

we invent solutions

we develop customized solutions from idea to production and beyond.

Project details: Wireless camera system for the measuring of distances, solid and inclination angles

Industries

- Automotive, Testing and Measuring Technology

Technology fields

- Optical Measuring Systems, Software Development, Bus Systems and Radio, Image Processing; Measurement, Control and Regulation Technology

Project requirements

- The aim of the project was the development of a high-quality, high-precision, wireless measurement system with the associated evaluation software for wheel alignment at different vehicle types. A user-friendly, innovative software, as well as the highest possible degree of flexibility and accuracy of the measurement technology formed the framework for the project.



Facts / Highlights

- Radio transmission with 10 channels at a transmission power of 10 mW and a frequency range of 433 MHz
- Battery mode; Operating time > 10 h with fully charged battery
- Quick capture of all axis-relevant parameter
- Intelligent camera: image processing in the measuring head
- Insensitivity to daylight
- 360° rotating camera measuring heads
- Concise and clear menu guidance
- Accuracy <1% of the measuring range

Services of KNESTEL

- Target price estimate, project management, specification of requirements, project planning, development of software and hardware, electrical and mechanical construction, EMC testing, prototyping, serial production

Possible applications

- Object measurement, object recognition and object tracking of any kind
- Quality assurance
- Pattern analysis
- Spectroscopy
- Microscopy
- Diagnostic