



# 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)

			RED	UV
Lasertype / Wavelength	Laser diode	$\lambda$	645 - 665 nm	375 $\pm$ 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
Fulfills the conditions of laser class	UV 1 RED 2	1 2	3B
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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