

#### **About Us**

BEC has a long history of developing and supporting innovative solutions, tailored for the mining and materials handling sectors.

#### These include:

- Berth Monitoring System (BMS)
- Laser Gap Detection System (LGAP).
- Laser Partially Dumped Ore Car (LPDOC).
- Anti-Collision System (ACS).
- Stockpile profiling system (SPS)

And now....

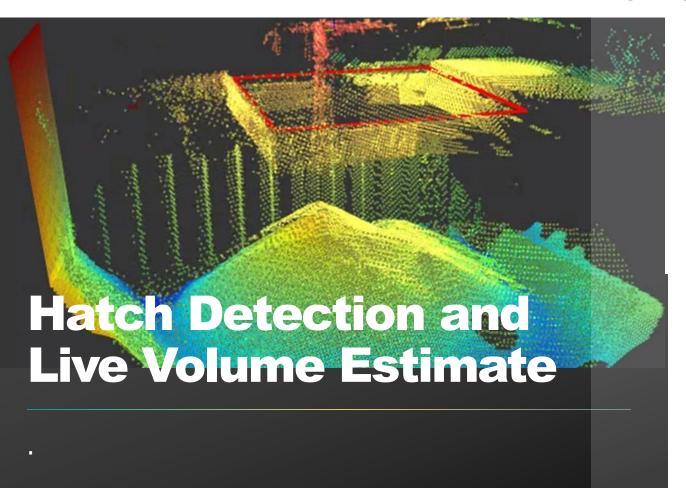


into the vault as well as active anti-collision.

# **Key Features**

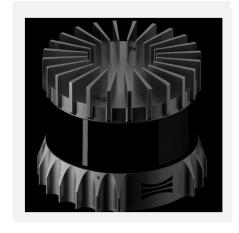
BCC

- Real-time hatch detection and ore flow tracking to ensure loading into an open hatch.
- Live volume estimate of material loaded in the ships hold.
- Integrated side and under boom Anti-collision to ensure safe hatch change and relocation operations.
- Full diagnostics and reporting.
- Optional historical data record for playback of events.

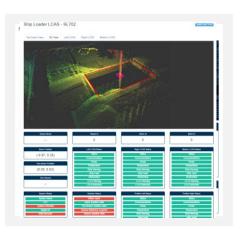


### **Key Features**













**High Accuracy** 

Utilizes industry leading 3D lidar scanners producing high definition and accuracy point cloud.

Reliable

Proven under the harshest conditions to operate 24/7 with no intervention.

**Full Visualisation** 

A real-time web-based user interface provides continual feedback, configuration and diagnostics.

Integration

Integrates seamlessly with standard PLC and SCADA systems via industry standard protocols.

Support

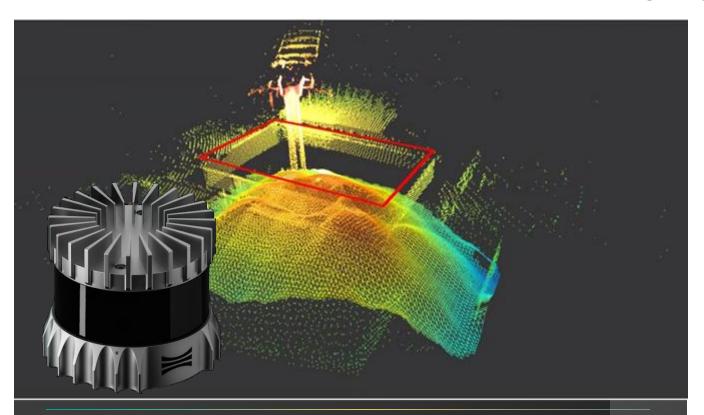
Ongoing remote technical support available.

## **Technology**

BCC

System incorporates the latest Ouster Lidar sensors:

- Ultra-Wide 128 Channel High Resolution scanning in 360 degrees providing complete coverage of area in front of the machine.
- Operates in harsh environments (IP68).
- Small, compact unit weighing less than 500 grams.
- Ethernet based communications transmitting over 500,000 points per second.



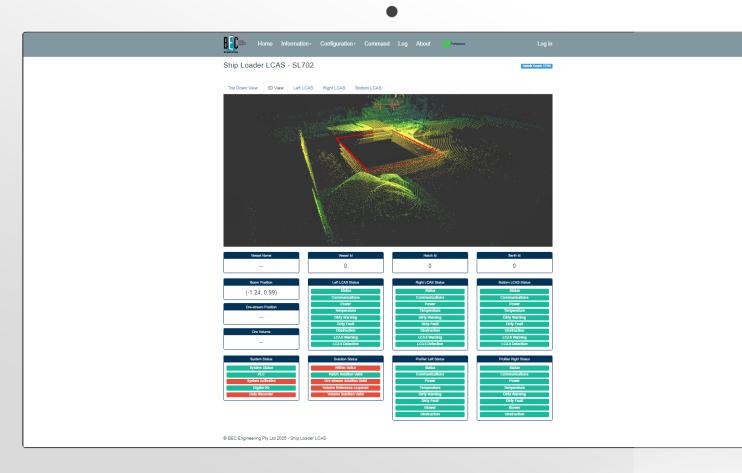
Ouster Lidars have been proven in mapping and scanning applications around the globe.

#### **Web-Based Visualisation**



SVPS provides real- time display of all critical data.

- Realtime visualization of the stockpile.
- Interfaces to machine PLC to provide critical alarms to stop the motion of the machine.
- Status and alerts.
- Configuration and diagnostics.
- Browser based UI. No additional software to install.



# **Turn-Key Design & Installation**

BEC can provide a complete turnkey solution, including:

- Full system supply, including mechanical frame and supports.
- Electrical Design and Drafting to Company standards.
- Control Systems Programming.
- Mechanical and Electrical Installation.
- Commissioning and Acceptance.
- Remote Support.



