

PRODUCT DATA SHEET

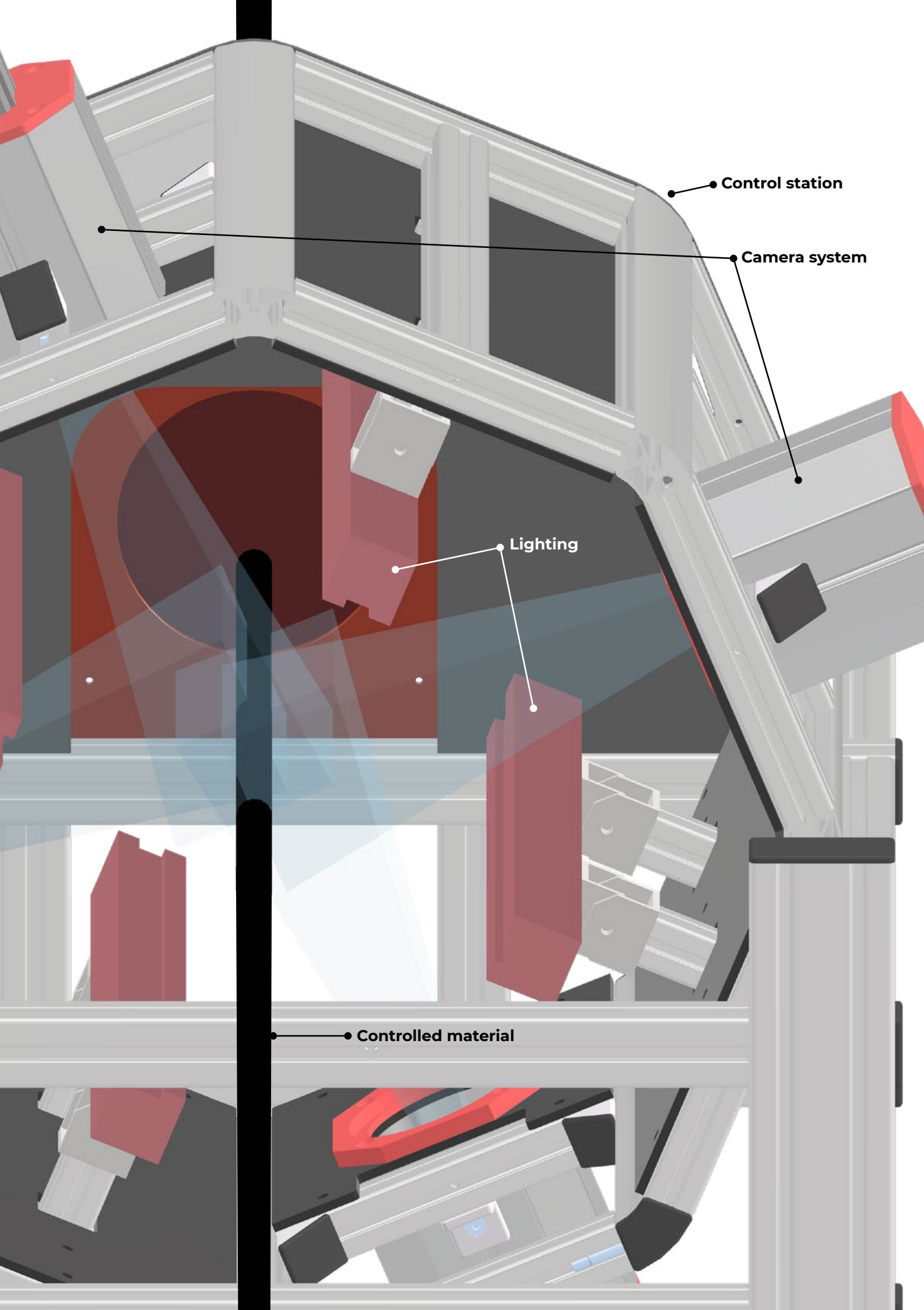
INSPECTION STATION  
**AMV-LP-4S**

 **argutec**<sup>®</sup>  
have a vision



# Inspection station AMV-LP-4S

The AMV-LP-4S inspection station is designed primarily for visual inspection of long products such as hoses, ropes, cables, pipes and rods. This system provides a reliable solution for visual defect detection, QR/barcode reading and text recognition (OCR). The standard product processing speed is approximately 100 m/min, ensuring high efficiency without compromising on quality. The system's self-reliant nature enables easy communication with enterprise systems and simple integration into existing production processes.



**Defect detection and marking**

**Compatibility with production lines**

**Intelligent AI evaluation**

**Flexible and fast control**

## Defect detection and marking

The AMV-LP-4S inspection station automatically detects visual defects, QR/barcodes and recognizes texts (OCR) on product surfaces, enabling reliable identification of defects and ensuring high quality.

## Production Line Compatibility

The inspection station is designed for seamless integration with production processes, with the ability to communicate directly with the production line and enterprise systems for immediate interventions such as automatic line stops.

The AMV-LP-4S inspection station is the perfect solution for modern production lines, focusing on precise inspection, reliability, and efficiency. It enhances inspection quality, reduces defective products, and supports customer satisfaction while increasing competitiveness.

## Intelligent AI evaluation

AI-based system ArgutrakDNN enables advanced image evaluation, ensuring accurate and fast defect detection. The tool is able to learn from the data and adapt to the specific needs of each customer.

## Flexible and fast control

Thanks to its customizable design, the station is able to inspect different types of products (hoses, ropes, cables, pipes, rods) at a speed of up to 100 m/min, increasing the efficiency of the production line.

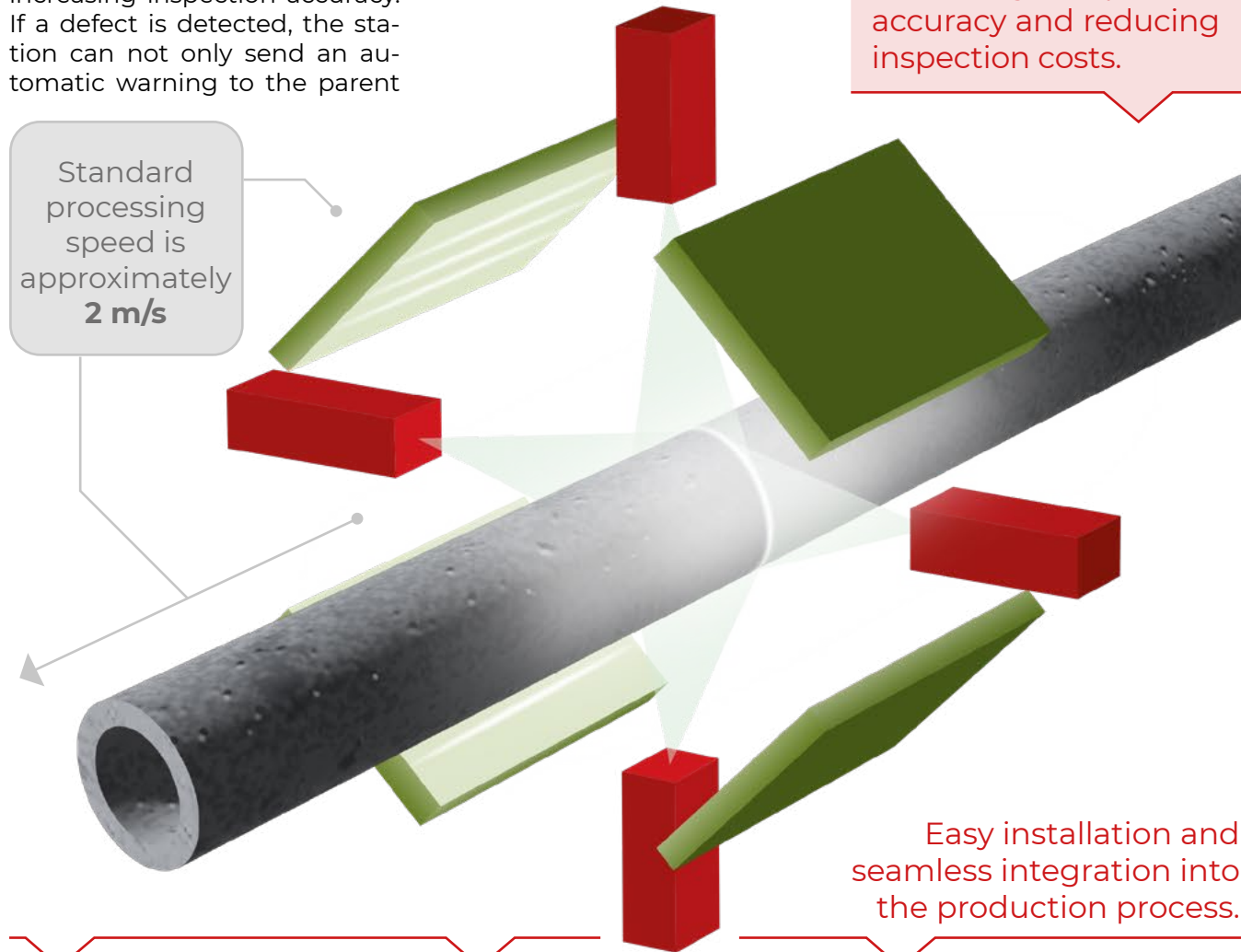


# Automated detection and inspection

The AMV-LP-4S is equipped with advanced defect detection software that analyzes in detail both the surface and structure of each product in real time. With this sophisticated technology, the system is able to accurately identify even the smallest deviations or damage, greatly increasing inspection accuracy. If a defect is detected, the station can not only send an automatic warning to the parent

system, but also immediately interrupt the production process. This quick and effective intervention minimizes the risk of defective products spreading to the next production steps and then to the customer, significantly reducing the cost of follow-up inspection and repair.

AMV-LP-4S's sophisticated software analyzes products in detail in real time and can respond immediately to defects detected, increasing inspection accuracy and reducing inspection costs.



## Integration Guide

The AMV-LP-4S inspection station comes with detailed step-by-step instructions that guide you through the process of integrating it into your existing production line. This documentation ensures that the installation process is seamless and allows for easy interfacing with other systems.

## 3D Models & Drawings

3D models and detailed technical drawings are available to facilitate and accurately plan the installation. These tools provide important information for adapting the station to the specific conditions of the production process and allow the precise placement of all components.

## Installation & Commissioning

Our company offers a full installation and commissioning service on site at the customer's location. This service guarantees a fast start-up and minimizes the time required to fully integrate the station into the production process, thus maximizing efficiency.

# Powerful hardware and AI evaluation

Technologies that ensure the reliability and accuracy of the AMV-LP-4S inspection station include robust camera protection, powerful industrial computers with GPU acceleration, and

integrated lighting for optimal product inspection. Combined with the intelligent ArgutrackDNN system for automated image evaluation, the result is an efficient and powerful system that meets the highest industry standards for visual quality control.

## ArgutrackDNN – Learning at every step

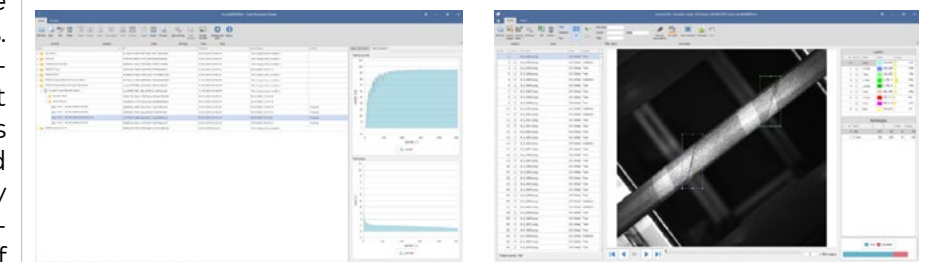
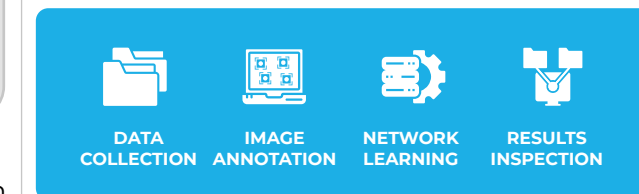
ArgutrackDNN is an advanced AI tool that provides automated image evaluation using deep learning. The system is designed to learn efficiently in a few simple steps and can be adapted for different industrial tasks. From

data collection to final analysis, it ensures accurate results and minimizes the need for manual intervention. This tool not only increases the speed of inspection but also significantly reduces the risk of errors.

## Universal INSPECTION OF DIFFERENT MATERIALS

### Material Inspection

The AMV-LP-4S inspection station is designed for flexible use across a variety of industries. Thanks to its advanced technology, it is able to effectively inspect a wide range of materials such as ropes, hoses, pipes, cables and rods. This ensures its versatility and adaptability to different types of products regardless of their shape or surface.



The entire learning process takes just 4 steps. [www.argutrack.eu](http://www.argutrack.eu)

Thanks to these technologies, the system provides reliable and detailed analysis that guarantees a high level of quality control at every stage of the production process and ensures consistent results.

## Camera & IPC Protection - Reliability

### Powerful IPC Neousys

A powerful Neousys industrial PC is used to evaluate inspection data. It is equipped with a GPU for fast image processing, which increases the efficiency of the entire system and enables fast defect detection.

### Camera protection

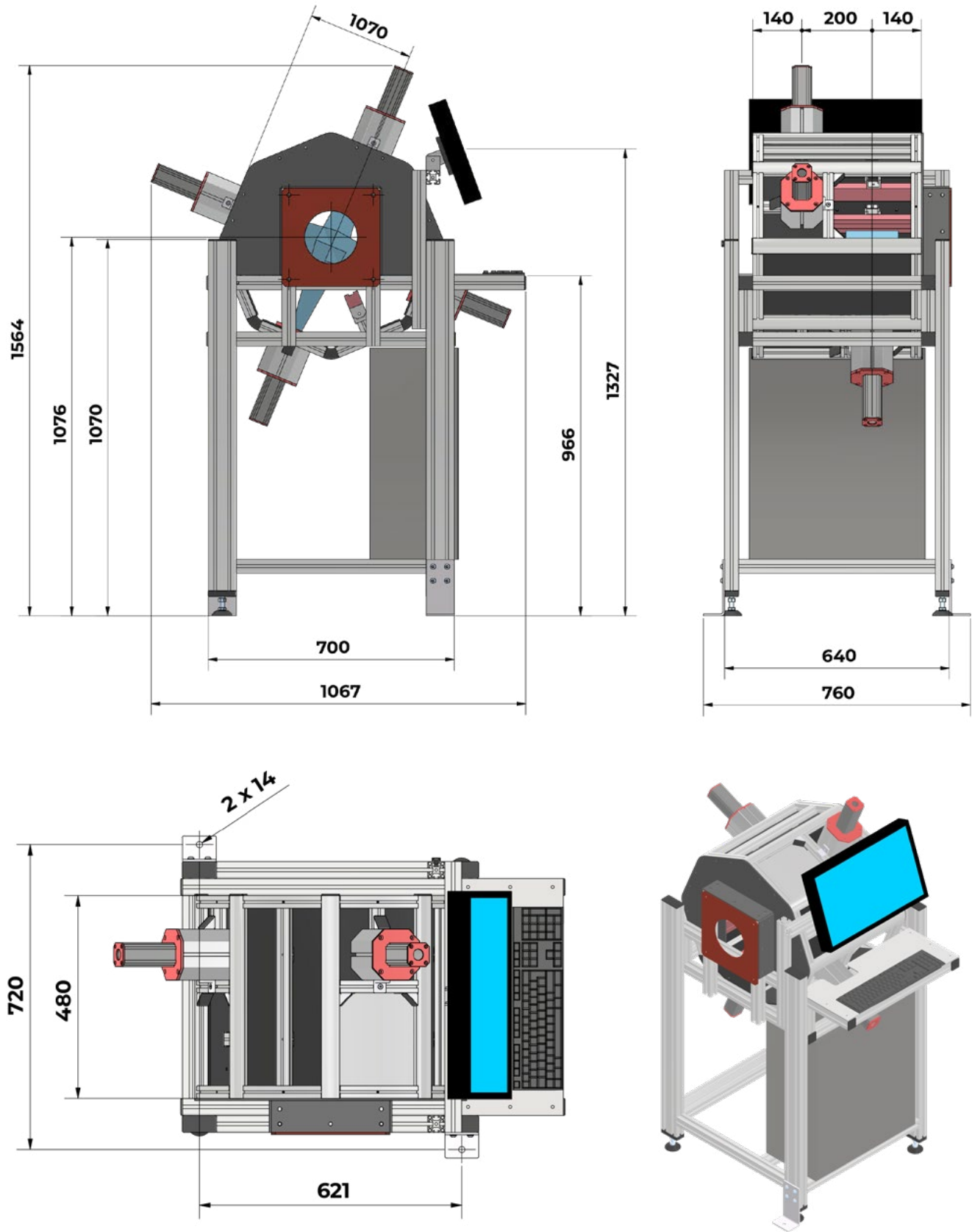
Cameras are housed in durable aluminum enclosures built for in-

dustrial environments, ensuring long life and reliable performance even in harsh conditions.



CH50 Cover [eshop.argutec.eu](http://eshop.argutec.eu)

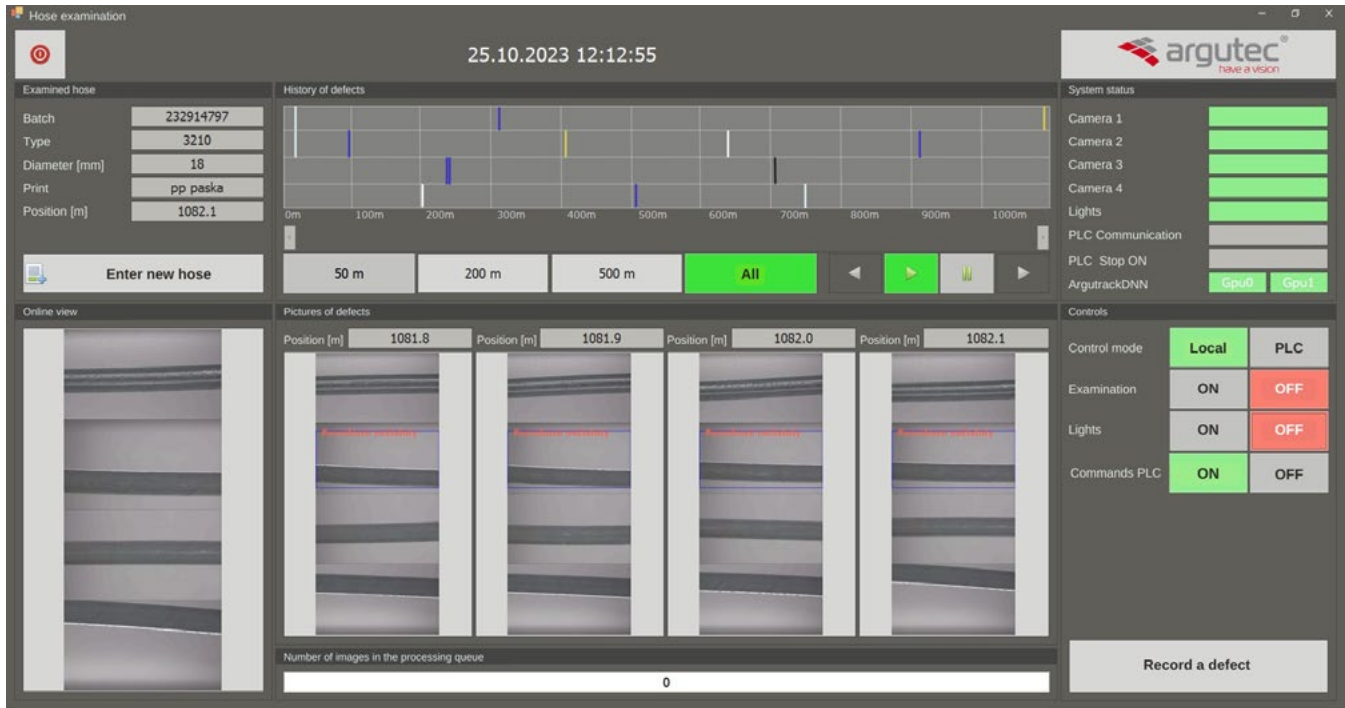
Product dimensions



Standard Conveyor Dimensions.

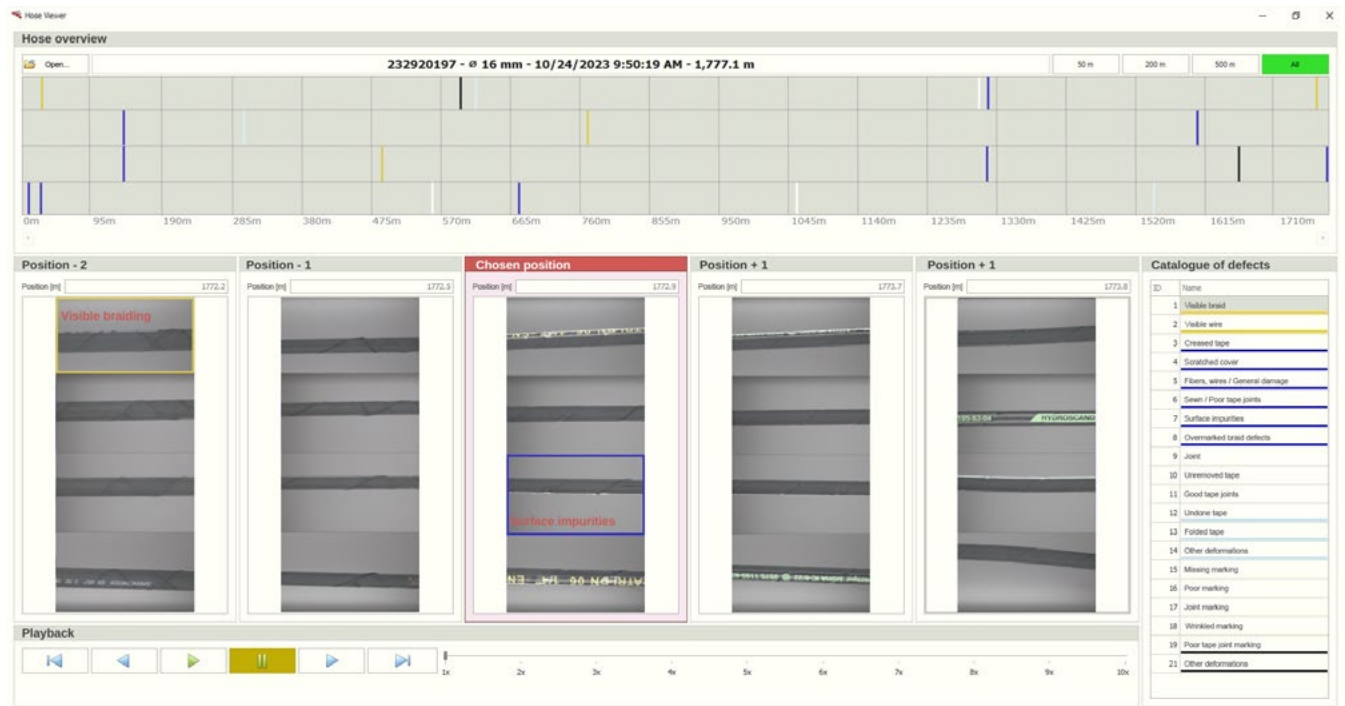
AMV-LP-4S

Software exhibition – detection, application, statistics, defects



Overview of specific product parts and online quality status.

Operator Application



Overview of specific product parts and online quality status.

History Overview Application



Overview of detected hose parts.

Detection and defects

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