

Technical data

Article N°	1010.302		
Product description	panoramaxx hybrid clt - black: Laser- / welding helmet with Crystal Lens Technology and color realistic panoramic view, variable shade level with ShadeTronic® 2.5/4-12 (manual 3-8, recommended for laser welding), opening delay with FadeTronic, grinding mode, sensitivity adjustment, optrel re-charge, optrel IsoFit® headgear.		
Headgear	optrel IsoFit® headgear with Position Locker		
ADF size	90 x 110 x 9.5 mm / 3,54 x 4,33 x 0,37" 50 x 100 mm / 1,96 x 3,94" (Sichtfeld)		
Power supply	280mAh Li-Polymer battery rechargeable via micro USB connector and solar cell		
Battery lifetime	300 to 500 charging cycles		
Sensors	Five sensors		
Sensitivity regulation	Continuously variable sensitivity adjustment with "super high" sensitivity range. Passes the "low amp Tig" procedure in accordance with ISO 16321 "TIG +".		
Light transmission	Ultraviolet/infrared protection	maximum in the entire protection level range	
	Visible range activated	Protection level 4 – 12 (ShadeTronic®), 3-8 (manual)	
	Visible range not activated	Protection level 2.5	
Switching times	Light to dark	90 µs (0,090 ms)	at room temperature
		70 µs (0,070 ms)	at 55°C / 131°F
	Dark to light	0,1 s up to 2,0 s	(with FadeTronic)
Welding classification:			
EN ISO 16321-2	16321 OS WL2.5/3-8 /4-12 V2 E TIG+		
	Viewing angle dependency	=	V2
EN ISO 16321-1 (EN166)	Front cover lens	=	E (B)
EN ISO 16321-1 (EN166)	Inside cover lens	=	E (B)
EN175	Helmet shell	=	B
ANSI Z87.1	Z87+		
Classification Laser for Eye protection:			
EN 207	1000–1100 nm D LB7 + I LB8 OS CE (OD7)		
ISO 19818-1	1000–1100nm OD7 C5 P5 ISO 19818-1 CE		
Shape stability	Welding mask up to 220°C / 428°F Front cover lens up to 137°C / 278°F		
ADF protection	Front cover lens and inside cover lens		
Mask material	PA6.6		
Color mask / design	black		
Operating temperature	-10°C up to +55°C / +14°F up to +131°F		
Storage temperature	-20°C up to +70°C / -4°F up to +158°F		
Weight	605 g / 21.3 oz		
Areas of application	All electrical welding processes Electrode welding (Stick Welding, SMAW) / MIG / MAG (Gas Metal Arc Welding, GMAW) / GMAW high-performance welding / flux-cored wire welding / TIG welding (TIG, GTAW) / plasma welding / microplasma welding / plasma cutting Gas welding, grinding work in grinding mode Suitable for laser welding! Laser range 1000 - 1100 nm		
Scope of delivery	Welding helmet, operating instructions, storage bag, micro USB charging cable, warranty card		



Preliminary version

panoramaxx hybrid clt



Standards

CE, ANSI, EAC, AS/NZS, complies to CSA Z94.3

Warranty

2 years from the date of purchase for manufacturing and material defects (excluding battery). 1 additional year if the product is registered within the first 6 months (from date of purchase) at optrel.com/register.

Preliminary version