

Revolutionizing Material Monitoring

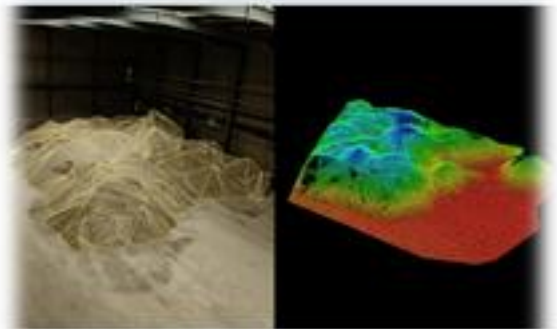
emsProductFocus18-LidarVolumes

Revolutionizing Material Monitoring – Accurate Volumes, No Guesswork

Guessing the size of a material heap in cubic meters? It's risky, especially with high-value stuff like gold spoils – one wrong estimate can cost thousands.

The Problems with Old Methods:

- Manual estimates or basic imaging: Always inaccurate, especially on irregular heaps.
- Drone flyovers are rare: You get historic snapshots, not real-time data.
- Key questions go unanswered: How much was delivered? How long will the stock last? What's the daily/average usage?
- No reliable tracking: Additions, losses, or theft slip through unnoticed.
- High stakes = high risk: Guessing isn't an option when money or operations are on the line.



EMS's Cutting-Edge Solution: FlashEye Lidar Pods FlashEye Lidar with **LidarVolumes** technology gives you precise, automated 3D volume monitoring – 24/7, no drones, no humans needed, no guesswork.

How It Works (Smart, Autonomous & Precise):

- **3D Zone Creation:** Define virtual monitoring zones anywhere on the heap – set boundaries once via simple PC interface.
- **Continuous Lidar Scanning:** Pods mounted overhead scan the pile in real time – build accurate 3D models automatically.
- **Self-diagnosing & Unaided Operation:** Runs 24/7 with built-in checks – makes decisions and reports independently.
- **Instant Volume Calculation:** Measures heap volume in m³ down to high accuracy – tracks changes second by second.
- **Max/Min Level Alerts:** Detects additions (deliveries) or losses (usage/theft) – notifies you immediately.
- **Object Detection:** Spots people, vehicles, or other intrusions in the zone – adds safety and security.

Key Features That Deliver Real Results:

- **Real-Time Volume Measurement:** Know exact m^3 at any moment – no estimates.
- **Max/Min Monitoring:** Tracks stock levels automatically – see daily usage, trends, or sudden changes.
- **Human/Vehicle/Object Detection:** Safety bonus – alerts if unauthorized access or equipment enters the zone.
- **Easy Lidar View Setup:** User-friendly PC interface to configure zones, alerts, and views – no complex coding.
- **Seamless Integration:** Connects to external systems (SCADA, ERP, dashboards) for automated reporting.
- **All-Weather Toughness:** Works Day/night, through dust, fog, or rain – IP67 enclosure + industrial PC built for harsh sites.
-

Why You'll Love It:

- **Zero guesswork:** Precise, real-time data answers every question – delivered vs. used, stock remaining, daily burn rate.
- **24/7 reliability:** Fully automated – no operators, no drones, no downtime.
- **Cost & risk reduction:** Catch discrepancies early – prevent losses, optimize deliveries, improve planning.
- **Safer & more secure:** Object detection adds protection around valuable stockpiles.
- **Durable & low-maintenance:** Rugged design thrives in mining environments – long-term performance.
-



Say goodbye to estimates and historic drone shots – hello to accurate, always-on material monitoring that gives you control and confidence.



Ready to eliminate guesswork and get precise heap volumes in real time?

Contact EMS today to learn more about FlashEye Lidar Pods with LidarVolumes – and upgrade your material monitoring to the future of accuracy and efficiency.

Precision measured. Guesswork gone. Operations optimized. 