



LASER SAFETY CERTIFICATE



The laser system described hereunder has been classified regarding laser safety according to the stated norms and has been evaluated as described. Measurement techniques and test results are documented in the stated laser safety report.

Laser Safety Report		# 1708011438 GUT		
Manufacturer / Distributor		wenglor MEL GmbH		
Street		Breslauer Straße 2		
Post Code / Town		Germany - 85386 Eching		
Product / System				
Designation		2D- / 3D-Profile sensor with UV-laser light (OPT 3013)		
Test unit S/N		Prototype (1)		
Intended use		Measuring system for surface geometry		
Laser source(s)				
Lasertype / Wavelength		Laser diode	λ	RED 645 - 665 nm UV 375 ±5 nm
Op. mode / Power		cw // pulsed	P_{max}	35 mW 250 mW
Norms / Regulations				
IEC EN		60 825-1:2014		
FDA ANSI		21 CFR 1040 // Laser Notice No. 50		
EU Radiation Safety Optic		EU directive 2006/25/EC // OStrV 2010-07 // TROS Laser		
Classification				
Operating mode / Condition Applies to		Normal operation Operator	Set-up / Maintenance	Service / Repair Manufacturer
Fulfils the conditions of laser class		UV 1	1	3B
		RED 2	2	
Eye safety confirmed		YES	YES	Only with PSE
Laser safety officer		NO	NO	YES
Laser safety goggles		NO	NO	YES
Skin safety		According to TROS Laser the skin may not be exposed to UV radiation in a distance of 100 mm for more than 13 s. For single shift gloves are recommended.		

Our expert's report confirms that the terms of the stated laser classes comply with the specified audit classes as described above.

The optical radiation safety was considered for the operator while operating the laser system in the intended operating modes as described above, in accordance with the instructions of the system manufacturer, referred to the original delivery status. The expert made a risk analysis regarding laser protection only; electrical and / or mechanical hazards were not part of this review.

Darmstadt, January 14, 2019


Prof. Klaus R. Goebel
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