

# **Intelview**<sup>TM</sup>

A POWERFUL DASHBOARD FOR AI DRIVEN AUTOMATION



## NEATCO

AI for the Circular Economy

**EST. 2010**

# Intelview™

A POWERFUL DASHBOARD FOR AI DRIVEN AUTOMATION

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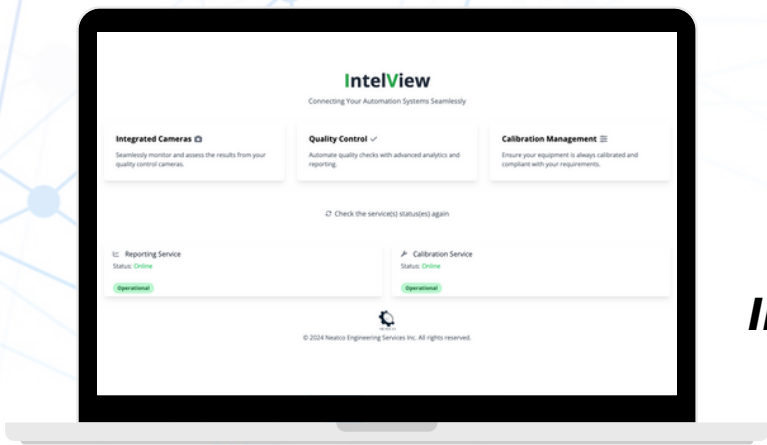
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# IntelView™

SCALABLE WEB-BASED SOLUTION



IntelView™



Industrial Camera(s)



IntelSight™



Cloud Provider

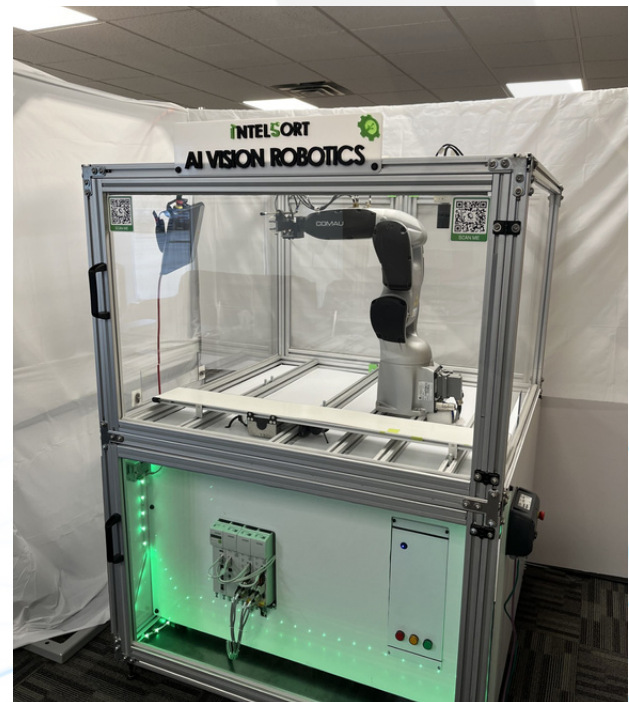
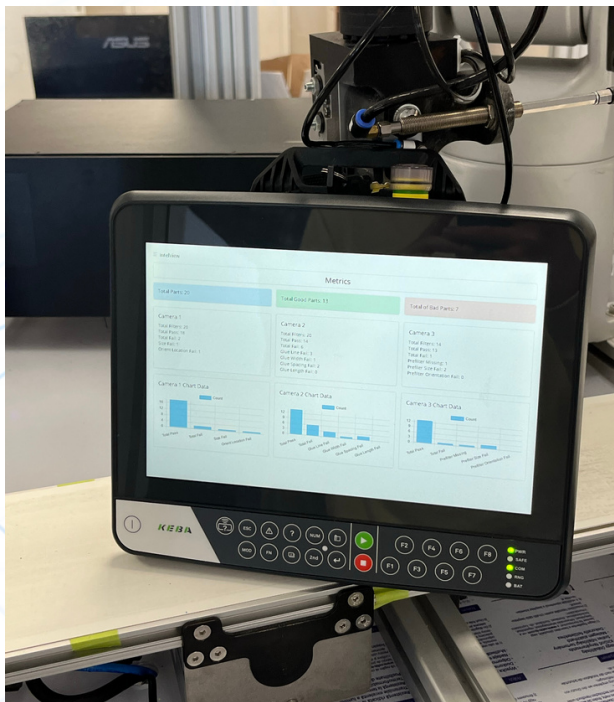
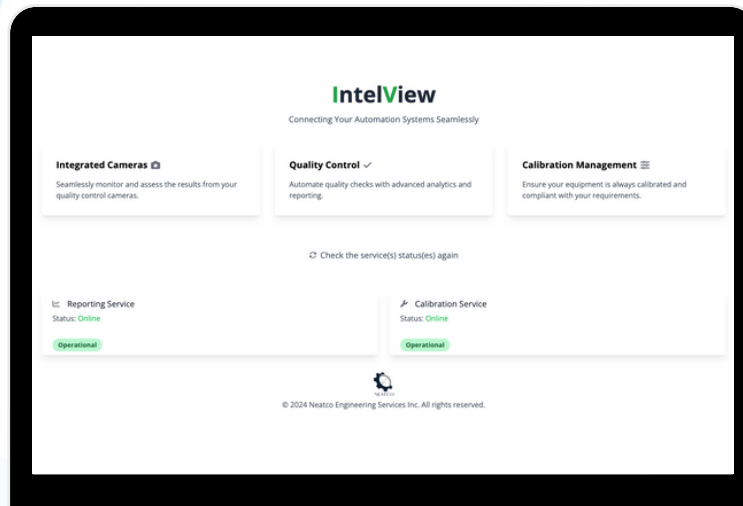


IntelView™ transforms industrial process management by centralizing AI data on a scalable, modern, and intuitive web-based dashboard. As the epitome of IIoT, it enables real-time monitoring for key performance indicators (KPIs) and quality control (QC) inspection results of connected systems, either via the cloud or local networks. Seamlessly integrating with our existing IntelSight™ product, IntelView™ converts AI vision data into digitized analytics and customizable reports, streamlining operations.

# IntelView™

## CROSS-FUNCTIONAL APPLICATION SUITE

The IntelView™ application suite provides a comprehensive array of advanced features across its diverse pages. These include, but are not limited to tracking KPIs, accessing live feeds from integrated machine vision systems to check on QC inspection results, conducting real-time analytics, and generating automated reports. IntelView™ is the premier all-in-one software solution for AI vision-supported automation lines.



# IntelView™

## FEATURE OVERVIEW

### **KPI Tracking**

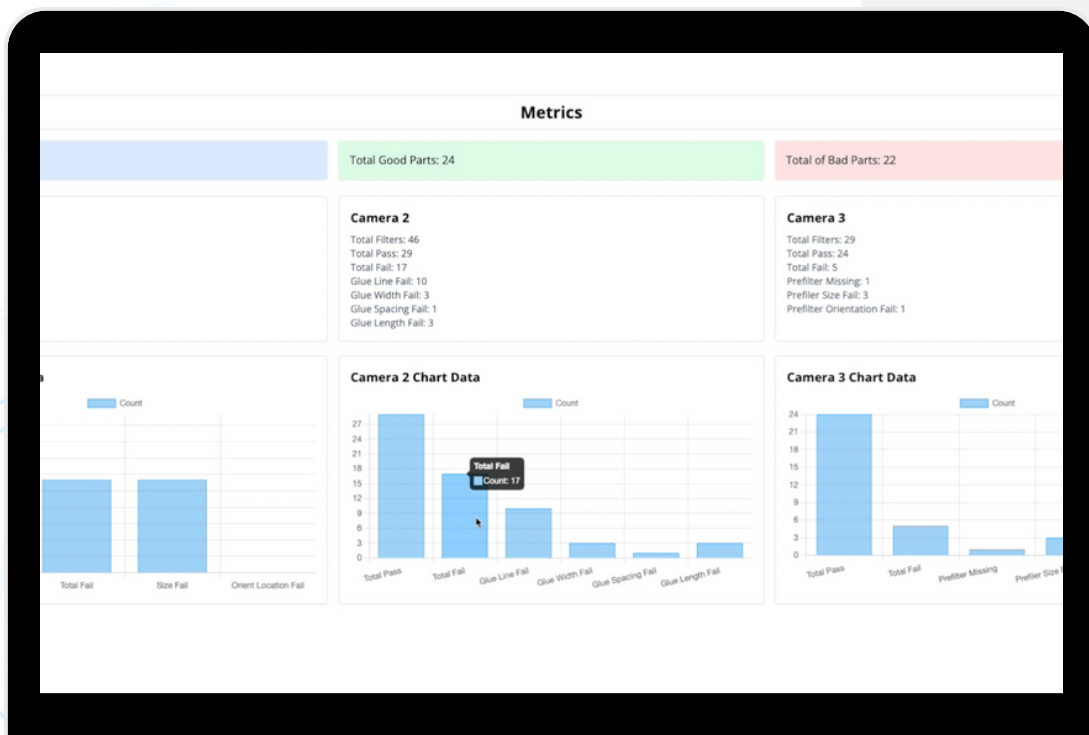
Measuring a system's performance is crucial for IT/OT convergence. IntelView™ compiles configured KPIs and metrics, transforming them into user-friendly graphics.

With the integration of our IntelSight™ hardware, this data is updated in real-time, and made accessible for users to monitor the latest insights.

### **QC Inspection Live Feed**

Utilizing Industry 4.0 capabilities for QC through an AI vision live feed allows users to swiftly address issues in their automated lines. IntelView™

not only facilitates real-time problem-solving but also logs failed QCs, enabling users to conduct an in-depth analysis of process inefficiencies.



# IntelView™

## FEATURE OVERVIEW CONTINUED

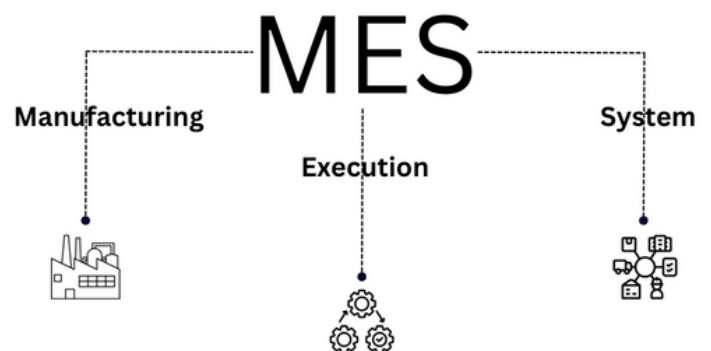
### **Automated Report Generation**

IntelView™ elevates process efficiencies through its automated report generation feature, which users can customize according to their needs. These reports can be scheduled to send to administrators at various frequencies, containing precisely the information they require, thereby improving communication and decision-making processes.

### **MES Integration**

We understand the value of providing insights to existing Manufacturing Execution Systems (MES). IntelView™ offers a unique middleware that transforms data and relays it through standard communication protocols including: OPC UA, MQTT, and REST APIs. Having the ability to customize this feature to fit specific requirements is what sets IntelView™ apart when it comes to MES.

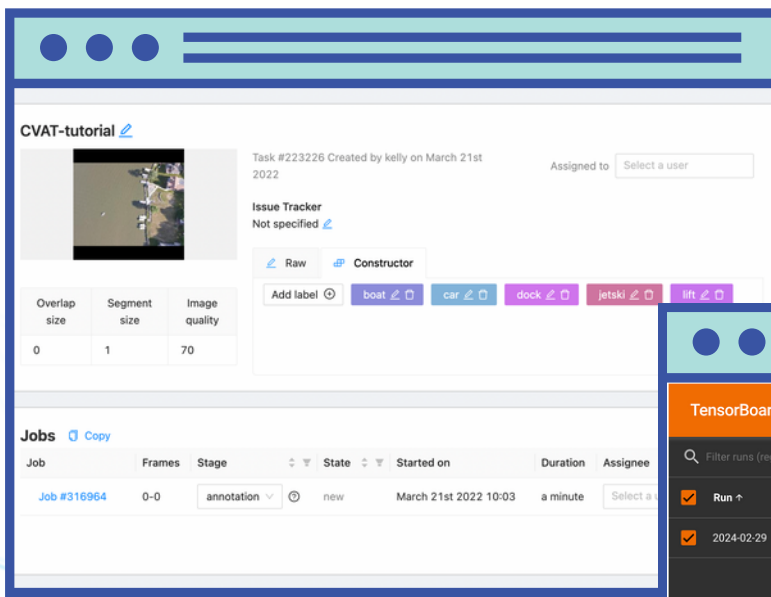
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  "Vision_Station_1": {
    "Total_Filters": 51,
    "Total_Pass": 29,
    "Total_Fail": 22,
    "Size_Fail": 22,
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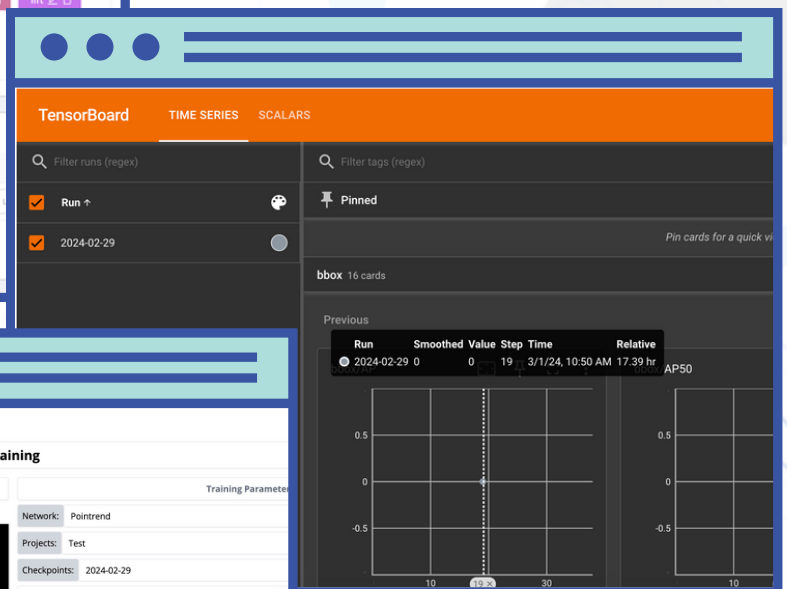
# IntelView™

## AI TRAINING SUITE

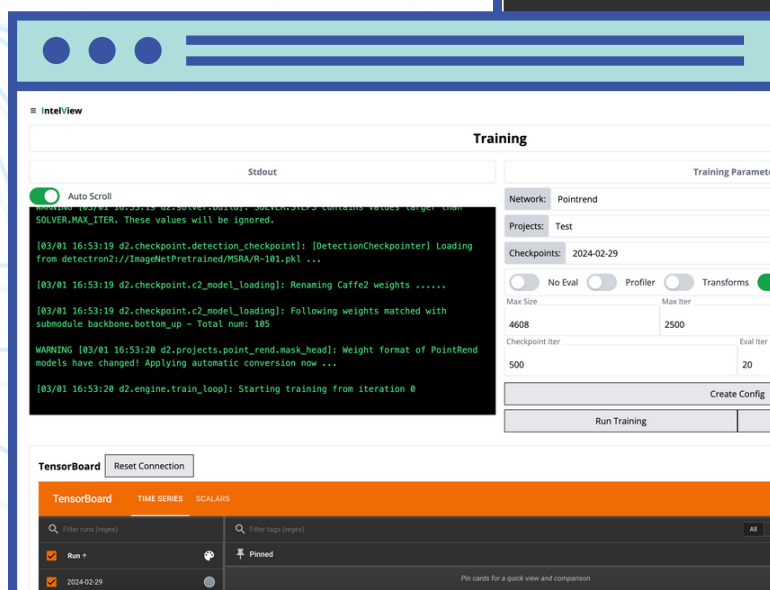
The IntelView™ AI Suite harnesses the power of open-source technologies, including CVAT for data labeling and Tensorboard for network training metrics. IntelView™ AI Suite is also complemented by its proprietary training configuration and deployment interface. In synergy with IntelSight™ hardware, the difficult step of training AI networks for rapid deployment has been transformed into an intuitive solution. The outcome is a suite of trained and tested networks ready for deployment into production environments. These networks are designed to enhance accuracy, introduce new functionalities for AI assisted robotics, quality control, and help provide analytics.



### Annotation Tool



### Tensorboard



IntelView™  
Training

# IntelView™

ON-DEMAND CALIBRATION



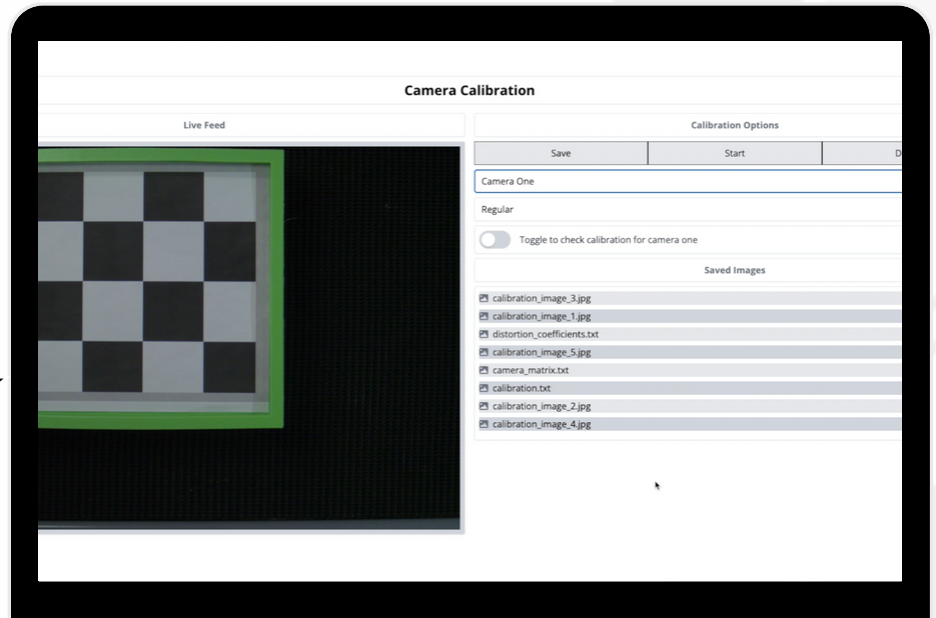
**Industrial Camera(s)**

**GigE Standard/USB 3 Connection**



**IntelSight™**

**Local Network**



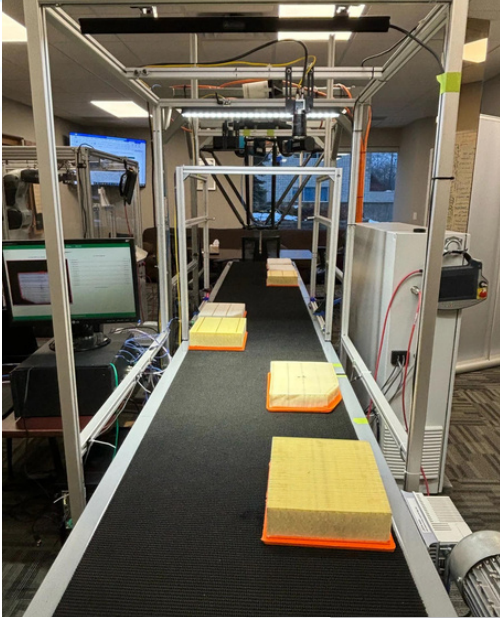
**IntelView™**  
**Calibration**

In the ever changing landscapes of advanced manufacturing and recycling, AI vision systems may need calibration to fit new requirements. IntelView™ boasts an intuitive layout for calibrating connected cameras.



# IntelView™

INDUSTRIAL USE-CASE



## Automotive Air Filter Manufacturing

IntelView™ is currently deployed in manufacturing for automotive air filters. The image depicts the quality control test environment that IntelView™ was integrated in. Our software is provisioned and tested rigorously before being released to production.

## IntelView™ In Action

The inspection live feed page can be seen in the image to the right. History of live and past failures are available.

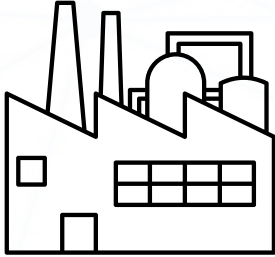
The screenshot displays the IntelView software interface. On the left, there is a 'Live Feed (Will Auto Update)' window showing a camera view of an air filter. The filter is a rectangular, pleated unit. Several dimensions are overlaid on the image in green and red text: 283.55, 250.24, 250.88, and 250.40. On the right, there is a 'Camera 1' section and a 'QC Failed Image List' table. The table lists several failed images with timestamps and part types. Below the table, it indicates 'Part Type: 201\_F'.

Image	Timestamp
<input type="checkbox"/> 201_F	11:42:5
<input type="checkbox"/> 201_F	10:50:3
<input type="checkbox"/> 201_F	10:49:5
<input type="checkbox"/> 201_F	10:47:9
<input type="checkbox"/> 201_F	10:43:3
<input type="checkbox"/> 201_F	10:41:8
<input type="checkbox"/> 201_F	10:37:2
<input type="checkbox"/> 201_F	10:36:1
<input type="checkbox"/> 201_F	10:35:3
<input type="checkbox"/> 201_F	10:34:1
<input type="checkbox"/> 201_F	10:33:0
<input type="checkbox"/> 201_F	10:31:3

Part Type: 201\_F

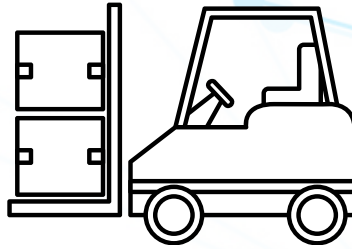
# Intelview™

## INDUSTRIAL APPLICATIONS



### **Manufacturing**

- Vision Inspection
- Process Improvement
- Waste Reduction
- Defect Analysis
- Robotic Assembly



### **Supply Chain**

- Warehouse Automation
- Distribution Centers
- Packaging
- Quality Control
- Record-Keeping



### **Recycling**

- Data Analytics & Reporting
- Equipment Performance Improvement
- Robotic Sorting & Dismantling
- Quality & Safety Monitoring

## **Connect With Us**



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