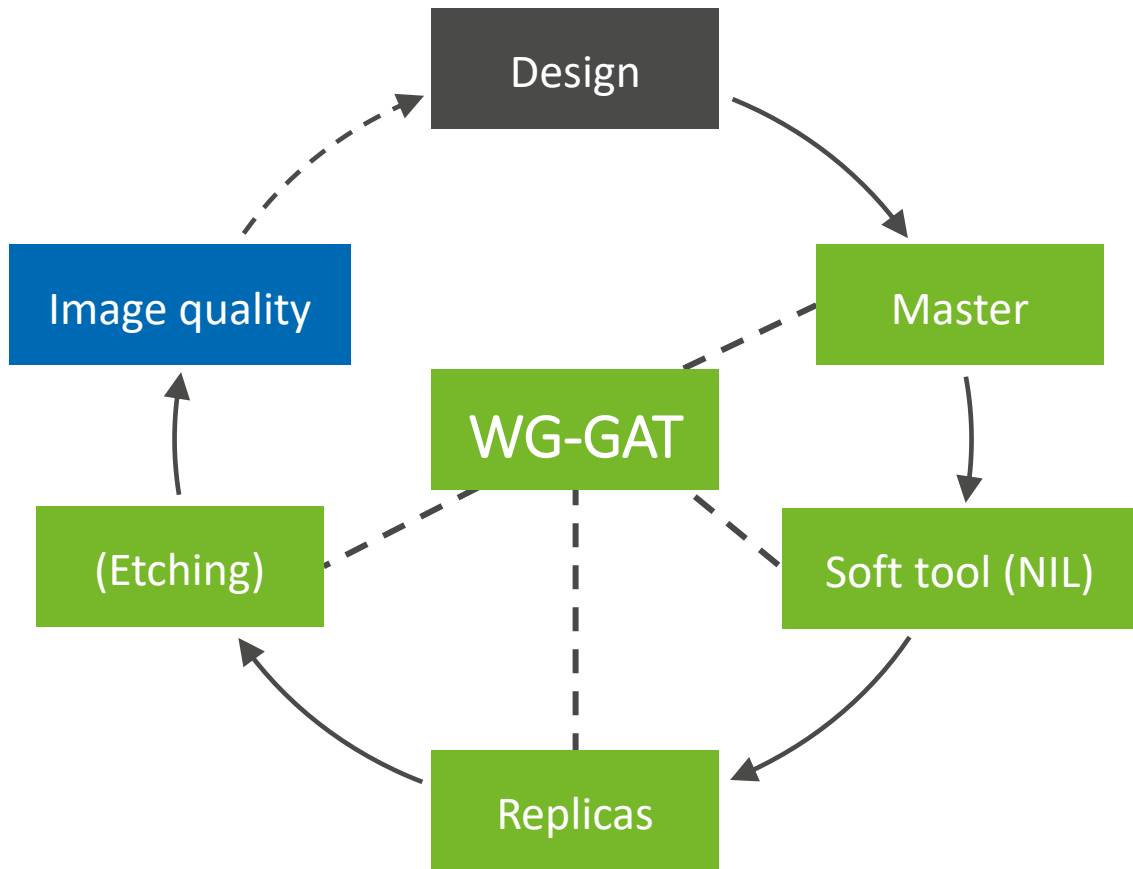
Worst Case Reality



Grating pitch heatmap [pm]



Analyzing the gratings:
Image Quality and Defect Detection



Resolution < 0.5 pm
 Repeatability < 20 pm
 Accuracy ± 50 pm

“Our performance is verified by VTT MIKES, the National Metrology Institute of Finland”

Analyzing the gratings:
 Manufacturing process improvement



Thank you!

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