

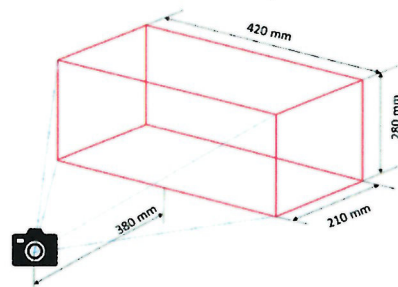
Acceptance test certificate

Tested system: PhotoGAUGE with Samsung S20 (Video) – working distance 45cm
 Test procedure: VDI/VDE 2634 part 3
 Document No. JHS-IAPG-2021-03-03_PG_S20
 Date of certification: 03.03.2021

Measurement set-up

The results refer to the following acquisition and processing chain. The data acquisition in video mode for processing was carried out at the Institute for Applied Photogrammetry and Geoinformatics at the Jade University of Applied Sciences (IAPG) in Oldenburg, Germany. For system scale definitions a system scale bar by PhotoGauge was provided. The test artefact was placed on a turntable in 6 different positions within the measurement volume of the fixed camera. The camera's field of view covers a cubic measurement volume of 42 cm (L) x 28 cm (B) x 21 cm (D) at its working distance of 45cm. The videos were transferred to the data processing chain of the system manufacturer. All photogrammetric processing steps were solely carried out by the system manufacturer. The parameters of the acceptance test according to VDI/VDE 2634 part 3 are subsequently calculated using the delivered point clouds from the manufacturer's processing. No temperature correction was applied to the analysed point clouds. The results refer to the time of data acquisition.

The work was carried out in accordance with recognised rules of engineering technology.



General test information

Date of data acquisition	04.12.2020
Temperature during data acquisition	19° ± 0.5°
Camera Type	Samsung S20+
S20+ serial no.	RZ8NA17V6FY
Operator	Heidi Hastedt, M.Eng.

Test artefact

Manufacturer	Ingeniera y Servicios Metrologia Tridimensional S.L.
Certificate No.	ISM 2019-03-17-04
Artefact model	Dumbbell L125 D75
Date of calibration	17.3.2019
Reference temperature	20°C
Artefact uncertainty (k=2)	
Center distance	1.7µm
Diameter	2µm
Sphere diameter ball 1	75.58414mm
Sphere diameter ball 2	75.72714mm
Center distance	123.84185mm

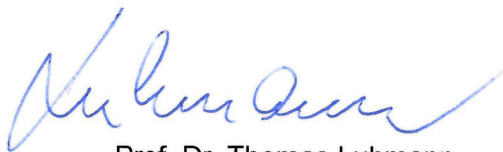
Test results

The results are given as span (min/max) out of 18 repeated measurements.

Probing error (size)		
Ball 1 (range from .. to)	-0.19054 mm	-0.01954 mm
Ball 2 (range from .. to)	-0.14194 mm	0.00546 mm
Sphere-spacing error		
(range from .. to)	-0.08989 mm	0.13497 mm

Date of certification: 03.03.2021

Signature



Prof. Dr. Thomas Luhmann