

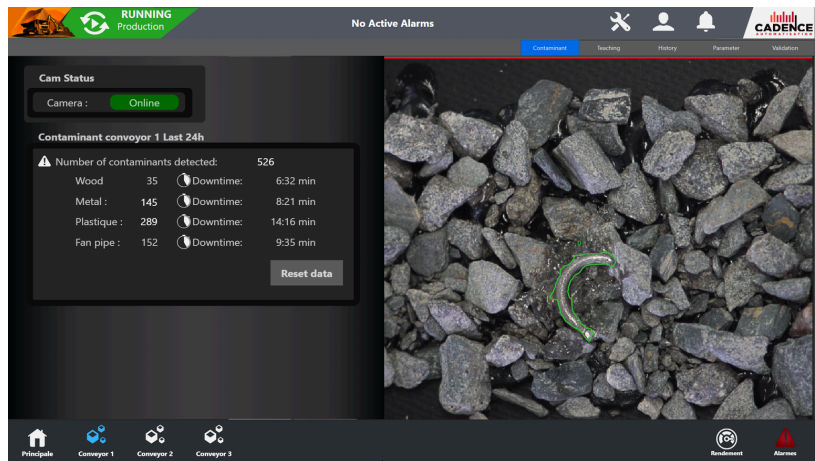
MOD-DC-CIA-101 AI-BASED CONTAMINANT DETECTION AND CLASSIFICATION MODULE



Pre-programmed and proven module that uses AI to continuously identify, categorize, and report contaminants in ore to protect equipment, optimize process quality, and reduce unplanned downtime.

Benefits & gains

- Reduced risk of mechanical breakdowns
- Fewer blockages
- Less human supervision required
- Improved operational efficiency
- Optimized production flow



Technical specifications

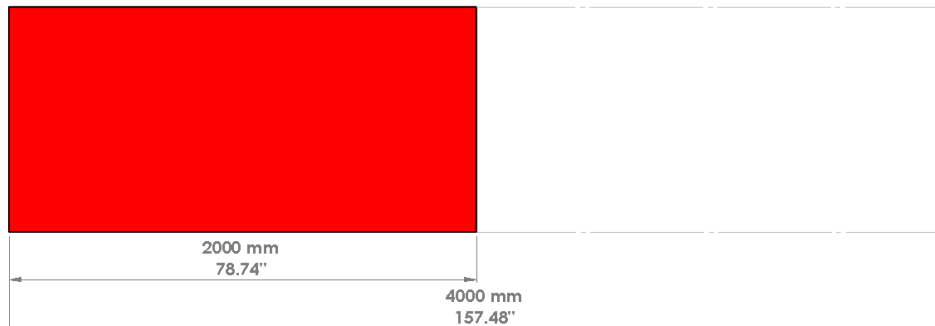
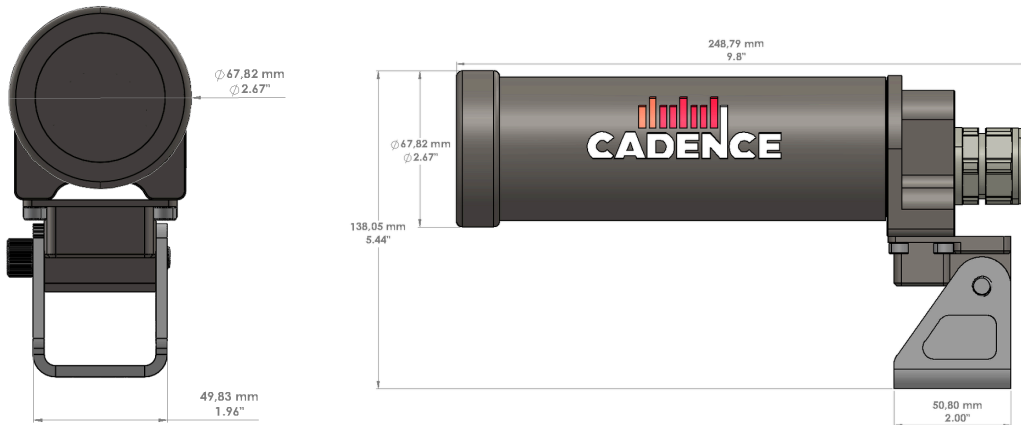
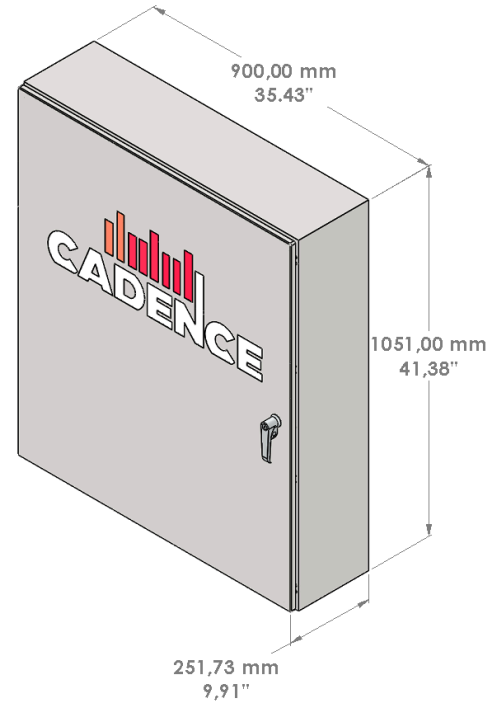
- Web-based HMI interface with secure remote access
- Multiple industrial communication protocols (including Ethernet/IP)
- Programmable inputs/outputs (I/O)
- Multi-camera module
- IP67 industrial panel, assembled and CSA certified

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CONTAMINANT DETECTION AND CLASSIFICATION

FEATURES	
Variant	Designed for harsh and abrasive environments
Technology	AI computer including high-performance CPU and GPU with pre-trained neural networks. High-resolution 2D camera.
Capacity	Compatible system for conveyors from 200-4000 mm
PERFORMANCE	
Maximum conveyor speed	3000 mm/s
Resolution (px/mm)	1.5
Field of view (FOV) [mm]	Can cover a conveyor up to 4000 mm wide
INTERFACE	
Ethernet speed	Gigabit Ethernet - 1000 Mbit/s
Visualization	WEB HMI with secure password access via IP
Digital inputs	8
Digital outputs	16
Communication protocol	Ethernet IP, Profinet, Modbus TCP, OPC UA, TCP/IP, MQTT, HTTP, UDP
ENVIRONMENT	
Operating temperature	0 °C to 50 °C
Storage temperature	-30 à 80 °C
DIMENSIONS	
Panel (PVIS)	900 mm (L) × 1051 mm (H) × 251 mm (D)
Camera enclosure	248.79 mm (L) × 138.05 (H) × 67.82 mm
Enclosure protection rating (IP)	Aluminium enclosure, IP67
Panel power supply	120 V AC
Current (A)	15 A



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