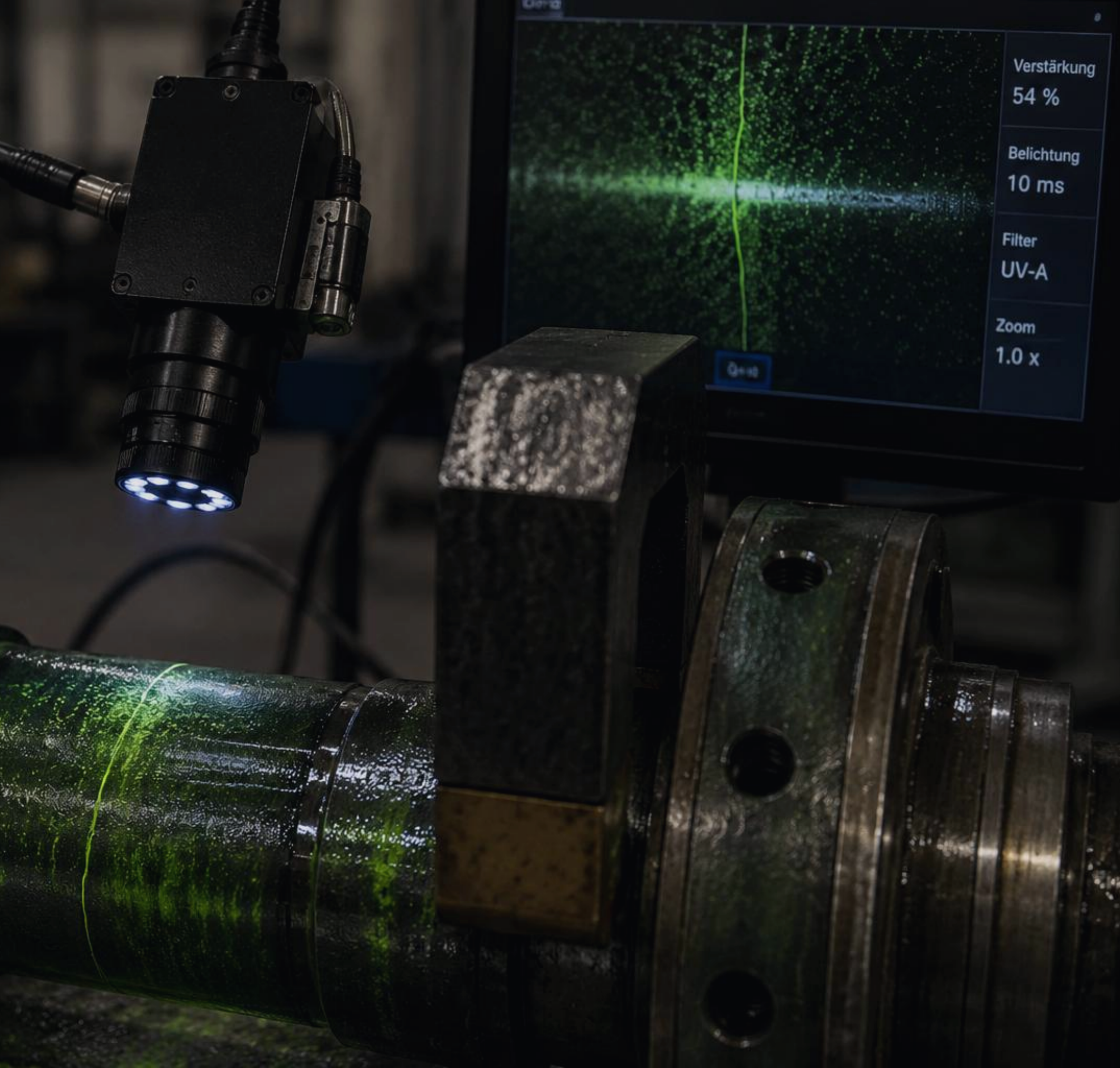


AI-Powered Crack Detection

with Uniflux crack detection systems





Uniflux

Ihr Partner bei der
zerstörungsfreien Werkstoffprüfung

AI-powered crack detection from Uniflux

Automated crack inspection
for maximum process reliability.

Uniflux combines modern crack detection
systems
with intelligent AI image evaluation and offers
complete solutions
for automated quality control
in industrial production.

Technology Package

A fully integrated total solution from Uniflux.

Camera Systems & Lighting

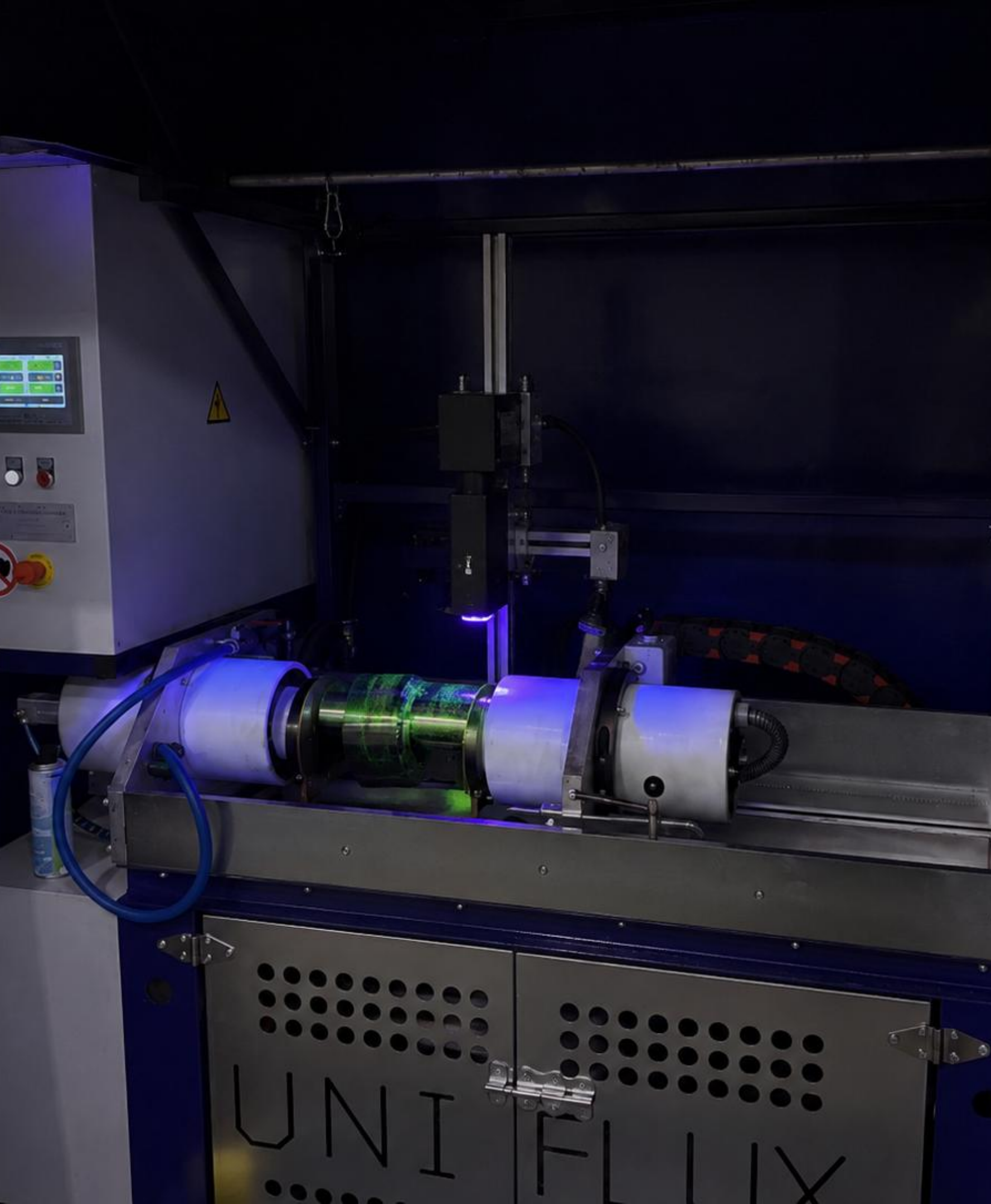
Optimally matched industrial cameras, UV illumination and optical systems ensure reliable detection of even the smallest crack indications.

AI-based image evaluation

Intelligent algorithms detect cracks, reliably distinguish between relevant displays and interference signals, and support a reproducible quality assessment.

Plant integration

Seamless integration of image processing into existing or new Uniflux crack detection systems including PLC, HMI and database interfaces.



AI detects cracks reliably and reproducibly

The intelligent image evaluation automatically analyzes every test image and reliably detects even the smallest crack indications.

The combination of optimized lighting, high-resolution camera technology and AI-supported evaluation reliably detects and documents relevant errors.

The AI evaluates each image within a few milliseconds and supports objective, reproducible quality control – regardless of operator influences.

Pros

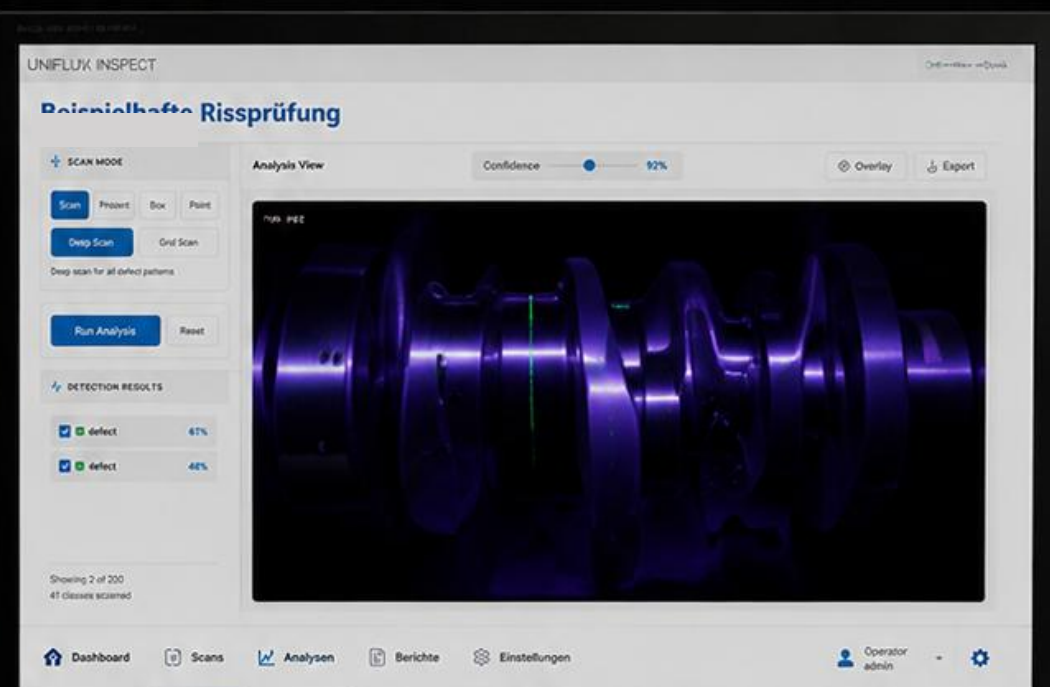
- Detection of the finest crack indications
- Reproducible test results
- 100% documentation of all test results



Fully integrated testing technology from Uniflux

The camera and lighting technology is optimally matched to the respective testing process and fully integrated into the crack detection system.

The automatic image acquisition takes place synchronously with the test sequence and enables reliable evaluation without additional operating effort.



Intelligent image evaluation in real time

The developed software automatically analyzes each image and provides the test result clearly for operators and quality assurance.

Detected abnormalities are marked and can be immediately traced and documented.

The software combines AI-powered image analysis with an intuitive user interface and creates complete transparency over the entire inspection process – from image acquisition to documentation.

Beispielhafte Rissprüfung

UNIFLUX INSPECT

SCAN MODE

Scan Prozent Box Punkt

Deep Scan Grid Scan

Deep Scan für alle Fehlerbilder

Analyse starten Reset

DETEKTIONSERGEBNISSE

☐	☒ Riss	37%
☐	☒ Riss	28%
☐	☒ Riss	27%
☒	☒ Riss	22%

Alle anzeigen

Anzeige 4 von 200
41 Bauteile gescannt

ANALYSE ANSICHT

Konfidenz 20%

Übersicht Overlay Export

755 x 240

Riss 22%

1637%



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