

EU type-examination certificate

C4059.1OS

Applicant / manufacturer	optrel tec ag Industriestrasse 2 9630 Wattwil SWITZERLAND
Identification of the manufacturer	OS
Product type	Laser welding helmet, eye-, face and head protector for laser welding and related techniques
Model name	PANORAMAXX HYBRID
Standard(s) / technical rules	Essential requirements according to Annex II of the PPE-Regulation (EU) 2016/425 EN ISO 16321-2:2021, EN 207:2017
Test report(s)	1108-ECS-24; MR11081-ECS-24 & 11084-ECS-24
Material(s)	Polycarbonate, Polyamide, glass-glass lamination, Plastic with metal components
Marking	<u>Eye- protection:</u> 16321 OS W3/4-8/5<12 V2 1000-1100 D LB7 IR LB8 OS CE <u>Face- and head- protection:</u> 16321 OS W15 E 1-M 1000-1100 D LB4 IR LB8 OS B CE See schedule for further details of the components

Herewith, ECS certifies that the named model complies with the essential requirements for health and safety as they are provided by the European Regulation (EU) 2016/425 for Personal Protective Equipment. This certificate is based both / either on the test results as they are summarized in the named test reports, and/or on the technical documentation as it is delivered by the manufacturer. The applicant / manufacturer agrees to the General Business Rules of the ECS GmbH and to additional agreements as they are named in the application for conformity assessment.

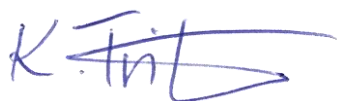
The eye-protection device is to be marked as assigned. Either / both the frame and/or the ocular, spectacle, goggle or shield must be signed, as appropriate. If different markings have been assessed, the lowest marking must be applied, respectively. The validity of this EU type-examination certificate will expire on the date as mentioned below, and/or if the manufacturer modifies the safety-relevant properties of this product with comparison to the tested one and/or if the requirements in the standards or technical rules will be revised and/or tightened.

Name, address and identification number 1883 of the notified body ECS are to be indicated in the information brochure of this product.

This EU type-examination certificate is valid until 2029-09.

ECS GmbH
Notified Body 1883
02/10/24





Kerstin Trimus
ECS-Certification

ECS GmbH – European Certification Service
Augenschutz und Persönliche Schutzausrüstung
Laserschutz und Optische Messtechnik
Obere Bahnstraße 74
73431 Aalen, Germany

The laser helmet PANORAMAXX HYBRID consists of the following components:

Component	Protection group	Measurement report	Marking
Laser filter PANORAMAXX HYBRID	Eye- protection	11081-ECS-24	16321 OS W3/4-8/5<12 V2 1000-1100 D LB7 IR LB8 OS 1000-1100 OD7 C5 PS3 ISO 19818-1 OS CE
Internal filter frame (plastic with metal filling)	Eye- protection	11084-ECS-24	1000-1100 D LB7 IR LB8 OS 1000-1100 OD7 C5 PS3 ISO 19818-1 OS CE
Welding shell (Polyamide)	Face- and head- protection	11084-ECS-24	16321 OS W15 E 1-M 1000-1100 D LB4 IR LB8 OS B 1000-1100 OD5 C2 PS3 ISO 19818-1 OS E CE
Cover plate (Polycarbonate)	Safety plate	14221-ECS-19	OS B CE