



Moonbow Compact Series

Compact Green, NIR and Eyesafe Laser



Q-Peak's Moonbow laser series find their application in the military for range finding and non-lethal dazzler, in scientific for materials characterization by LIBS, Raman, fluorescence, in industry for process control through monitoring of exhaust streams, in mining for profiling of metals composition and determinations of minerals and in environment for detection of contamination.

- **Customer Focused**
- **Experienced Staff**
- **Laser Driven Innovation**



Moonbow Series

Compact Green, NIR Laser

Applications in Range Finding, Non-lethal Dazzler, Characterization by LIBS, Raman, Fluorescence; Monitoring of Exhaust Streams, Profiling of Metal Composition, Determination of Minerals, Contamination Detection...



Compact



CB-IR



CB-G

Key Features

- Multiple packaging options
- Compact and lightweight
- Ruggedized

Performance

Optical Specifications: Laser Head	Compact	CB-IR	CB-G
Laser Type	Nd:YLF, Converter	Nd:YLF	Doubled Nd:YLF
Wavelength	523, 1047, 15XX nm	1047 nm	523, 1047 nm
Polarization	Linear	Linear	Linear
Polarization purity	> 100:1	> 100:1	> 100:1
Pulse energy	1 mJ at 523 & 15XX nm >2 mJ at 1047 nm	2 mJ	1 mJ each wavelength
Pulse width	10 ns	2 ns	10 ns
Repetition rate	< 1 -30 Hz	< 1 -30 Hz	< 1 -30 Hz
Horizontal beam diameter	1 mm	1 mm	1 mm
Vertical beam diameter	1 mm	1 mm	1 mm
Horizontal beam divergence	< 4 mrad	< 3 mrad	< 4 mrad
Vertical beam divergence	< 4 mrad	< 3 mrad	< 4 mrad
Beam quality (M ²)	< 2	< 2	< 2
Ambient operation temperature range	15 ± 35 °C	15 ± 35 °C	15 ± 35 °C
Warm up time	1 min	1 min	1 min
Physical Specifications: Laser Head			
Dimensions (length x width x height)	3.2 cm x 1.8 cm x 1.3 cm	1.5 cm dia. x 1.4 cm long	1.5 cm dia. x 2.5 cm long
Weight	79 g	22 g	38 g
Physical Specifications: Power Supply			
Dimensions (length x width x height)	11.2 cm x 6.5 cm x 4 cm		
Weight	309 g		



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