

Vigil Vision – at first sight

Automated quality inspection for production environments



Detect issues before they become costly problems

Vigil Vision is a quality inspection system designed to detect defects and deviations directly on the production line.

It enables continuous inspection in real time, helping manufacturers reduce scrap, improve consistency and maintain stable production processes.

The system is built for production environments where conditions change, speed matters and quality must be maintained continuously.

Why it matters

In many production environments, critical quality decisions are still based on the human eye.

This creates variation between operators, limited scalability and inconsistent quality outcomes.

At the same time, traditional vision systems are often rigid, require predefined rules and are difficult to adapt when production changes.

Vigil Vision enables automated inspection that works under these conditions.

What you get

- Real-time detection of defects and deviations
- Reduced scrap and rework
- Improved consistency across shifts and operators
- Increased throughput
- Reduced dependency on manual inspection

How it works

Capture

Image data is captured from the production environment

Detect

The system identifies defects and deviations

Evaluate

Results are classified and visualized

Act

Output is used to support production decisions

Built for secure production environments

Vigil Vision is designed for environments where data control, security and reliability are critical.

All image processing and analysis can be performed locally within the customer environment.

- No production data is sent to external services
- Full control over image data, models and infrastructure
- Supports operation in isolated and security-classified environments
- No dependency on external cloud inference

This enables deployment in environments with strict security and compliance requirements.

Detection approaches

Anomaly detection

Learns expected patterns and identifies deviations

Reference-based detection

Compares incoming data to reference images

Task-specific models

Configured for specific defects, products or processes

Deployment and data control

All processing can be performed locally within the customer environment.

- Full control over data
- No dependency on external processing
- Low latency
- Supports secure and isolated environments

Deployment options include on-premise, edge-based and hybrid setups.

Implementation

1. Installation and configuration
2. Validation using production data
3. Deployment into production

In many cases, the system starts delivering value within a few weeks.

What to expect

Detection performance depends on:

- Image quality
- Camera placement
- Production conditions

The system supports quality inspection but does not replace all human decision-making.