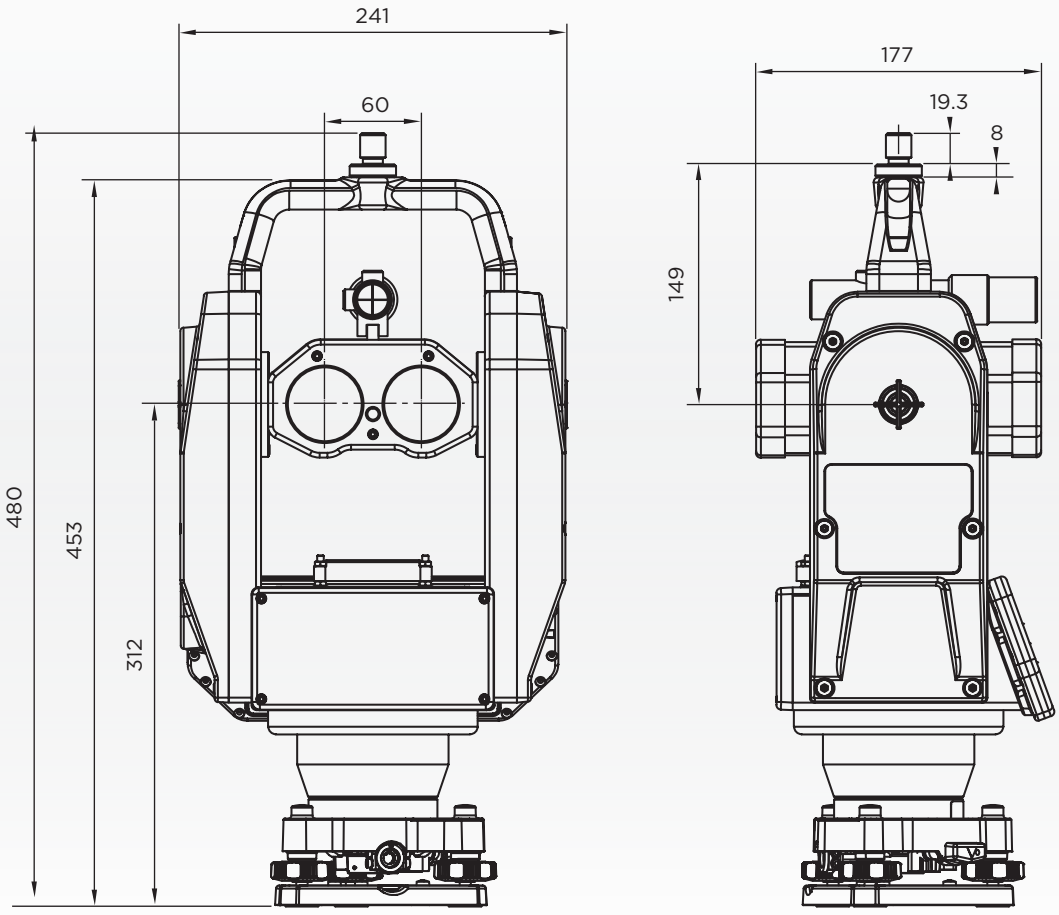
Quarryman® Pro

		Quarryman Pro	Quarryman Pro LR (long range)
Operating temperature range**		-20 °C to +45 °C	-20 °C to +45 °C
Weight	Including tribrach	8 Kg	8 Kg
	Including tribrach and battery pack	8.6 kg	8.6 kg
	Including transit case and accessories	16.5 kg	16.5 kg

* Viewing the laser output with certain optical instruments designed for use at a distance (for example, telescopes and binoculars) may pose an eye hazard.
** Visible and invisible laser radiation. Avoid direct eye exposure.
*** Max measuring ranges are recorded against Kodak white card (90% reflectivity).
**** Visible laser module operational -10°C to +60 °C

For further information and the best possible application and performance support please contact Carlson at lasermeasurement@carlsonsw.com

QUARRYMAN PRO AND QUARRYMAN PRO LR DIMENSIONS



Dimensions given in mm

VISIBLE AND INVISIBLE LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCTT

LASER RADIATION AVOID DIRECT EYE EXPOSURE CLASS 3R LASER PRODUCT

Carlson BREAK NEW GROUND

Carlson Quarryman Pro - Specifications

		Quarryman Pro	Quarryman Pro LR (long range)
Laser module			
Laser classification (BS EN 60825-1: 2014) (21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser No. 50, dated 24 June 2007)		Class 2*	Class 3R**
Infrared laser module			
Type		InGaAs laser diode	InGaAs laser diode
Wavelength (typical)		905 nm	905 nm
Maximum energy per pulse		2.88 µJ	4.81 µJ
Beam divergence		2.25 × 0.15 mrads	2.25 × 0.15 mrads
Resolution		1 cm	1 cm
Maximum range to a passive target ***		Up to 750 m	Up to 1200 m
Minimum range		10 m	10 m
Lens aperture size and location		46 mm (location at front of module)	46 mm (location at front of module)
Visible laser module			
Type		InGaAsP laser diode	InGaAsP laser diode
Wavelength (typical)		650 nm	650 nm
Maximum power		<0.6 mW (continuous wave)	<0.6 mW (continuous wave)
Lens aperture size and location		3 mm (location at front of module)	3 mm (location at front of module)
Angle measurement			
Encoder type		Opto-electronic encoder	Opto-electronic encoder
Encoder accuracy		0.02 ˚	0.02 ˚
Encoder resolution		0.01 ˚	0.01 ˚
Range	**Vertical**	-45˚to +90 ˚	-45˚to +90 ˚
	Horizontal	0˚ to 360 ˚	0˚ to 360 ˚
Motion		Stepper-driven worm and wheel drives in both axes with manual clutch override	Stepper-driven worm and wheel drives in both axes with manual clutch override
Keyboard and display			
Display		3.5-in, sun-readable TFT	3.5-in, sun-readable TFT
Resolution		320 × 240	320 × 240
Keyboard		17-button keypad	17-button keypad
Data logging			
Supplied logging media		8GB USB drive	8GB USB drive
Compatibility		USB 2.0 and 3.0	USB 2.0 and 3.0
Power			
Supplied battery		14.4 V Lithium-ion	14.4 V Lithium-ion
Capacity		6.2 Ah	6.2 Ah
Scan time (typical)		210 min	210 min
Alternative power		12 V dc lead acid	12 V dc lead acid
Physical data			
Construction		Machined aluminium	Machined aluminium
Water and dust resistant		IP66	IP66
Operating temperature range**		-20 ˚C to +45 ˚C	-20 ˚C to +45 ˚C
Weight	**Including tribrach**	8 kg	8 kg
	Including tribatch and battery pack	8.6 kg	8.6 kg
	Including transit case and accessories	16.5 kg	16.5 kg

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