



# OIML Certificate

**OIML Member State**  
The Netherlands

Number R129/2000-A-NL1-20.04 revision 1  
Project number 2592849  
Page 1 of 4

Issuing authority

NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and  
Manufacturer

VITRONIC Dr. -Ing. Stein Bildverarbeitungssysteme GmbH  
Hasengartenstraße 14  
65189 Wiesbaden  
Germany

Identification of the  
certified type

**A Multi-Dimensional Measuring instrument**  
Type : VIPAC D BNVS  
VIPAC D CNVS  
VIPAC D TNVS

Characteristics

See next page

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

## OIML R 129 - Edition 2000

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified. This Certificate does not bestow any form of legal international approval.

*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**  
13 July 2021

Certification Board

NMi Certin B.V.  
Thijsseweg 11  
2629 JA Delft  
The Netherlands  
T +31 88 6362332  
certin@nmi.nl  
www.nmi.nl

This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

The notification of NMi Certin B.V. as Issuing Authority can be verified at [www.oiml.org](http://www.oiml.org)

This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.



The conformity was established by the results of tests and examinations provided in the associated OIML Type Evaluation Report:

- No. NMI-2592849-01 dated 13 July 2021 that includes 10 pages.

## Characteristics of the multi-dimensional measuring instrument

The VIPAC D xNVS uses two VOLUME HD 3.x sensor heads to record the dimension of objects. Measurement of objects on a conveyor band may be done dynamically or statically in a start-stop scenario.

Principle of operation	reflection of light	
Measuring ranges	Single interval Multi-interval	
Maximum number of partial measuring ranges	2 (for height measurement only)	
Speed range	$30 \text{ m/min} \leq v \leq 180 \text{ m/min}$ $0,5 \text{ m/s} \leq v \leq 3,0 \text{ m/s}$	
Electromagnetic environment class	E2	
Mechanical environment class	M2 M3 for modules directly mounted on the conveyor (SSMD)	
Climatic environment	temperature range	-10 °C / +55 °C
	humidity	non-condensing
	intended location	closed
Power supply voltage	100 – 240 V AC 50/60 Hz	
Method of operation	automatic	
Limitations of use	Rectangular or irregular shaped objects with opaque regular surfaces	
Minimum spacing between successive objects	spacing $\geq 50 \text{ mm}$	

Configuration VIPAC D BNVS	- For belt conveyors and any conveyor that has a flat surface - Speed measurement is performed using a shaft encoder			
	Length	Width	Height	
Maximum dimension	max	$\leq 2500 \text{ mm}$	$\leq 1000 \text{ mm}$	$\leq 50 \text{ mm}$ $\geq 50 \text{ mm}$ $\leq 1000 \text{ mm}$
Minimum dimension	min	$\geq 50 \text{ mm}$	$\geq 50 \text{ mm}$	$\geq 20 \text{ mm}$
Scale interval d	d	$\geq 5 \text{ mm}$	$\geq 5 \text{ mm}$	$\geq 2 \text{ mm}$ $\geq 5 \text{ mm}$

Configuration VIPAC D CNVS		- For crossbelt sorters or any sorter-like conveyor that has a flat surface - Speed measurement is performed using SSMD device			
Maximum dimension	max	Length	Width	Height	
		≤ 1600 mm	≤ 1500 mm	≤ 50 mm	≥ 50 mm ≤ 800 mm
Minimum dimension	min	≥ 50 mm	≥ 50 mm	≥ 20 mm	
Scale interval d	d	≥ 5 mm	≥ 5 mm	≥ 2 mm	≥ 5 mm

Configuration VIPAC D TNVS		- For tray-equipped conveyors with entirely or partially visible and uniform trays of any shape - Speed measurement is performed using SSMD device - Objects may extend across multiple trays (if configured)			
Maximum dimension	max	Length	Width	Height	
		≤ 1600 mm	≤ 1000 mm	≤ 50 mm	≥ 50 mm ≤ 1000 mm
Minimum dimension	min	≥ 50 mm	≥ 50 mm	≥ 20 mm	
Scale interval d	d	≥ 5 mm	≥ 5 mm	≥ 2 mm	≥ 5 mm

Software identification for VOLUMECH HD 3.x sensor heads:

<u>Checksums with image 4.13.x</u>			
Program module	Checksum (CRC)	Version	Optional
conveyeventd	E6D0	2.5.0	no
FPGA IP-Core	-	2.1.0	no
libvipacdconveyevent.so	F0EE	2.4.0	no
libzynqboardvolumechd.so	5205	3.0.9	no
pointd	1AB3	2.6.1	no
<u>Checksums with image 4.10.x</u>			
Program module	Checksum (CRC)	Version	Optional
conveyeventd	F9C3	2.2.1	no
FPGA IP-Core	-	2.1.0	no
libvipacdconveyevent.so	A996	2.2.9	no
libzynqboardvolumechd.so	5205	3.0.9	no
pointd	2269	2.4.2	no

The software will show the software identification on the terminal by the ViLogger software (see 2.2.1) after selecting:

- Press "Menu";
- Press "Info";
- The software identifications are shown in the drop-down menu of the VolumechHD sensors.



**OIML Member State**  
The Netherlands

# OIML Certificate

Number R129/2000-A-NL1-20.04 revision 1  
Project number 2592849  
Page 4 of 4

## Revision History

This revision replaces the previous version.

Revision	Date	Change(s)
Initial	16 September 2020	Initial issue
1	13 July 2021	Version with tray-equipped conveyor tested, software versions detailed, earlier test reports moved into the latest test report.