



c-Alice is an AI-powered image analysis system, built for complex production environments that depend on high-volume image data from multiple systems for quality control.

Results go straight to your analysis, control, and reporting tools — exactly where and when you need them — enabling optimized product verification, improved process control, and faster root cause analysis.

To learn more visit:

criticalmanufacturing.com/mes-for-industry-4-0/apps/c-alice

Or scan the QR code below:



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AI-powered image-based defect classification

For industries that
depend on high-volume
image data from
multiple systems for
quality control

Unlock the value of every image

c-Alice acts as a central layer between image sources and process control systems. It centralizes image analysis across image sources, enabling use cases such as defect classification, anomaly detection and OCR-based interpretation within production workflows.

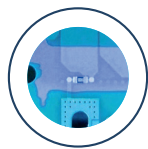
The results integrate easily into existing process control systems – enabling production-speed analysis within established setups.

All types of inspection / microscopy and wafer images

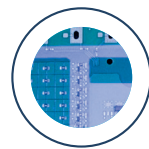
c-Alice works with images of a variety of industrial cameras, X-ray and optical inspection, as well as scanning electron microscopes (SEM), defect maps and electrical test data:



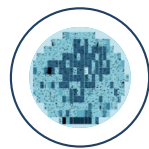
Industrial Vision Systems



Industrial Vision Systems



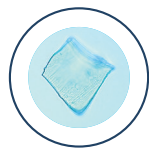
Industrial Vision Systems



Defect & Yield Management tools



Optical Microscopy (AOI)



Optical Microscopy (AOI)

Making use of your production images

In high-tech production environments inspection systems generate massive volumes of images every day.

The challenge is not collecting them. It is turning them into structured, actionable decisions – without slowing down production.

When image-based decisions rely on manual review loops or fragmented classification logic, scaling becomes difficult. Insights remain underused. Reaction cycles become longer.

Why this creates challenges in production

- Image volume grows faster than decision capacity
- Classification logic differs across tools and teams
- Manual review becomes the fallback for unclear cases
- Insights stay local instead of feeding process control

This is where c-Alice comes in. Enabling you to automate defect classification with the help of AI using pre-built recipe templates for the most typical use cases:

✓ Classification Tasks:

Identification and categorization of defect types in images with reduced false positives.

✓ Anomaly Detection:

Identify unexpected deviations beyond predefined defect categories.

✓ Optical Character Recognition (OCR):

Extract and use text from images, such as part numbers.

✓ Object Detection:

Counting, position verification, and completeness checks.

✓ Ever growing capabilities:

New capabilities are constantly being added as we evolve with customer needs and production challenges.

Easy to use. Built to fit.

Everything inside c-Alice is designed to work intuitively for engineers and technicians – without requiring AI knowledge or code.

The system adapts to your production setup with maximum flexibility.



Centralized
One AI framework for your entire production site – consistent, scalable, and efficient



Independent
Works across inspection, camera, and imaging systems – no vendor lock-in

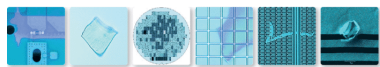


Customizable
Algorithms and workflows can be tailored to your specific use cases and data needs

Not another inspection tool. Not another isolated AI model.

A system that connects what already exists.

Works with a variety of image data sources & all types of images



Supports many different use cases

Classification	OCR
Anomaly Detection	Pattern Recognition
Object Detection	Segmentation

Easy & no code handling
By Engineers / Technicians

About c-Alice

c-Alice is an AI-powered image classification software built for process control in production.

Highly efficient

Low maintenance, increases throughput & reduces personel cost.

Fast & accurate

After image and context data, the wait and process time is reduced to seconds.

Easy to set-up

Easily adjust, monitor, and expand AI models without in-depth AI knowledge.

Results go straight to your data platform, reporting & control tools.

SPC	APC
EDA	YMS
OCAP	

Improved product quality throught better and more reliable information, faster reaction and improved root cause analysis.

Every production environment is different

No two production setups are the same. That's why the real question is not whether image-based analysis is relevant – but where it can create value in your specific context.

Where c-Alice typically creates impact:

- Reducing manual image review effort
- Reacting faster to process deviations
- Improving root cause analysis
- Scaling across tools and use cases

A practical starting point

In a short, no-obligation discussion, we can explore:

1. Which use cases are most relevant in your setup
2. How easy it is to work with c-Alice
3. Where your image data is available but underused

No preparation needed – just bring your current challenges.



Let's schedule some time and talk
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