

CorGrid Smart Process

QuickDeploy SaaS Application



Achieving Operational Excellence with Intelligence Automation

Our CorGrid Smart Process SaaS application brings advanced vision and automation technology to the production floor.

Using cameras with embedded AI and a wide range of industrial sensors, the system monitors every stage of production in real time. Detecting defects, measuring conformity, and adjusting parameters automatically to maintain top performance and quality.

CorGrid empowers the smart process industry by revolutionizing operations with enhancing efficiency and sustainability.

- IoT sensors track air and water quality.
- Detect pollutants and ensure clean environments.
- IoT-enabled sensors maintain safety and efficiency.
- Allow quick adjustments without constant on-site presence.
- Enable seamless data sharing.

Assuring quality and productivity standards through process monitoring and automation.



**Automated Visual
Inspection with AI**



**24/7
Quality Control**



**Automatic
Process Intervention**



**Defect and
Anomaly Detection**



www.corgrid.io/smart-process/

CORVALENT



Can Your Production Keep Up with the Demands of Modern Industry?

In today's manufacturing environment, producing more is not enough, you must produce better.

Quality deviations, production bottlenecks, and reliance on manual inspection lead to waste, rework, and lost profits.

Smart Process transforms this reality, turning traditional production lines into intelligent, self-correcting systems that guarantee excellence in every cycle.

EQUIPAMENT / SENSOR	MONITORING	OBJECTIVE	RESULT
AI-Enabled Cameras	Product compliance (dimensions, color, shape) Defect detection (scratches, assembly faults) Item counting and classification Verification of packaging and labels	Fully automate visual inspection; Identify quality deviations in real time; Ensure product traceability and compliance	Significant reduction in human error; Increased consistency and quality standards; Reduction of rework and waste
Proximity Sensors	Presence or absence of parts on an assembly line; Correct positioning of components; Filling level in containers	Ensure all process steps are completed; Synchronize actions on a production conveyor	Prevention of assembly failures; Increased line speed and efficiency; Reduction of stoppages caused by positioning errors
Photoelectric /Color Sensors	Verification of correct product/component color; Detection of marks or registration codes; Object orientation on the production line	Ensure visual consistency of the product; Automate sorting by color or visual characteristics	Guarantee brand visual identity; Increased accuracy in selection and classification
Electro electronic Actuators	Process interventions (valves, pistons); Commands generated by the AI platform; Automatic machine parameter adjustments	Perform automatic process corrections; Proactively intervene to avoid quality deviations	Creation of an autonomous production cycle; Reduced human intervention; Immediate response to anomalies
Dry contact switches/sensors	Counting / detecting products on conveyor belts	Identify losses and Line equipment calibration issues	Minimize loss of product Better understanding of process efficiency

*For complete list of sensors, contact us at salesteam@corvalent.com