

Calibration Certificate

Model: Focus 3D X 330

Serial Number: LLS071507298

Certificate Number: LLS07298-20171004-EU

Certification Date: 4-Oct-2017

Measurement Items Used, Traceable to National Standards

Laser Tracker

Model: Vantage

Serial No.: V01001404773

Cert. No.: V4773-2712017-EU

Cert. Date: 27-Jan-2017

Reflectance Targets

Model: Spectralon Target 90%

Serial No.: CTE00284

Cert. No.: 16121416

Cert. Date: 14.12.2016

Model: Spectralon Target 10%

Serial No.: CTE00285

Cert. No.: 16121401

Cert. Date: 14.12.2016

Calibration Results

Ranging

Target	Distance [m]	Uncertainty, k=1 [mm]	Scanner [m]	Deviation [mm]	Specifications	Result
EU14	9,4028	0,496	9,4010	1,9	2,0	pass
ZK21	23,4990	0,496	23,4995	-0,5	2,0	pass

Ranging Noise

Reflectance	Distance	Uncertainty, k=1 [mm]	Scanner	Specifications	Result
90%	10 m	0,067	0,16	0,30	pass
	25 m	0,067	0,19	0,30	pass
10%	10 m	0,067	0,23	0,40	pass
	25 m	0,067	0,42	0,50	pass

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The results of this certificate relate only to the items calibrated or tested.
The calibration is done at FARO or FARO Scanner Production operations sites according to FARO test protocols integrating guidelines defined in the Joint Committee for Guides in Metrology guidance document JCGM 100:2008 - Evaluation of measurement data - Guide to the expression of uncertainty in measurement, and the requirements for traceability according to the International Vocabulary of Basic and General Terms in Metrology (VIM) and the National Institute of Standards and Technology (NIST).

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Calibration Technician

Date: 4-Oct-2017

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