



**VITRONIC**  
the machine vision people



VOLUME HD

# MILLIMETER PRECISION IN MOTION



## Efficient Volume Measurement

The logistics industry constantly faces the challenge of being able to process ever-increasing numbers of shipments within ever-shrinking timeframes. VOLUME HD is the efficient solution for meeting this challenge head on. This automated 3D volume measuring system reliably captures all types of shipments and enables conveyor speeds of up to 3.0 m/s. The system is also MID\* certified and approved for legal-for-trade applications.

\*European Measuring Instruments Directive

## Maximum Precision

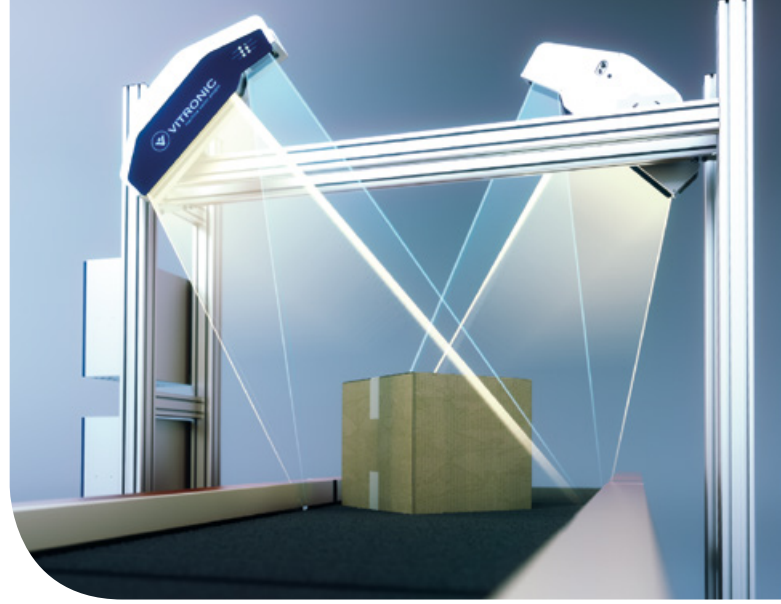
VOLUME EC HD offers maximum measurement accuracy and easy handling to ensure a smooth flow of goods. Thanks to innovative laser and camera technology, volumes can be calculated with precision—even for very flat or dark-colored objects. All of the captured data is displayed in real time in the 3D live view, which is integrated into the user interface.

VOLUME EC HD can be operated as a stand-alone solution or can easily be integrated into existing VIPAC Auto-ID systems. The measuring system is also easy to calibrate, is maintenance free, and requires no safety protection because it uses the lowest laser class.

## Optimized Processes

VOLUME EC HD plays an important role in process optimization. Its seamless, high-precision capture of volume data guarantees efficient route planning by enabling optimized usage of loading space and storage capacities.

In addition, the tamper-proof data that is generated and stored provides a basis for automatic invoicing, and enables an automatic comparison of the customer's package information with the actual captured data.



## Technical Data

<b>Conveyor speed</b>	up to 3.0 m/s
<b>Measuring width</b>	1,000 mm
<b>Distance between objects</b>	50 mm
<b>Sensor – outside measurements</b>	257 mm x 709 mm x 85 mm
<b>Weight</b>	8 kg
<b>Scans per second</b>	500 Hz
<b>Laser class</b>	1 (EU), I (USA)
<b>Protection class</b>	IP54
<b>Interfaces</b>	Ethernet, serial
<b>Operating temperature</b>	0 to 40 °C

## Certification

System	Measurement accuracy (L x W x H)	Package dimensions (L x W x H)	Object shape	Speed	Certification
VIPAC D1 1x VOLUME EC HD	10x10x5 mm 10x10x2 mm (opt.)	min. 100x100x20 mm max. 2500x1000x1000 mm	cubical	max. 3 m/s	MID <sup>1)</sup> , OIML <sup>2)</sup>
VIPAC D2 2x VOLUME EC HD	5x5x5 mm 5x5x2 mm (opt.)	min. 50x50x20 mm max. 2500x1000x1000 mm	cubical	max. 3 m/s	MID <sup>1)</sup> , OIML <sup>2)</sup>
VIPAC D2 2x VOLUME EC HD	10x10x10 mm	min. 100x100x100 mm max. 2500x1000x1000 mm	irreg.	max. 3 m/s	MID <sup>1)</sup> , OIML <sup>2)</sup>
VIPAC D1 1x VOLUME EC HD	5x5x5 mm	min. 50x50x50 mm max. 2500x1000x1000 mm	cubical	max. 3 m/s	NTEP <sup>3)</sup>

<sup>1)</sup> European Measuring Instruments Directive

<sup>2)</sup> Organisation Internationale de Métrologie Légale – International Organization for Legal Metrology

<sup>3)</sup> National Type Evaluation Program, USA