

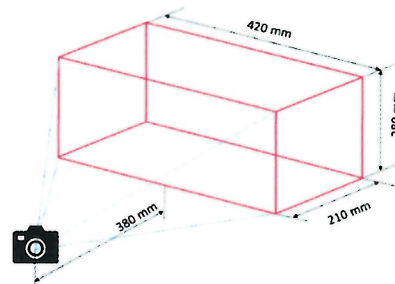
## Acceptance test certificate

Tested system: PhotoGAUGE with Samsung S20+ (Video) – working distance 45cm  
 Test procedure: VDI/VDE 2634 part 3  
 Document No. JHS-IAPG-2021-09-15\_PG\_S20+Vshort  
 Date of certification: 20.09.2021

### 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	04.08.2021
Temperature during data acquisition	25.1° ± 0.1°
Camera Type	Samsung S20+
Device serial no.	RZ8NA17V6FY
Video Mode	UHD30
Operator	Heidi Hastedt, M.Eng. Niklas Seute

### 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)	-0.06714 mm	0.12886 mm
Ball 2 (range from .. to)	-0.04994 mm	0.10726 mm
Sphere-spacing error		
(range from .. to)	-0.12263 mm	0.29286 mm

Date of certification: 20.09.2021

Signature



Prof. Dr. Thomas Luhmann

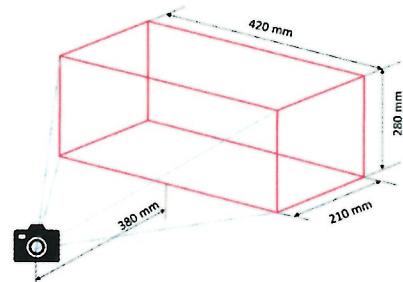
## Acceptance test certificate

Tested system: PhotoGAUGE with Samsung S21+ (Video) – working distance 45cm  
 Test procedure: VDI/VDE 2634 part 3  
 Document No. JHS-IAPG-2021-09-15\_PG\_S201+Vshort  
 Date of certification: 20.09.2021

### 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	04.08.2021
Temperature during data acquisition	24.7° ± 0.2°
Camera Type	Samsung S21+
Device serial no.	RFCR60JGF1F
Video Mode	UHD 30
Operator	Heidi Hastedt, M.Eng. Niklas Seute

### 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

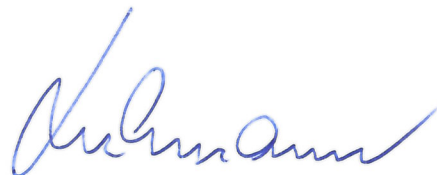
### Test results

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

Probing error (size)		
Ball 1 (range from .. to)	-0.16614 mm	-0.01114 mm
Ball 2 (range from .. to)	-0.16614 mm	0.00586 mm
Sphere-spacing error		
(range from .. to)	-0.20355 mm	0.07830 mm

Date of certification: 20.09.2021

Signature



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