

OWL EYE®



VOLUME FLOW

Volume flow measurement & conveyor belt health tracking

OWL EYE® volume flow module

What is OWL EYE® - Volume Flow Measurement & Conveyor Health Tracking?

The OWL EYE® volume flow module records volume and mass flows on conveyor belts in real time without contact - using a 2D LiDAR sensor. At the same time, it monitors the condition of the conveyor belt, enabling safe, efficient operation.



PRECISE VOLUME FLOW MEASUREMENT IN REAL TIME

Continuous detection of the material flow - precise, automated and contactless.



HEALTHY BELT, STRONG OPERATION

Early detection of misalignment, cracks and anomalies - for less downtime and a longer service life.



SIMPLE SYSTEM INTEGRATION

REST API, OPC UA & analogue interfaces - for easy integration into existing systems.



SUITABLE FOR INDUSTRIAL USE & LOW MAINTENANCE

Robust hardware, low-maintenance & IP65-certified - ideal for harsh industrial environments



OWL EYE® software - material flow at a glance

The browser-based software provides real-time data on material movements and stockpiles.

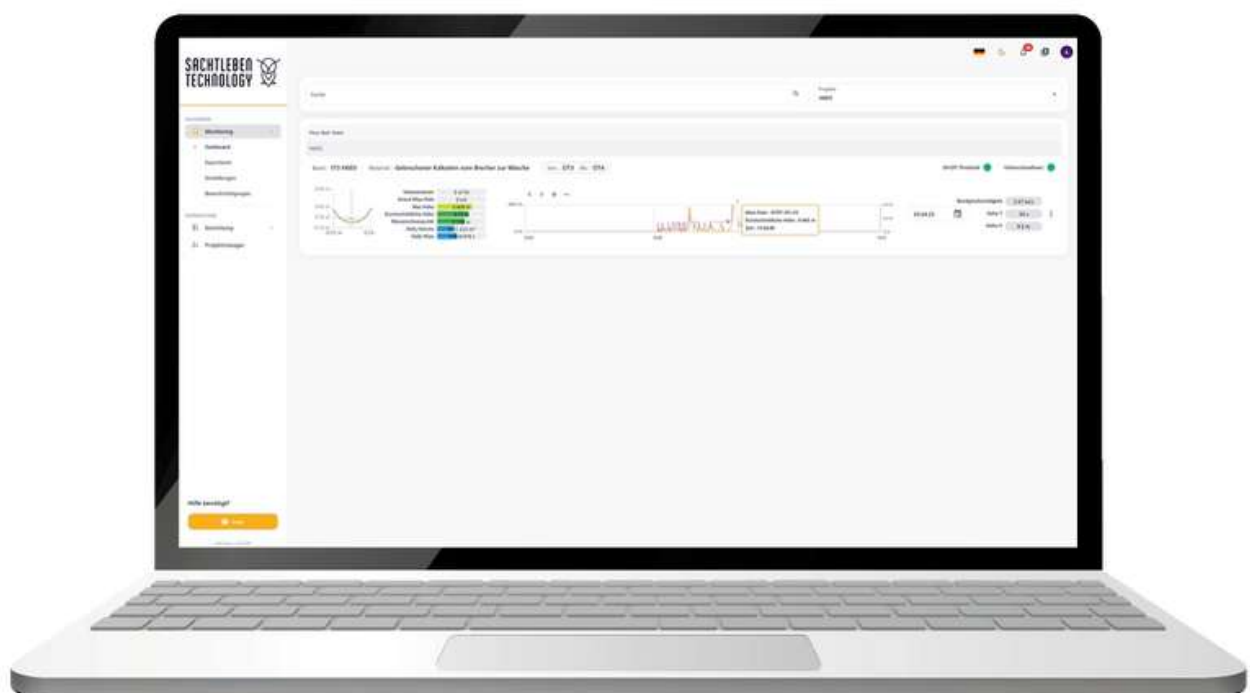
Dashboard shows, among other things:

- Material throughput (m^3/h , t/h)
- Profile heights (average & maximum values)
- Large objects in the material flow

Individually configurable through:

- Messintervall
- Colour coding
- REST API, OPC UA, Analogsignals

For well-founded decisions and efficient processes.



Technical data



MEASURING ACCURACY

Typical measurement deviation of the volume flow measurement: $\pm 1 \%$



MOUNTING HEIGHT

From 0.5 m to 1.5 m, depending on the 3D LiDAR sensor used Individually configurable for small halls to large outdoor warehouses.



TEMPERATURE RANGE

Operating temperature: -40°C to $+80^{\circ}\text{C}$ - Suitable for indoor and outdoor use in extreme conditions.



DATA TRANSMISSION

Wireless via WLAN, LTE or proprietary wireless solution

Wired via network cable (Ethernet) or fibre optics

The system also works without an existing infrastructure on site - but offers full connectivity to existing networks.



SENSOR CLEANING

Optional: automatic compressed air cleaning to minimise dust deposits.



Functions



BASIC FUNCTION: VOLUME FLOW MEASUREMENT & BELT HEALTH CHECK

Automated detection of material flow, belt misalignment, centre of mass and large objects



LOGGING OF ALL MEASURED VALUES WITH 2D PROFILE

Recorded section profiles are mapped and documented in two dimensions.



WARNINGS WHEN THRESHOLD VALUES ARE EXCEEDED

Automated reporting via: OPC UA, analogue signals, e-mail notification



WARNING IF CONVEYOR BELT HEIGHT IS EXCEEDED

Direct alerting for safety-critical material heights - also via: OPC UA, analogue signals, e-mail



HISTORICAL RECORDS OF THE MEASUREMENT DATA

All measurement data is recorded historically - for seamless analyses, trend evaluations and predictive maintenance.



**We are your partner for the digitalisation of your company.
With our Owl Eye volume flow module and the expertise of our
team, you can take the recording and calculation of your material flow
to a new level: modern, digital, accurate.**



Sachtleben Technology GmbH
Tresdorf 6
24238 Mucheln
+49 7831 969 22-190
info@sachtleben-technology.com
www.sachtleben-technology.com



A company of the:

SACHTLEBEN MINERALS 



Deutsche Baryt-Industrie



Sachtleben Bergbau