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BATTERY ARGUS

AI Battery Detection System

INTELLIGENT MULTI-SENSOR SYSTEM FOR BATTERY DETECTION IN E-WASTE OR GENERAL WASTE

WE SEE WHAT OTHERS CAN'T

Our AI-powered X-ray and Optical fusion identifies any kind of batteries inside complex waste —regardless of whether they are hidden inside devices, wrapped in plastic, or covered in dirt.



FIRE & EXPLOSION RISK

Even a single Li-ion battery can burn an entire processing line.



EQUIPMENT DAMAGE

Undetected battery assemblies cause catastrophic failures in equipment.



FINANCIAL & LEGAL LIABILITY

Non-compliance with safety and battery disposal regulations leads to massive fines.



KEY ADVANTAGES



Detects Hidden Hazards

Identifies batteries inside "black box" electronics invisible to standard sensors.



Prevent Shredder Fires

Safeguard your plant by removing ignition sources before mechanical processing.



Protect Profitability

Turn hazardous mixed waste into safe, compliant, and high-value material streams.

STOP SORTING BLINDLY. START DETECTING PRECISELY.

Flexible AI decision-making — adaptable to growing battery and e-waste streams.



AI-driven dual sensing (X-ray + Optical)



Li-ion & Ni-MH battery packs detection



Over 95% detection efficiency



Up to 10 t/h (material dependent)



1200 mm conveyor width



10–250 mm dimension of detected objects

BATTERY ARGUS

SEE HIDDEN BATTERIES.
PREVENT HIDDEN RISK.



KEY FEATURES



AI-DRIVEN DUAL SENSING TECHNOLOGY
AI-powered optical and X-ray recognition.



SEAMLESS LINE INTEGRATION
Real-time data and process control



HIGH-PRECISION DETECTION
Over 95% detection of batteries and battery-containing devices from target fractions.



ADJUSTABLE HIGH THROUGHPUT
2-10 t/h total stream throughput (material-dependent).
Optimized conveyor speed (0,5 - 1,0 m/s) for manual battery removal.



HAZARD & ASSEMBLY DETECTION
Instant identification of nickel and lithium batteries even inside casings.



CUSTOMIZED BATTERY REMOVAL CONFIGURATION
From manual battery picking with real-time detection guidance to fully automated rejection systems

INPUT MATERIAL

TYPE OF WASTE CONTAINING BATTERIES AND ELECTRONIC ASSEMBLIES



Mixed Municipal
Solid Waste (MSW)



Commercial
Waste



Biodegradable
Waste



WEEE (e-waste)
stream



Paper
Waste



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