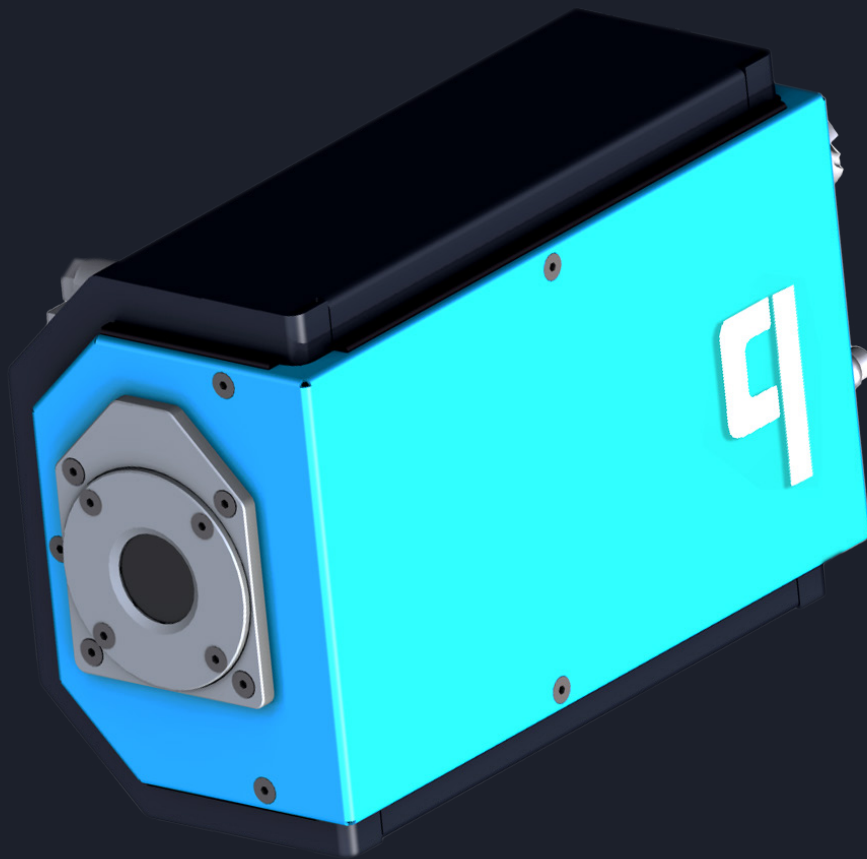
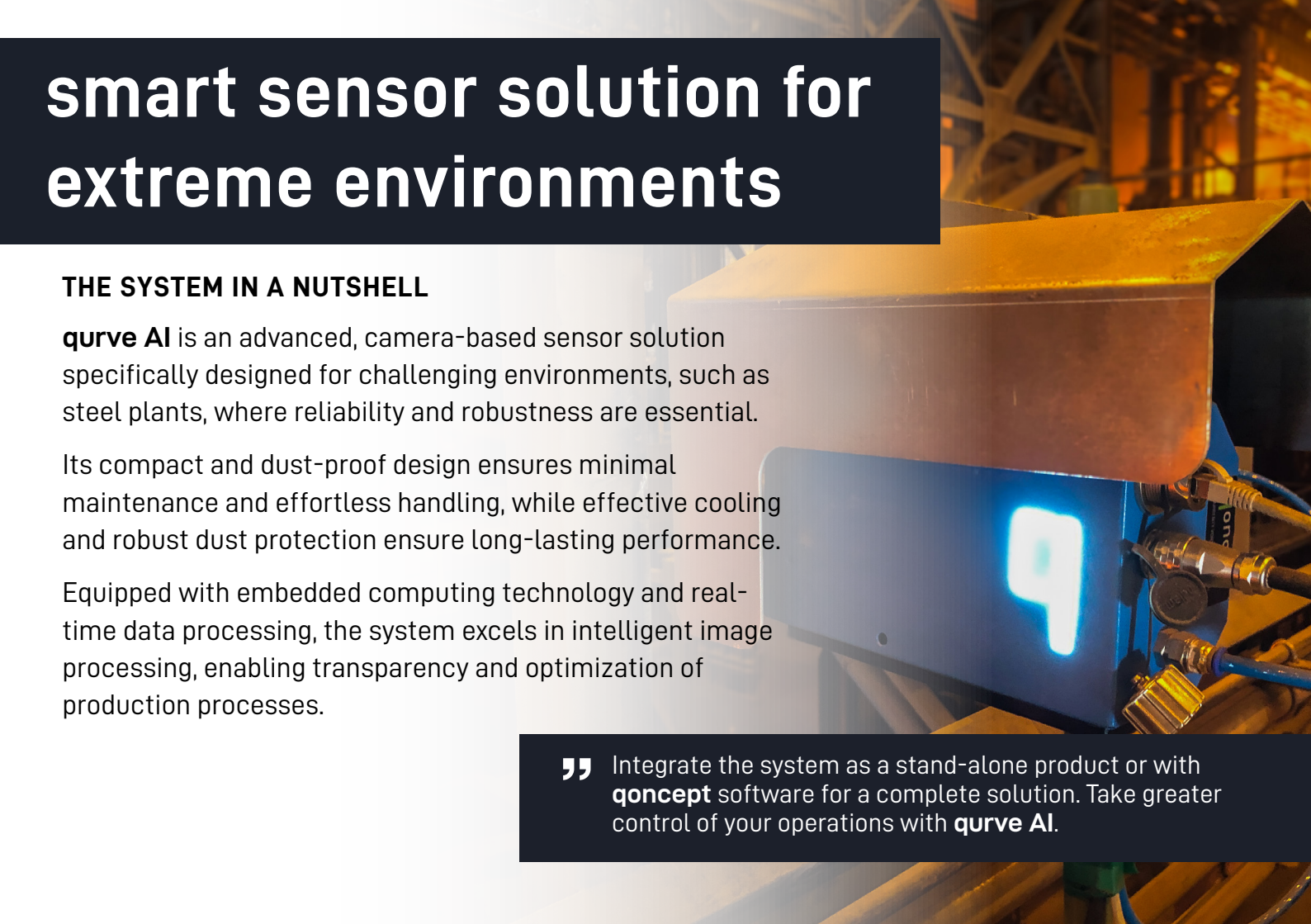




Intelligent camera system



smart sensor solution for extreme environments



THE SYSTEM IN A NUTSHELL

curve AI 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 **curve AI**.

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 **curve AI**.

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 **control**.



Data acquisition with complete signal processing onboard.



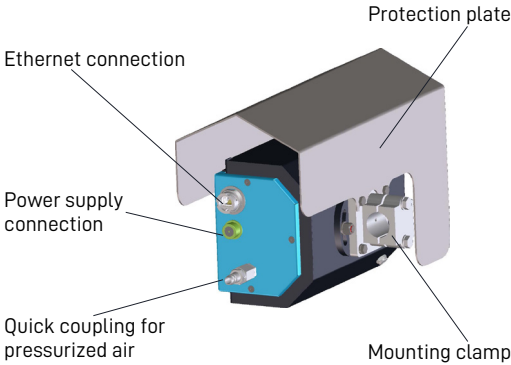
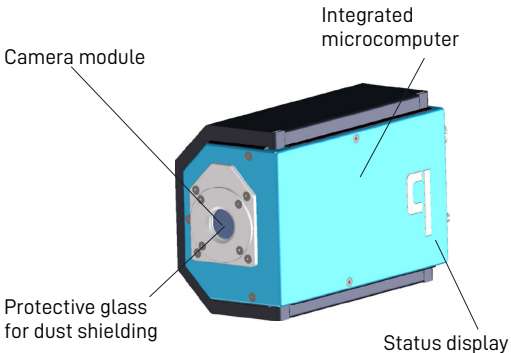
Identification of objects without using invasive marking methods.



Initiation of preventive measures through condition monitoring (e.g., hot spot detection).

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 proprietary plug (provided) - Ethernet (PoE optional) - Compressed air for cooling and optics flushing
Operating System	Embedded Linux





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