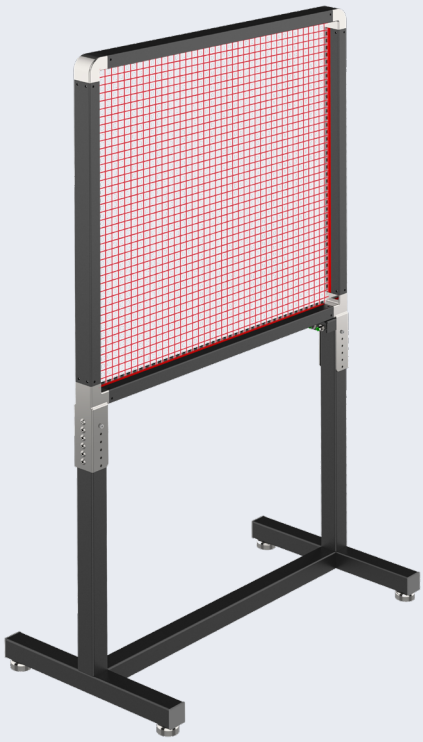
BOSCHE
WEIGHING SYSTEMS

Volume Light Curtain *VLG*



Functions & Features

- Easy-to-integrate measuring frame (measuring gate) for belt and roller conveyors
- Robust measurement of length, width, height, position and orientation for objects of virtually any shape
- Capture of 3D dimensions and volume (L/W/H plus calculated volume)
- Automatic calculation of bounding-box volume and pseudo volume (real-volume approximation)
- Reliable capture even with challenging materials and surfaces
- Modular and expandable — ideal for bespoke requirements and OEM solutions
- Seamless integration into existing conveyor systems
- Compatible with ERP and WMS systems
- Controlled and operated via a BOSCHE industrial PC
- Data capture and processing via the supplied VolumeScannerProfessional software







+49 (0) 5491.999.689.0
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BOSCHE Volume Measurement System
In e-commerce and fulfilment, accurate master data is the foundation for efficient warehouse management, precise picking and correct freight rating. That makes reliable capture of dimensions, volume and object contours essential — especially when handling a wide variety of parcels. Our volume light curtain forms a robust measuring gate above the conveyor and automatically records 3D dimensions directly in the material flow. The result is dependable real-time data — without manual measuring effort.

Volume measurement & operation
The system measures length, width, height and the volume of the smallest cuboid that completely encloses the object — regardless of shape or surface. Bulky or deformed parcels are detected reliably. Fully automated data capture during operation delivers high system availability, maximum process reliability, and an ideal basis for optimising storage space as well as shipping and freight costs.

Typical applications
Parcel and piece-goods dimensioning, master data capture at goods-in, shipment capture and documentation, dispatch and parcel recording, air-freight / freight checks, and geometric master data for on-demand packaging solutions.

Optional extensions
Inline weight capture via an in-motion checkweigher; barcode capture (fixed multi-side scanner for up to five sides simultaneously, or handheld scanner) for unambiguous assignment of items/load carriers; image documentation via an industrial camera (automatic saving to a network drive) for proof of condition of goods, returns and claims management, process analysis and quality assurance. Further configurations available on request.

Design & integration
Compact, robust and low-maintenance light-curtain frame for straightforward integration into existing logistics systems — engineered for continuous industrial operation.

Technical data
Device dimensions (W × H): 1105 × 875 mm · Max. measuring object (W × H): 850 × 640 mm · Measurement resolution: 2 mm · Power supply: 230 V AC · Modular expansion (camera, scale, scanner, etc.).



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BOSCHE GmbH & Co. KG
Reselager Rieden 3
49401 Damme