

WIRELESS CAMERA SYSTEM for measuring distances, Space and tilt angles

**RADIO NETWORKED
USER FRIENDLY**



for automotive, test and measurement technology

Technology fields

Software development, image processing, MCR technology, communication & connectivity

Project requirements

The **project objective** was the development of a high-quality, highly precise, wireless measuring system with the associated evaluation software for wheel alignment for 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/2.4 GHz
- Battery operation; operating time > 10 h with fully charged battery
- Fast acquisition of all axis relevant parameters
- Intelligent camera: image processing in the measuring head
- Insensitivity to daylight
- 360° rotatable camera measuring heads
- Clear and concise menu navigation
- Measuring accuracy < 1% of the measuring range

Services of KNESTEL

Potential analysis, target price estimation, project management, specifications, project planning, development of software and hardware, electrical and mechanical design, EMC test, prototyping, series production

Possible Applications

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

About KNESTEL: Knestel has been developing and producing customized electronic and mechatronic special solutions in the fields of motor and machine control, frequency converters, image processing, MCR technology, software development, radio, bus systems and gas analysis for 40 years. We support our customers from the idea to the finished implementation. Individual solutions and concepts - technically up to date. Our production - electronics manufacturing, device and switch cabinet construction, Production of subassemblies, assembly and mechanical processing - is equipped with the latest technology.