



VIPAC D - 3D Volume Measurement of Cuboidal and Arbitrary Goods

The volume measurement system VIPAC D

- is a certified system and therefore allows to create invoicing automatically and legally binding revenue recovery
- can be easily installed as a stand-alone set-up or integrated into the camera-based identification system VIPAC

VIPAC D

- measures the volume of cuboidal and irregular objects during movement of conveyors and sorters
- provides maximum measuring accuracy
- detects defects on five object sides (option)

Mode of operation

VIPAC D determines the maximum dimensions of the objects from the measured values. The system calculates the dimensions of the smallest possible rectangular box surrounding the item. This information provides the basis for:

Automatic invoicing and revenue recovery

Using VIPAC D and its tamper-proof alibi storage, it is possible to create invoices automatically and to reconcile package data to information provided by the customer.

Loading optimization

Volume data is the basic information for calculating transport capacities and for optimizing the loading of vehicles. This means that the capacity utilization increases and the route planning can be further optimized. This also leads to a reduction of CO₂ emissions.

Customer benefits

- measurement of dark items
- easy calibration with GUI wizard
- maintenance-free as there are no moving parts
- lowest laser class, no protection needed

Standard equipment

- 2 sensors VOLUMECH^{hd}
- processing unit with VIPAC volume measurement software
- speed signal device
- trigger (software or photo eye)
- cable set
- certification for calibrated operation
- touchscreen for displaying all measured values
- mounting points
- alibi storage

Options

- non-certified operation
- frame or construction drawing
- VIPAC R system for code reading and OCR

Statistics

The recorded data can be fed into statistics databases to streamline the internal flow of goods. In addition, the data can be used to monitor price structures and logistics processes.

Shape analysis

VIPAC D recognizes defects and packages which deviate from predetermined criteria. Even the convexity of parcels can be identified.



Technical specifications	
Object type	cuboidal / irregular objects
Sensor	2 sensors
External dimensions (HxWxL)	257mm x 706mm x 85mm 10.1in x 27.8in x 3.3in
Scans per second	500Hz
Weight per sensor	8kg / 17.5lbs
Laser class	1 (EU) / I (USA)
Switchgear cabinet	
External dimensions (HxWxL)	400mm x 600mm x 210mm 15.8in x 23.7in x 8.3in
Weight	7.5kg / 16.6lbs
Display, option	
External display	industrial 10" touchscreen
Standard frame	
Frame height	2,100mm / 82.7in + conveyor belt height
Frame width	655mm / 25.8in + conveyor belt width
Length	605mm / 23in
Foundation	vibration-free
Conveying technology	
Height	standard up to 900mm / 36in
with conveyor belt / sorter	
- measuring width	1,000mm / 40in
- max. object dimensions (HxWxL)	1,000mm x 1,000mm x 2,500mm 40in x 40in x 100in
- min. measured value output (HxWxL)	25mm x 25mm x 25mm 1in x 1in x 1in
- belt speed	up to 3.0m/s / 600fpm constant speed
Measuring accuracy (HxWxL)	5mm x 5mm x 5mm 0.2in x 0.2in x 0.2in
- cuboid, non-cuboid	
Distance between objects	50mm / 2in
Interfaces	serial data output (RS232) network connection
Line voltage	230V AC, 2.5A / 115 VAC, 5A / approx. 150W
Operating temperature	+0°C to +40°C / 14°F to 104°F
Degree of protection	IP65

NTEP certification in USA	
Object form	rectangular box
Measurement precision (HxLxW)	5mm x 5mm x 5mm 0.2in x 0.2in x 0.2in
Min. object size (HxLxW)	60mm x 60mm x 60mm 2.4in x 2.4in x 2.4in
Max. object size (HxLxW)	1,000mm x 1,000mm x 2,000mm 40in x 40in x 79in
Object speed	up to 3.0m/s up to 600fpm

