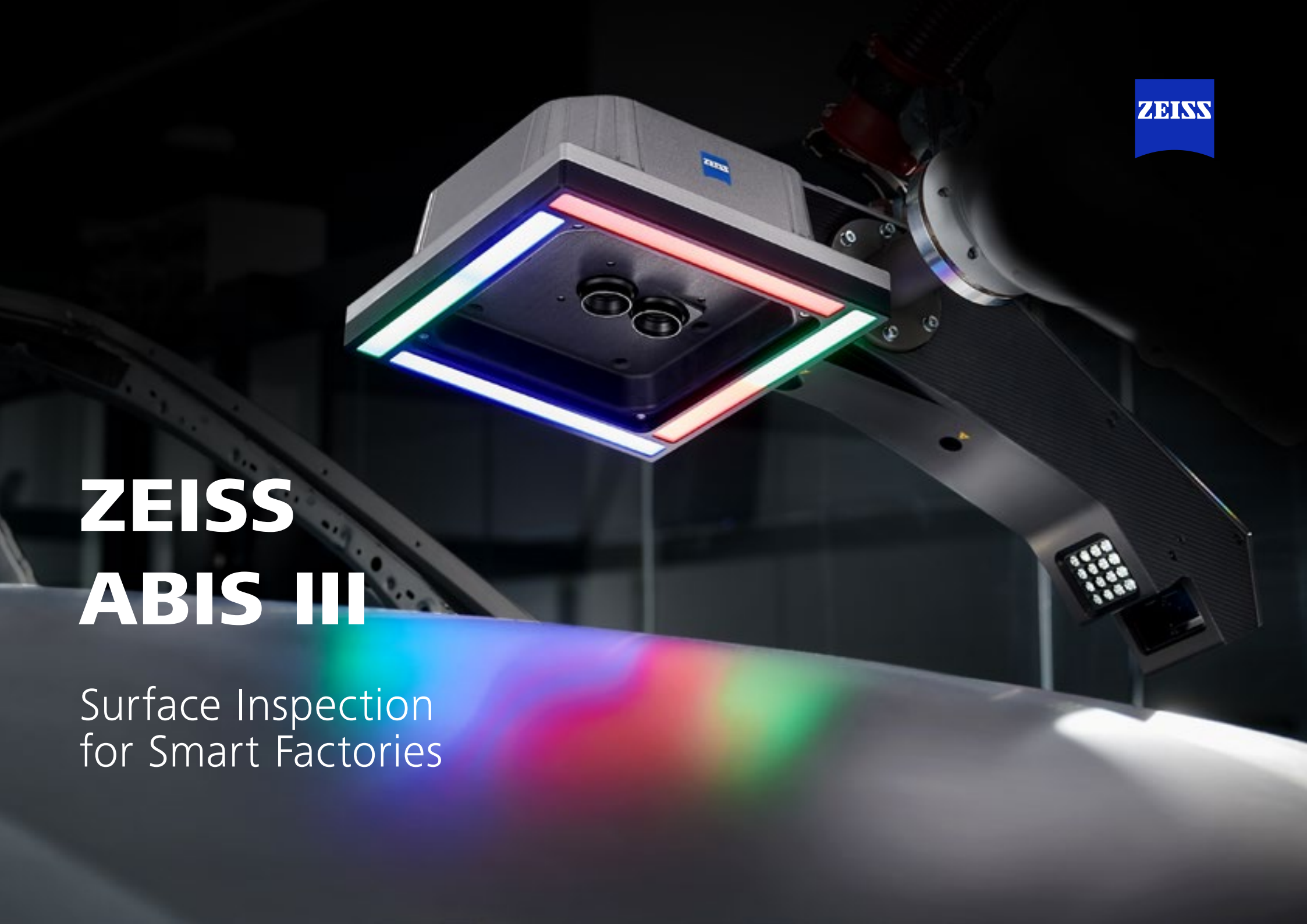

ZEISS ABIS III

Surface Inspection for Smart Factories

Process Monitoring in Cycle Time

ZEISS ABIS III sensor combines high-speed inspection with a reliable detection of all relevant surface defects. The system inspects both moving and stationary parts reproducibly and highly precise during live production and within the cycle time.

The new surface inspection system continuously and automatically provides the database required for dedicated rework, quick surface analyses and efficient process optimizations.

The advantages at a glance

- **Short Inspection Times**
  The system quickly and reliably detects all relevant surface defects and significantly reduces inspection times
- **Objective Evaluation**
  ZEISS ABIS III evaluates with constant reliability on the basis of digital limit sample – this ensures uniform standards
- **Easy Operation**
  The system is very easy to operate and forms the basis for proactive process control and a constantly high surface quality
- **Fatigue-Free Testing**
  ZEISS ABIS III works permanently, reliably, and fatigue-free

The patented Multi-Color-Light technology enables detecting the smallest types of defects such as scratches, dents, welding and adhesive residues. With the use of the sensor ZEISS ABIS III with an image capture frequency of up to 20 Hz and the fast detection rate, manual and subjective quality assurance processes become redundant. The resource-efficient system continuously and automatically provides the database required for dedicated rework, quick surface analyses and efficient process optimizations.

Multi-Color-Light Technology

Applications

ZEISS ABIS III is the ideal solution for both modern press shops and future-oriented body shops. The system can also be used in other demanding industries such as aerospace and transportation. Moreover, it is not only suited for inline but also for atline use in the production environment.

The uncompromising surface inspection system with the 100% principle guarantees the inspection of all produced parts – including the complete part surface and the detection of all relevant defect types.

Software

ZEISS ABIS V20

Possible surface defects of all metallic sheet metal and aluminum surfaces are processed and visualized in real time in the ZEISS ABIS V20 software. These include surface defects such as dents, sink marks, neckings, cracks, pressure marks and now also scratches as well as welding and adhesive residues.

This way, functions such as a Q-stop and digital quality details such as defect visualizations for scheduled rework are always available. They provide the basis for closed loop circuits and the precondition for implementing the Smart Process Control.

Technical Data

Number of cameras	8
Number of light sources	200
Measuring volume	300 x 225 x 40 mm
Operating distance	460 mm
Frame rate	Up to 20 Hz
Dimensions	772 x 295 x 300 mm
Weight	11,5 kg

Seeing beyond

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