

What is QUANTIZE

QUANTIZ© is a surface analysis system optimized for the evaluation of coating damage.

It is a combination of hardware and software for image creation and evaluation.

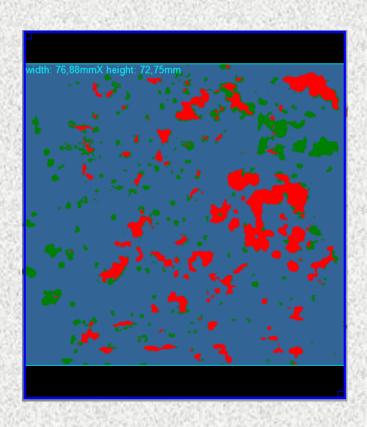
No additional programming effort is necessary. All analyses are evaluated according to the respective standard. The operation is optimized with regard to the typical tests (delamination at the scribe, filiform corrosion, stone chip test, blistering, delamination at the edge, flange corrosion, cross-cut, adhesion...)

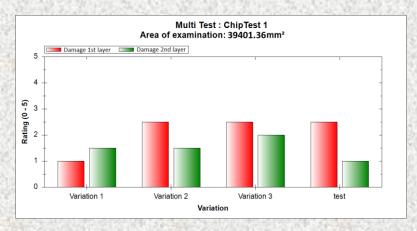


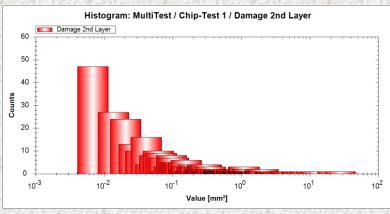


Evaluation options - examples QUANTIZE

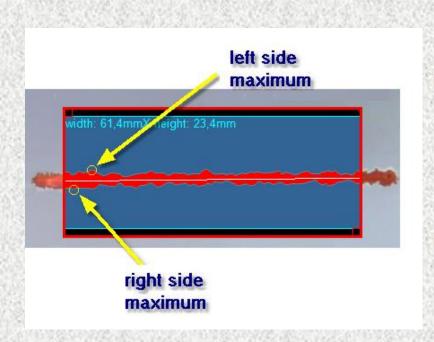
Multi-Chip Test; ISO 20567-1, EN ISO 21227-1, EN ISO 21227-2, SAE J400

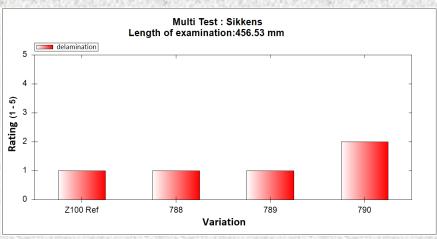


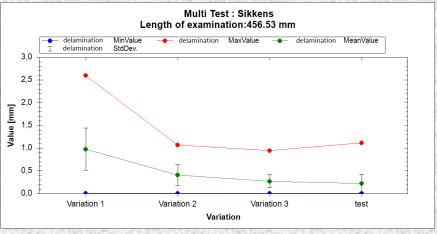




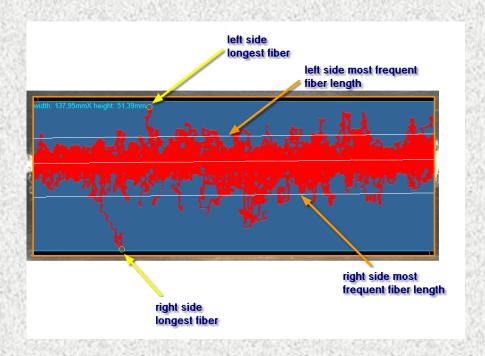
Scribe Test; EN ISO 4628-8, EN ISO 21227-1, EN ISO 21227-3







Filiform Corrosion; EN ISO 4628-10, EN ISO 21227-1, EN ISO 21227-4

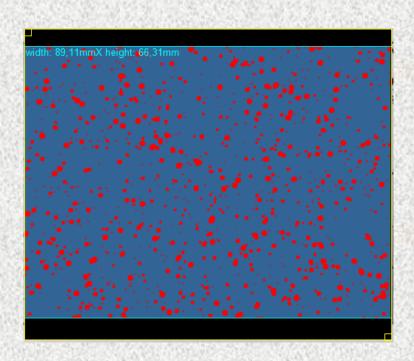


Determined quantities

- Longest fiber left/right/averaged
- Most common fiber length left/right/averaged
- Medium filiform width
- Histogram of the fiberlengths
- Characteristic value according to ISO 4628-10
 e.g.: L5/M3 → longest thread 5mm,
 most common fiber length 3mm
- Note: The Quantiz Recording Unit provides brightfield illumination for non-destructive evaluation of filiform corrosion

Evaluation options - examples QUANTIZE

Blistering; EN ISO 4628-2, EN ISO 21227-1



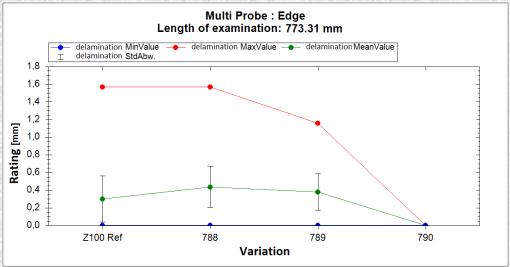
Determined quantities

- Medium blister size
- Smallest, largest blister
- Area fraction of blisters [%]
- Histogram of blisters
- Characteristic value according to ISO 4628-2 e.g.: 2(S3) → Quantity of blisters 2, size 3
- Note: The Quantiz Recording Unit provides brightfield illumination for Non-destructive evaluation of blistering

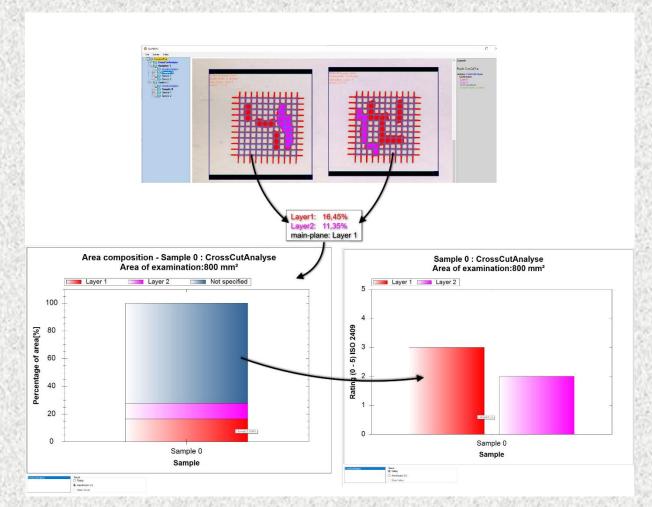
Delamination at the cut edge; EN ISO 21227-1





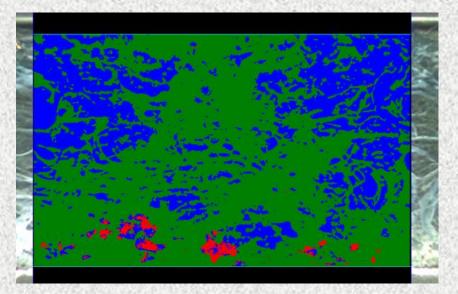


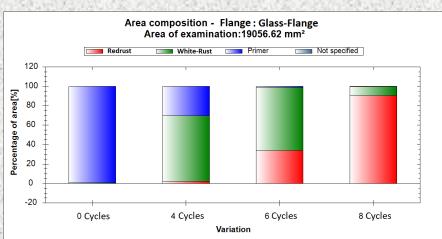
Cross cut analysis; EN ISO 2409



General evaluation of surface area; EN ISO 21227-1

Evaluation/differentiation of red and white rust





Further possibilities for image analysis of surfaces based on EN ISO 21227-1

- Assessment of the degree of cracking EN ISO 4628-4
- Evaluation of the degree of exfoliation EN ISO 4628-5
- Cross-cut test EN ISO 2409

If your requirements are not covered by our system, please contact us.

How does QUARTIZ[©] fit into your workflow?

Sample preparation



Typical process of an evaluation with QUANTIZE

Salt spray test, VDA-test, ...



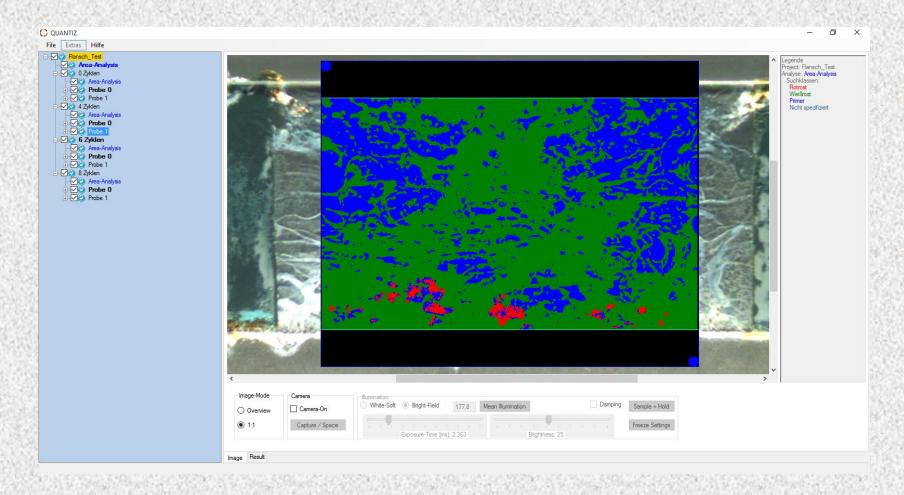
Typical process of an evaluation with QUANTIZE

Capture your samples with the Quantiz-Hardware



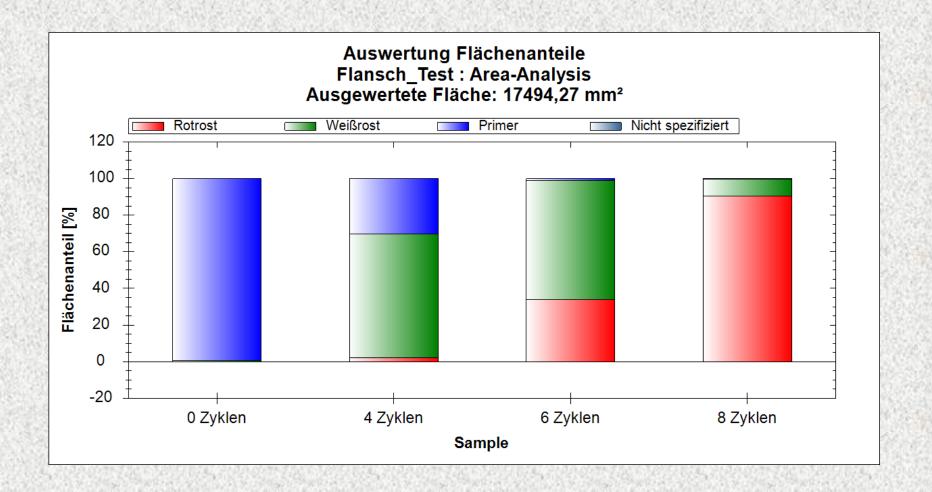
Typical process of an evaluation with

Evaluation with the Quantiz-Software



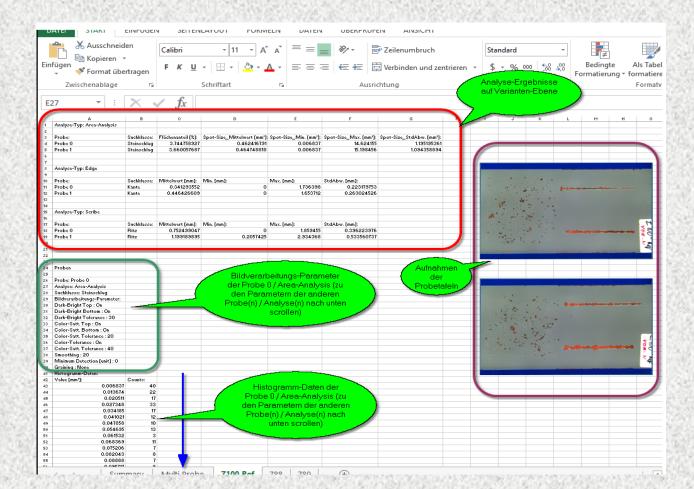
Typical process of an evaluation with QUARTEZ

Assessment of quantitative results

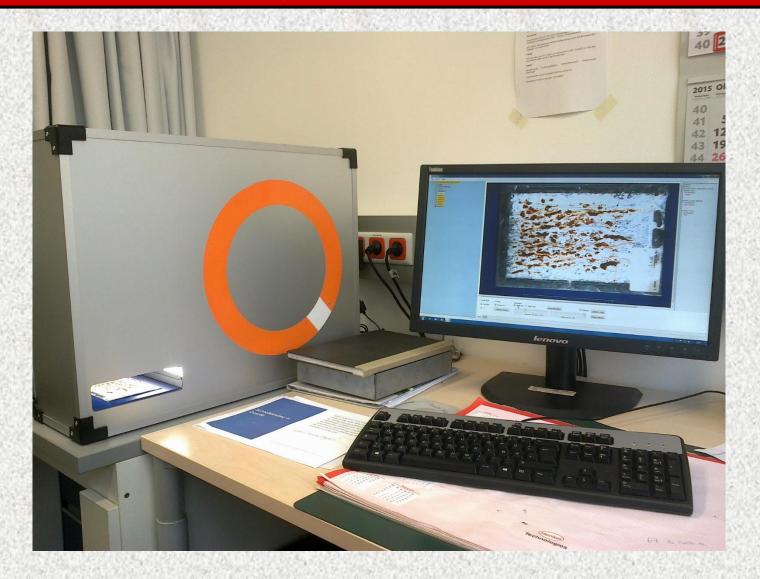


Typical process of an evaluation with

Export of the results, all images and evaluation parameters to an Excel file

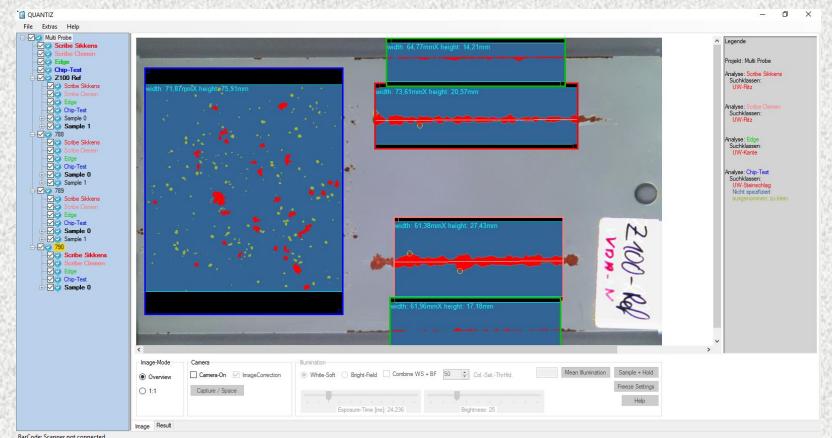


Hardware QUANTIZE



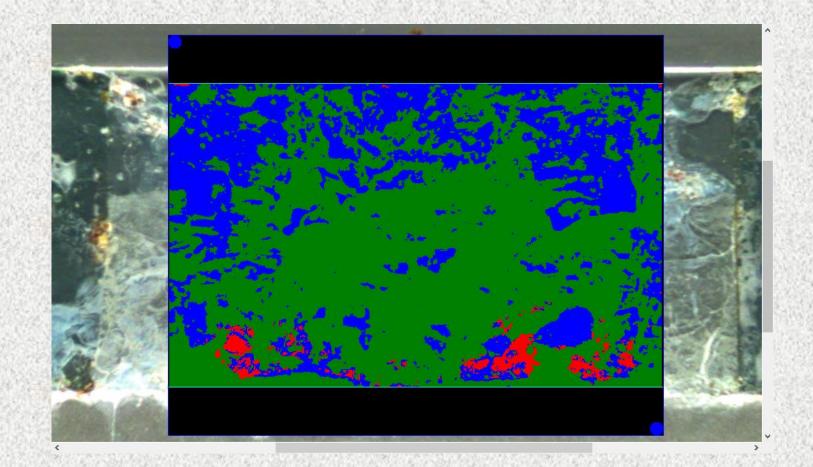
Hardware QUANTIZ®

Capturing samples with white soft illumination
 For the evaluation of delamination at the scribe, delamination at the edges, chip test, ...



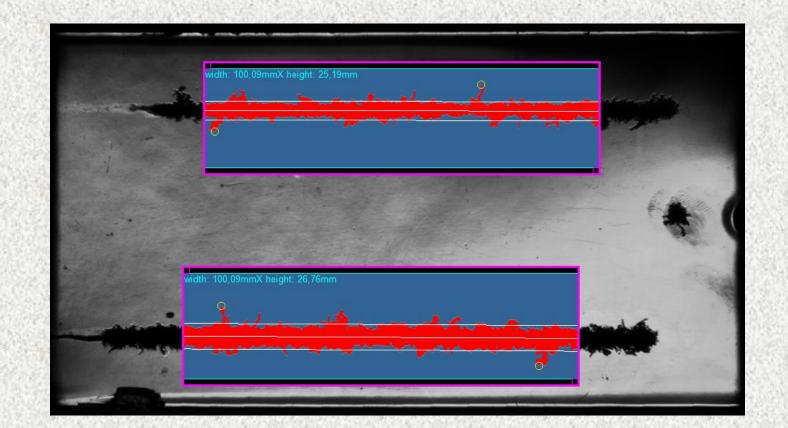
Hardware QUANTIZ[©]

- Capturing samples with white soft illumination
 - ... Flange corrosion, addhesive test, ...



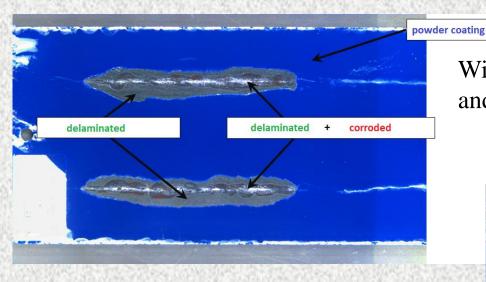
Hardware QUARTE

Capturing samples with bright-field illumination
 Non-destructive evaluation of filiform corrosion, blistering, delamination at the scribe, ...

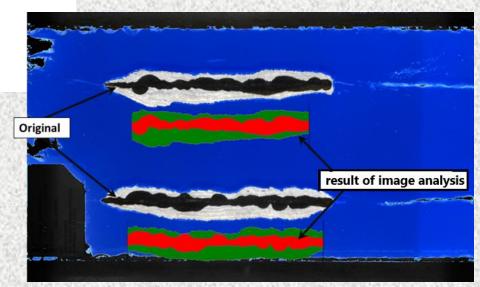


Hardware QUANTIZ[©]

 Capturing images with combined illumination for special purposes



With combined illumination, the delaminated and rusted areas may be evaluated separately



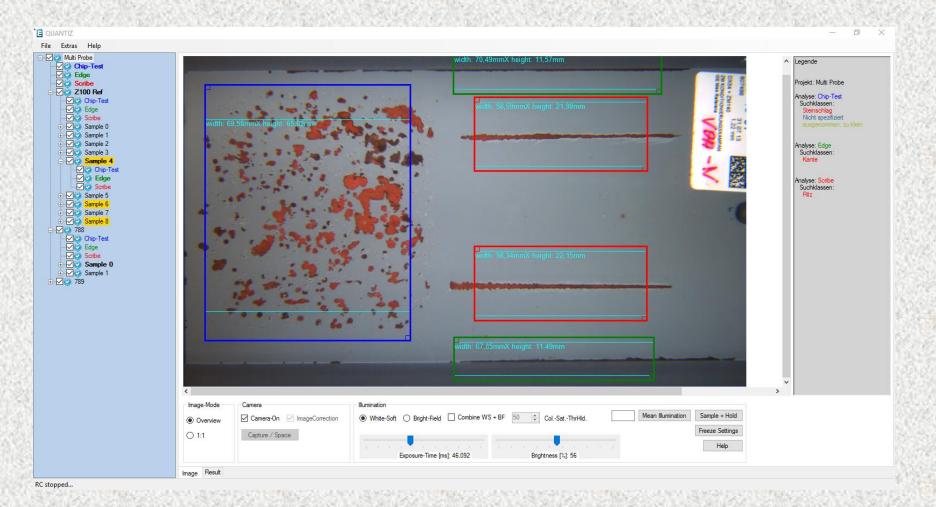
Hardware QUANTIZ-LIGHT®

- If brightfield illumination is not required, there is the Quantiz-Light variant
 - Reduced price
 - Evaluation of test panels without restriction in size
 - Optional:
 - Evaluation of components
 - Evaluation directly on car body

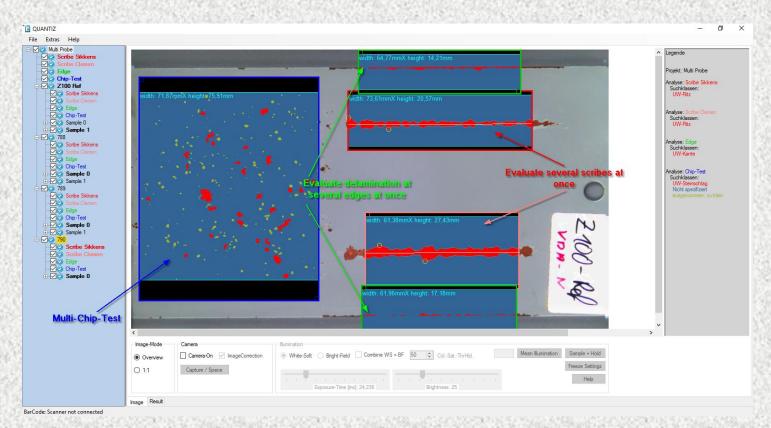
Hardware QUANTIZ / QUANTIZ-LIGHT®

- Optional: BarCode functionality
 - Control of the evaluation process via datamatrix-code





- Multi-Analysis
 - Save space in your weathering chambers
 - Save time with combined evaluation

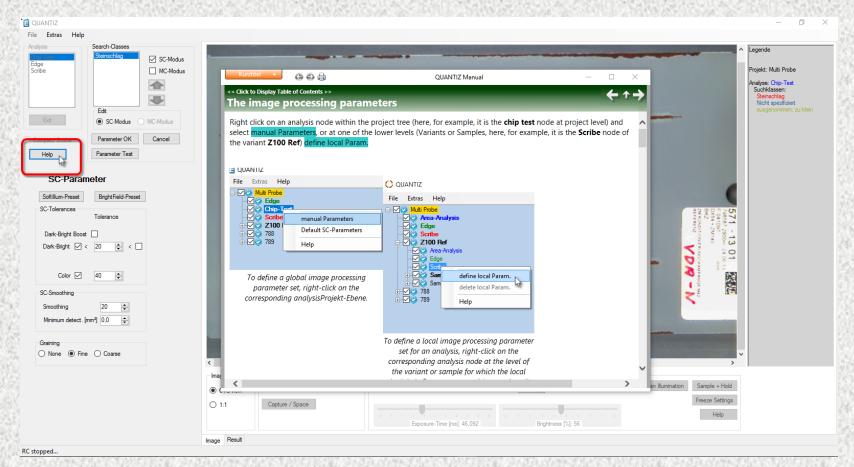


- Quantiz is a taylor-made solution for the evaluation of coating damage
 - No additional programming required
 - Optimized processes in respect of the typical tests (delamination at the scribe, filiform corrosion, chip-test, blistering, ...)
- The performance of multi-processor PCs is fully exploited
 - Evaluation of entire projects within a few seconds

- Result files contain the images, the quantitative results and all evaluation parameters
 - Picture documentation of the current rehearsal status
 - All relevant data compactly together
- Settings/parameters can be saved and used as templates for future projects.
 - Standardized evaluation
 - Even faster creation of projects

- Easy-to-use image processing with automatic threshold determination
- Setting the parameters for image processing requires minimal user interaction, and often no intervention is required at all.

Context-sensitive help



- Feature-limited software at reduced prices
 - If you only need specific analyses, buy the software package that suits your needs.
- Annual Licenses
 - Annual licenses include not only technical support and receiving all updates, but also receiving all upgrades. This means that your system is always up to date and offers every functionality without restrictions.

Advantages of QUANTIZE

Compared to pure software solutions with image processing and evaluation that are as general as possible, Quantiz offers many advantages as a specialized overall system

- The control of the hardware is fully integrated into the software No back and forth between recording and evaluation
- The images are immediately integrated into the evaluation software No cumbersome image import

Advantages of QUARTIZE

- Hardware is fully calibrated upon delivery
 No calibration required by the user (pixels/mm, geometric distortion, ...)
- Compact hardware compared to repro units Advantage in confined spaces
- Image acquisition and evaluation parameters...
 - can be saved as templates to serve as a basis to create new projects (reproducibility, standardization)
 - are also stored in the result and thus complete the documentation of the analyses carried out

Advantages of QUARTIZE

- In addition to soft white light, the hardware also offers brightfield illumination, thus enabling
 - a non-destructive evaluation of e.g.
 - Filiform corrosion
 - Infiltration at the Ritz
 - Blistering
 - •

and a particularly sensitive examination of surfaces, e.g.

- Investigation of "Anti-Fingerprint" Systems
- Sensitive detection of incipient white rust on galvanized sample plates

Advantages of QUANTIZE

- 5 MP Matrix Camera
 Compared to line scan cameras, matrix cameras offer a live image with a clear advantage in sample handling
- You buy hardware and software from the same provider a significant simplification in support issues

QUARTIZ[©] " Can I use this at all?!"

- Get in touch with us
 Describe your needs. We not only want to cover the standard, but
 also your special case.
- Send us typical samples
 We will evaluate the samples according to your specifications and send you the results together with your samples.
 The samples provided by you will of course be treated confidentially by us.