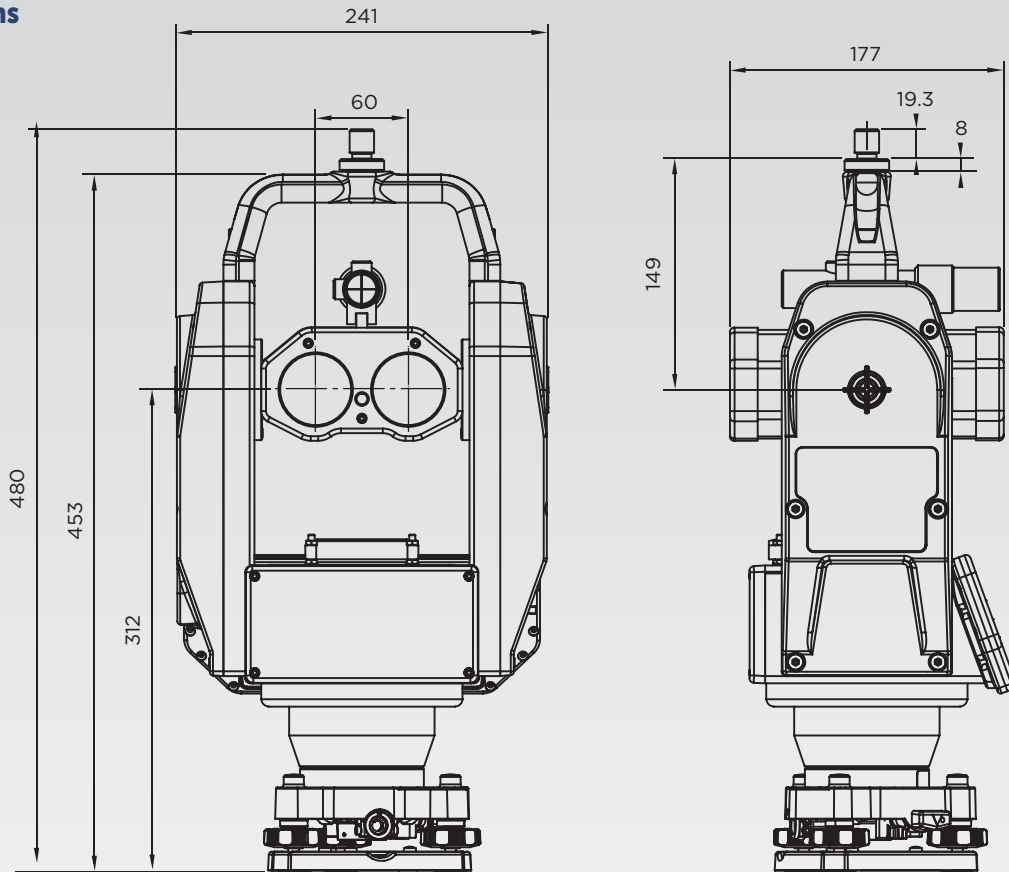# Quarryman® Pro

Dimensions

Dimensions given in mm

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

VISIBLE AND INVISIBLE
LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT

BREAK NEW GROUND

	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	
Wavelength (typical)	905 nm	
Maximum energy per pulse	2.88 µJ	4.81 µJ
Beam divergence	2.25 x 0.15 mrads	
Resolution	1 cm	
Maximum range to a passive target **	Up to 750 m	Up to 1200 m
Minimum range	10 m	20 m
Lens aperture size and location	46 mm (location at front of module)	
Visible laser module		
Type	InGaAsP laser diode	
Wavelength (typical)	650 nm	
Maximum power	<0.6 mW (continuous wave)	
Lens aperture size and location	3 mm (location at front of module)	
Angle measurement		
Encoder type	Opto-electronic encoder	
Encoder accuracy	0.02°	
Encoder resolution	0.01°	
Range Vertical	-45° to +90°	
Horizontal	0° to 360°	
Motion	Stepper-driven worm and wheel drives in both axes with manual clutch override	
Keyboard and display		
Display	3.5-in, sun-readable TFT	
Resolution	320 x 240	
Keyboard	17-button keypad	
Data logging		
Supplied logging media	8GB USB drive	
Compatibility	USB 2.0 and 3.0	
Power		
Supplied battery	14.4 V Lithium-ion	
Capacity	6.2 Ah	
Scan time (typical)	210 min	
Alternative power	12 V dc lead acid	
Physical data		
Construction	Machined aluminium	
Water and dust resistant	IP66	
Operating temperature range***	-20 °C to +45 °C	
Weight Including tribrach	8 Kg	
Including tribatch and battery pack	8.6 Kg	
Including transit case and accessories	16.5 Kg	

*   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