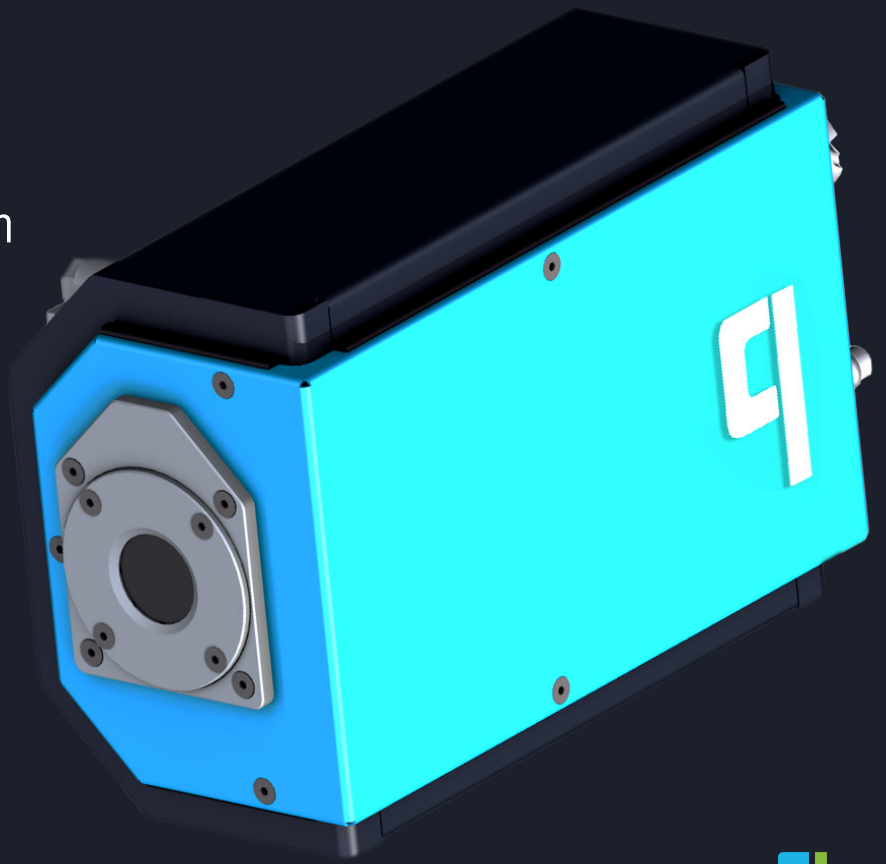
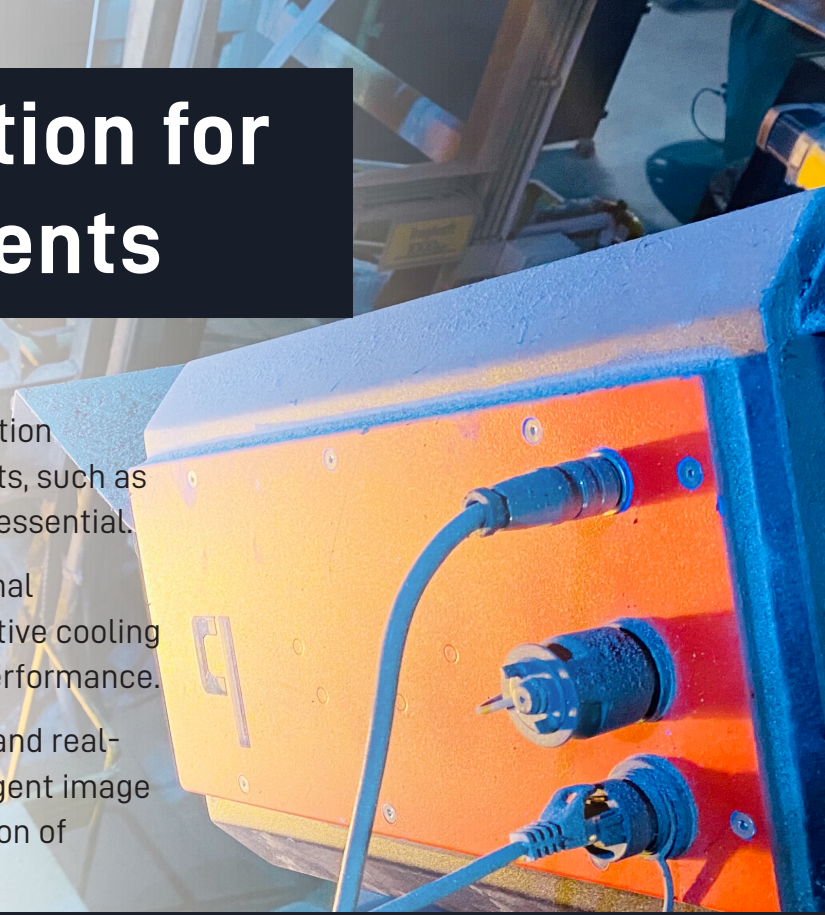
qurve ai

Intelligent camera system



qurve

smart sensor solution for extreme environments



THE SYSTEM IN A NUTSHELL

qurve is an advanced, camera-based sensor solution specifically designed for challenging environments, such as steel plants, where reliability and robustness are essential.

Its compact and dust-proof design ensures minimal maintenance and effortless handling, while effective cooling and robust dust protection ensure long-lasting performance.

Equipped with embedded computing technology and real-time data processing, the system excels in intelligent image processing, enabling transparency and optimization of production processes.

> Integrate the system as a stand-alone product or with **qoncept** software for a complete solution. Take greater control of your operations with **qurve**.

System Highlights

- Advanced camera-based sensor solution with on-board computing technology.
- Versatile computer vision algorithms for diverse applications.
- Detection of objects without the need for invasive marking methods.
- Onboard data and image processing for mobile computing.
- Configurable with RGB or IR detectors.
- Electrical zoom functionality for variable focus at different distances.
- Easily customizable camera settings through a user-friendly on-board web interface.
- Designed to withstand dust and heat through compressed air protection.
- Available as a stand-alone product or a complete system with **qoncept** software.

Experience optimized and transparent production with **qurve**.

System Application

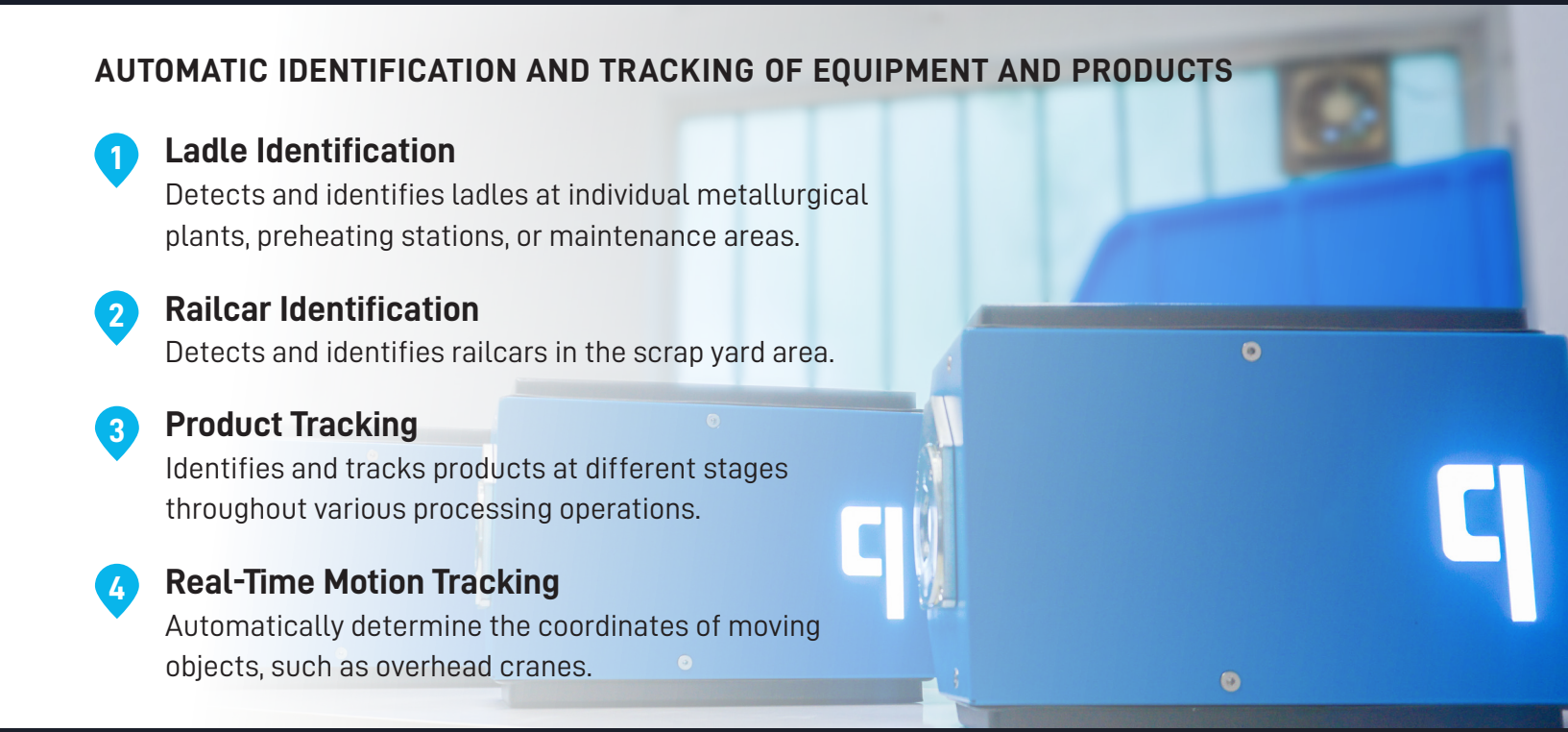
AUTOMATIC IDENTIFICATION AND TRACKING OF EQUIPMENT AND PRODUCTS

1. **Ladle Identification**
   Detects and identifies ladles at individual metallurgical plants, preheating stations, or maintenance areas.

2. **Railcar Identification**
   Detects and identifies railcars in the scrap yard area.

3. **Product Tracking**
   Identifies and tracks products at different stages throughout various processing operations.

4. **Real-Time Motion Tracking**
   Automatically determine the coordinates of moving objects, such as overhead cranes.

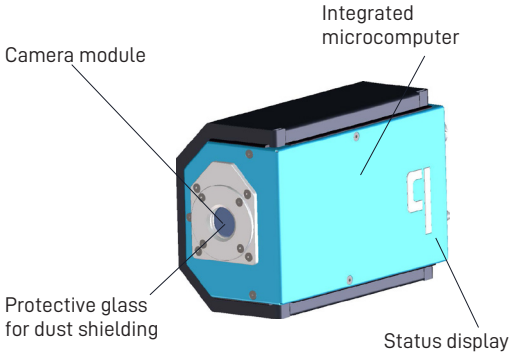


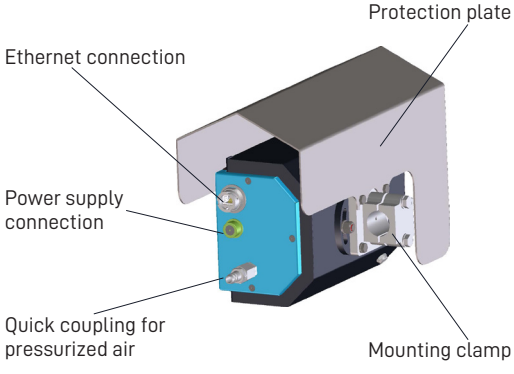
- Plug and play with our software solution **qontrol**.
- Data acquisition with complete signal processing onboard.
- Identification of objects without using invasive marking methods.
- Initiation of preventive measures through condition monitoring (e.g., hot spot detection).

Engineering

Technical Data

COMPONENT / PARAMETER	DESCRIPTION
Camera	▪ Technology: RGB/IR ▪ Resolution 3480 x 2160 px ▪ 10-60 frames per second (depending on application)
Single Board Computer	▪ Octa-Core Cortex Processor ▪ 4 GB RAM
Environmental Protection	▪ Compressed air flushed protective glass of the optics (3 mm / 0.1 " thickness) ▪ IP65 protection, fan-less housing
Housing	▪ 304 x 122 x 170 mm (~12 x 5 x 7 ") ▪ ~ 2.5 kg mass (~ 5.5 lbs) ▪ Powder-coated steel sheet (1.5 mm / 0.06 " thickness) ▪ Over-pressurization for dust-proofness
Connections	▪ 230 VAC with proprietery plug (provided) ▪ Ethernet (PoE optional) ▪ Compressed air for cooling and optics flushing
Operating System	▪ Embedded Linux





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