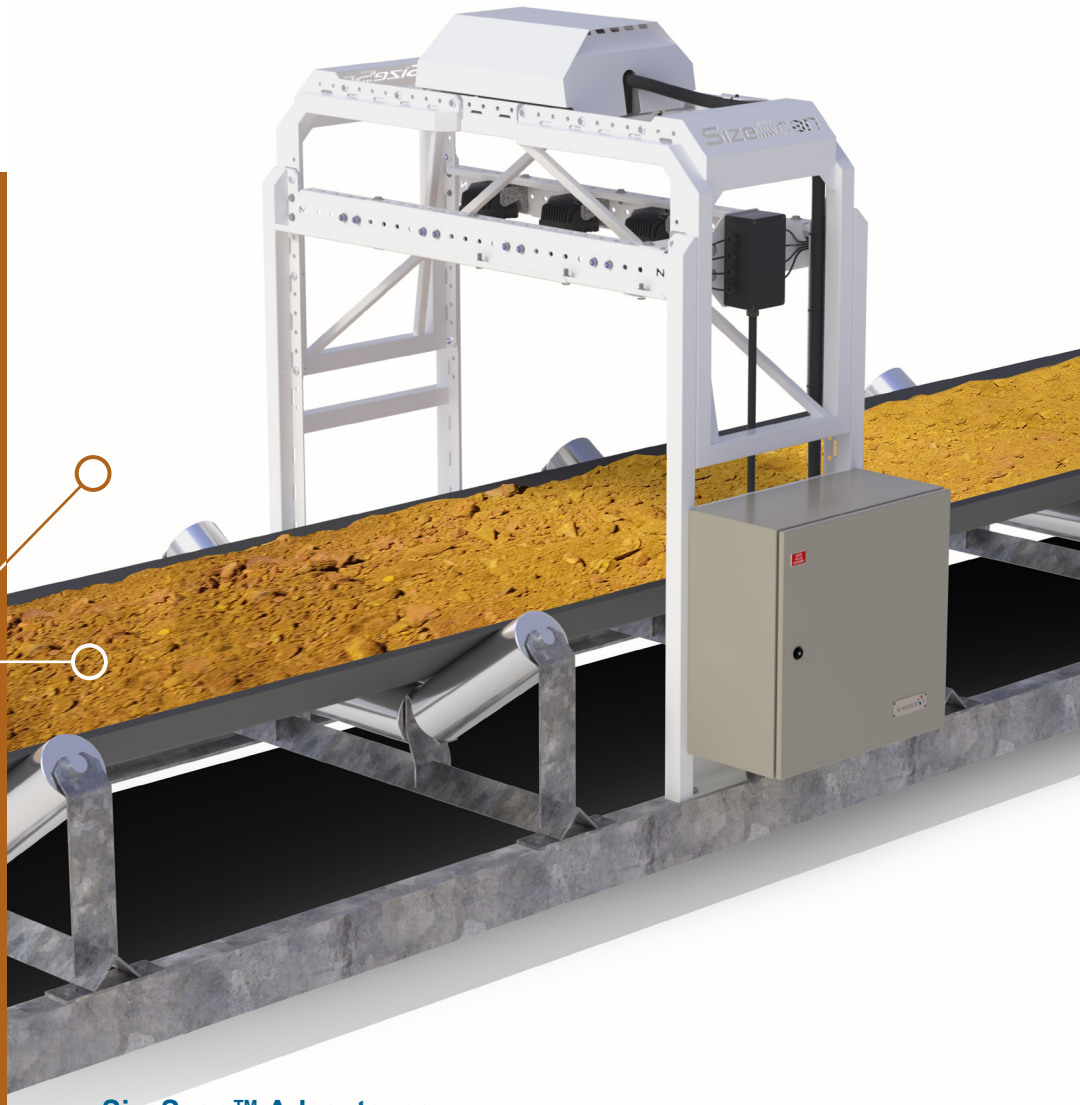
SizeScan

FOREIGN OBJECT DETECTION (FOD) ANALYSER



SizeScan™ Advantages

SizeScan delivers real-time foreign object detection (FOD) for conveyed materials using advanced camera vision and machine learning/ artificial intelligence (ML/AI).

- Detects foreign objects/anomalies and sends instant alerts to prevent equipment damage or blockages.
- Identifies contaminants to allow material specifications to be met.
- 24/7 real-time monitoring to eliminate manual inspection.
- Simple installation with minimal downtime.
- Consistent performance across a wide range of conveyed materials, without requiring regular calibration.
- Web-based interface accessible from anywhere.
- No physical contact or interference with conveyor or material flow.
- Standalone or integrated with Scantech 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.

SizeScan™ Applications

Real-time FOD analysis for active process control to maximise product value and minimise operating and maintenance costs.

Typical applications include:

- Scrap/foreign object detection.
- Equipment damage protection.
- Continuous monitoring to maintain product quality and compliance with specifications.
- Process optimisation.
- Grinding circuit protection.
- Empty belt detection.

SCANTECH
Process control specialists

CERTIFIED ISO 9001

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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

- **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**
- **BLENDSCAN 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**

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