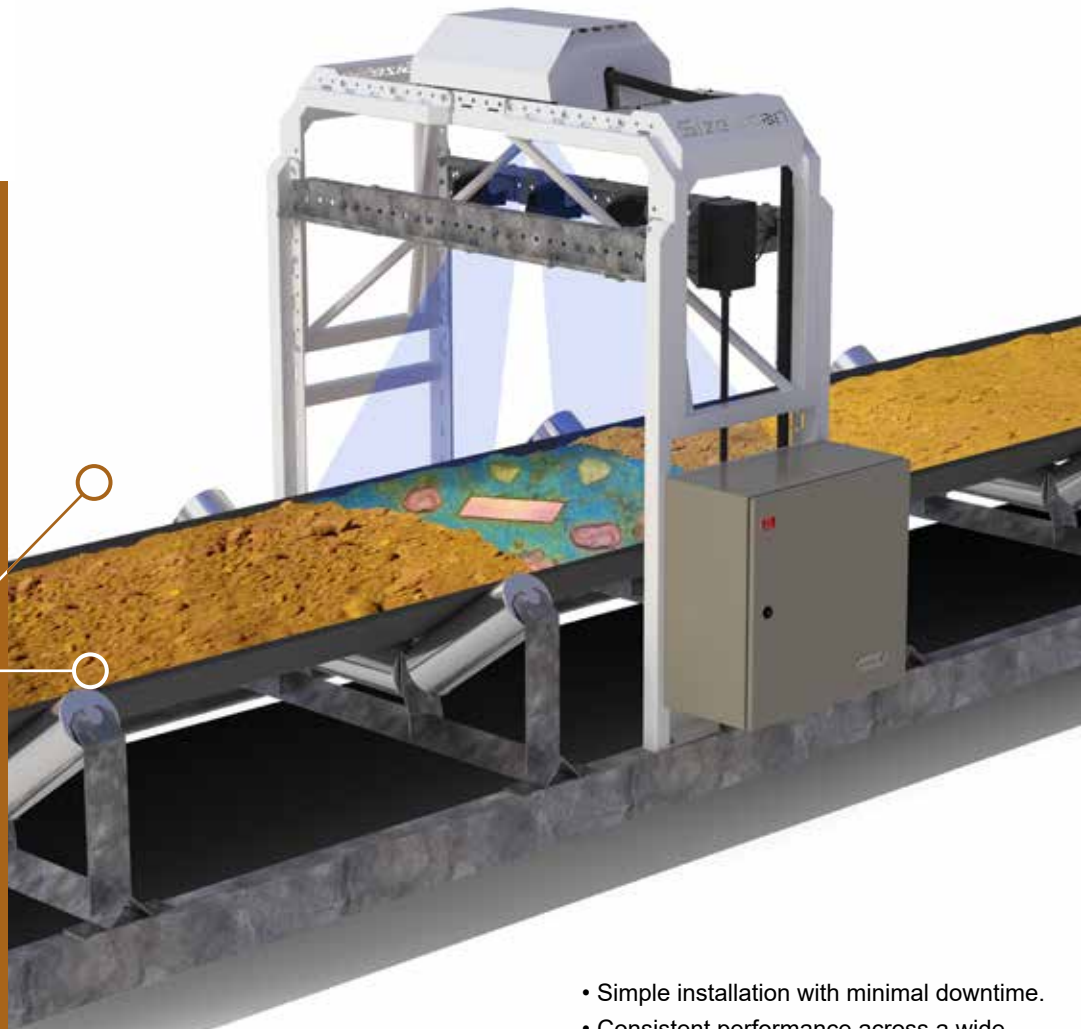


FOREIGN OBJECT DETECTION (FOD) ANALYSER



SizeScan™ Advantages

The SizeScan system is engineered to deliver real-time foreign object detection (FOD) for materials transported on conveyor belts. It leverages advanced camera vision and machine learning/artificial intelligence (ML/AI) to deliver real-time anomaly detection for conveyed bulk materials.

- Detects foreign objects on the conveyor and sends instant alerts to prevent equipment damage or blockages.
- Identifies contaminants to ensure material specifications are met.
- Utilises advanced computer vision algorithms with robust anomaly localisation for 24/7 real-time monitoring, eliminating manual inspection.

SizeScan™ Applications

Real-time FOD analysis provides active process control to make decisions that maximise the value of the product and minimise operating and maintenance costs.

Typical applications include:

- Detection and removal of unwanted objects that may cause damage or process interruptions.
- Continuous monitoring to maintain product quality and compliance with specifications.
- Process optimisation.

- Simple installation with minimal downtime.
- Consistent performance across a wide range of conveyed materials, without requiring regular calibration.
- Web-based interface accessible from anywhere on and off premise.
- Both hardware and software are developed and supported by Scantech, ensuring ongoing support.
- Operates without physical contact or interference with the conveyor or material flow.
- Can be a standalone analyser or integrated with Scantech's elemental and moisture analysers.
- Compensates for camera position and vibration, maintaining FOD accuracy.
- Adjustable frame bolts onto stringers.
- Easy once-off calibration process.
- Minimal maintenance.
- Flexible plant interface options.

- Automated sorting (e.g., waste streams).
- Grinding circuits.
- Equipment damage prevention.
- Scrap / foreign object detection.
- Empty belt detection.

SizeScan™ Description

The SizeScan FOD system employs cutting-edge camera technology and proprietary ML/AI models to detect anomalies in conveyed bulk materials. It is a non-contact system that does not interfere with conveyor operations and provides comprehensive real-time monitoring. The 3D Camera is a Class 1 Laser product and complies with IEC / EN 60825-1, presenting no eye or skin hazards.

Real-time outputs include:

- Anomaly Indicator: Continuous trend view of detected anomalies.
- Live Video Feed: Real-time video with heatmap overlays.
- Historical Detection Logs: Video recordings and data for review and analysis.
- Anomaly Distribution and Scoring: Quantitative insights into anomaly frequency and severity.



SizeScan FOD in operation with a depiction of the heatmap overlay.

- Daily Averages and Totals: Summary metrics for operational reporting.

The system is built with industrial-grade components for long-term reliability. Once installed and calibrated to site-specific conditions, the SizeScan delivers accurate and consistent results. The SizeScan's adjustable gantry frame suits a wide range of conveyor widths and material heights.

Scantech's Analysers

Scantech provides the recycling, energy, mining, coal, steel and cement sectors with analysers for a wide range of applications and environments. Scantech can deliver online solutions that suit your process, reduce your operating costs and minimise Health, Safety and Environmental risks for your operations. Whether you need to monitor moisture, ash, sulphur, mineral or energy content we have the right application for your needs and budget.

Real time analysis during the various phases of production provides operators with significant opportunities for plant optimisation and quality control. Over the past four decades, Scantech analysers have become a standard process control tool in the resources and recycling sectors. Scantech analysers are a fundamental component of companies' digital technology strategies utilising real time measurement systems to enable core processes to become fully integrated, autonomous, remote and automated.



Scantech Products have Patented Technology & Registered Trademarks

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Scantech Products

- GEOSCAN GOLD Premium On-belt Elemental Analyser for Minerals
- GEOSCAN-M On-belt Elemental Analyser for Minerals
- IRONSCAN 1500 On-belt Natural Gamma Iron Ore Analyser
- MINERALSCAN 1500 On-belt Natural Gamma Minerals Analyser
- MINERALSCAN 2100 On-belt Density Analyser
- Readimoist CM 200 On-belt Conductive Material Moisture Analyser
- GEOSCAN-Y Elemental Analyser for Slurry
- GEOSCAN-R On-belt Elemental Analyser for Recycling
- Readimoist TBM 280 Through Bale Moisture Monitor
- Readimoist CM 200-R On-belt Conductive Material Moisture Analyser for Recycling
- BALZSCAN 9500X On-belt Elemental Analyser for Alternative Fuels
- BALZSCAN 2100 On-belt Ash Analyser for Alternative Fuels
- Readimoist TBM 280 Through Bale Moisture Monitor for Alternative Fuels
- GEOSCAN-C On-belt Elemental Analyser for Cement
- BLENDSKAN Process Control for the Cement Industry
- Readimoist TBM 260 Through Bin Moisture Analyser for Concrete
- GEOSCAN-S On-belt Elemental Analyser for Steel
- Readimoist CM 200-S On-belt Conductive Material Moisture Analyser for Steel
- COALSCAN 9500X On-belt Elemental Analyser for Coal
- COALSCAN 1500 On-belt Natural Gamma Ash Analyser
- COALSCAN 2100 On-belt Ash Analyser
- CIFA 350 Carbon in Fly Ash Analyser
- Readimoist TBM 210/220/230/240 Through Belt Moisture Analysers
- Readimoist TBM 260 Through Bin Moisture Analyser
- SIZESCAN Particle Size Distribution Analyser

REPRESENTATIVE

