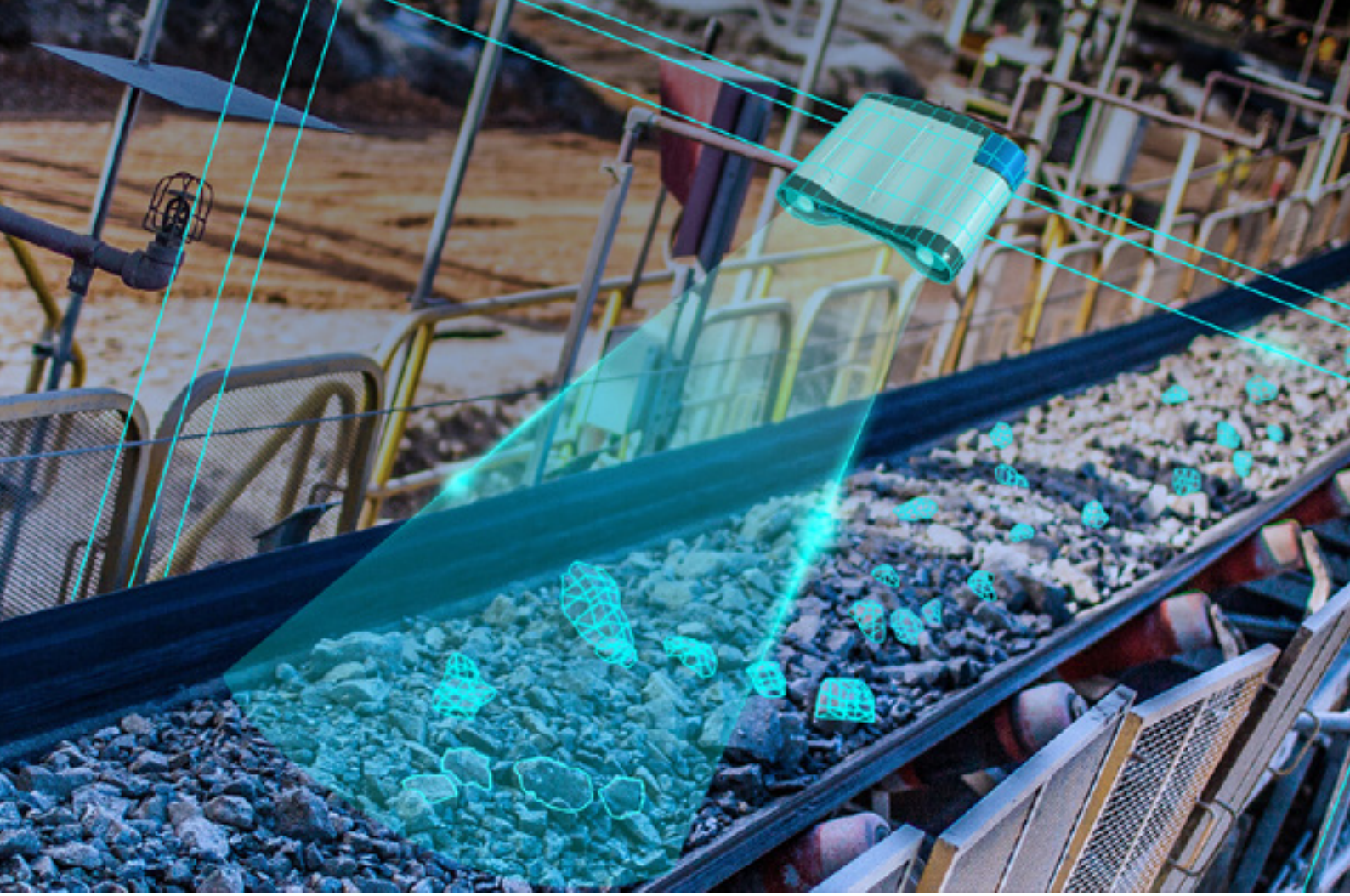


FRAGTRACK™ CONVEYOR

AUTOMATED MEASUREMENT ANALYSIS OF FRAGMENTATION DATA

FRAGTrack™ solutions can deliver sustainable improvements that:

- Reduce operating costs
- Improve productivity
- Improve safety
- Improve visibility of blast outcomes

FRAGTRACK™ ENABLES YOU TO:

- Improve comminution, throughput and energy consumption
- Optimise upstream and downstream processes
- Reduce downtime for camera maintenance and calibration
- Integrate, analyse and visualise data across multiple protocols and tools

FRAGTrack™

ORICA

ADVANCED BINOCULAR MACHINE VISION TECHNOLOGY

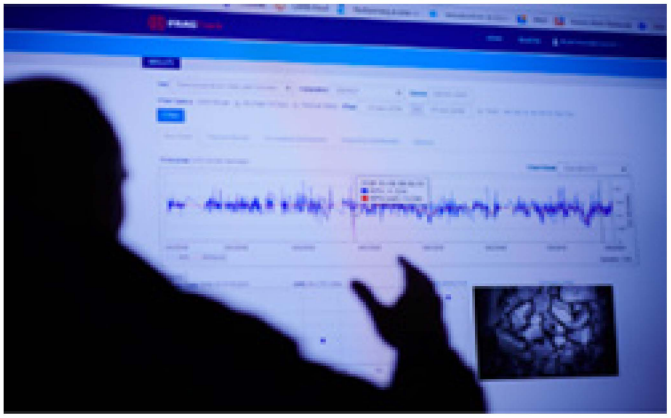
Unique hybrid 2D/3D imaging with proprietary triggering and filtering algorithms allow direct particle measurement as small as 5mm, reducing reliance on curve fitting for the smallest size fractions. Raw data and Rosin Rammler options are also available for modelling unmeasured fractions.

INSTALL, COMMISSION, OPTIMISE AND MAINTAIN WITHOUT ON-SITE HARDWARE SUPPORT

We will train and support your team through the installation and operation of FRAGTrack™. Once installed and connected to network, FRAGTrack™'s performance is optimised, maintained and updated without any requirement for the team to perform on-site hardware calibration.

3D MEASUREMENT

FRAGTrack™'s use of image depth in its 3D processing reduces the unseen fraction of material on the belt, minimising the requirement for belt cuts and associated downtime. The system also considers volumetric 3D analysis to improve the accuracy in determining size distributions. The 3D measurement estimates the instantaneous mass on the belt, offering a comparative measurement to weightometers.



WEB BASED INTERFACE FOR SUPERIOR ACCESS AND VIEWING OF REAL-TIME DATA

The use of cloud architecture offers a range of data transfer and integration points, promoting centralised collaboration amongst stakeholders; from the plant control room to the data science team.

ENGINEERED DATA INTEGRITY

Localised image processing and storage ensures data security and control through the preservation of both sample and processed data on the device in the event of communication failure.

PROPRIETARY PROCESSING AND TRIGGERING MECHANISM

FRAGTrack™'s sophisticated triggering mechanism guarantees only valid results are captured for analysis and includes checks for: stopped/empty belt, filtering of dust, light, textures and shadows, and omission of duplicate images.

TECHNICAL SPECIFICATIONS

- Machine vision digital stereoscopic cameras
- Configurable measurement frequency
- Each measurement contains full particle size distribution as user-configured set of bins
- Integration options for common communication and data transfer protocols
- Edge computing processor for autonomous triggering and analysis
- Wireless ethernet connection to site LAN/WAN
- Wireless communication (LTE and 2.4GHz WiFi supported)
- Supplied with 24VDC input power supply and lighting
- Ruggedised mounting hardware
- Operating ambient temperature range -30°C/+55°C (-22°F/131°F)
- Proprietary and continual image triggering development
- Filtering algorithms for lighting correction and image enhancement
- Device heartbeat polls units and reports system status, availability, and live feed of images

WHO SHOULD USE FRAGTRACK™ CONVEYOR:

- Process superintendent
- Production planners
- Mill operators and managers
- Metallurgists and metallurgy managers
- Business improvement (mine-to-mill) teams
- Mining, quarry, and civil engineers/consultants

To learn more about FRAGTrack™ Conveyor, please contact your local Orica representative, or visit orica.com/FRAGTrack

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