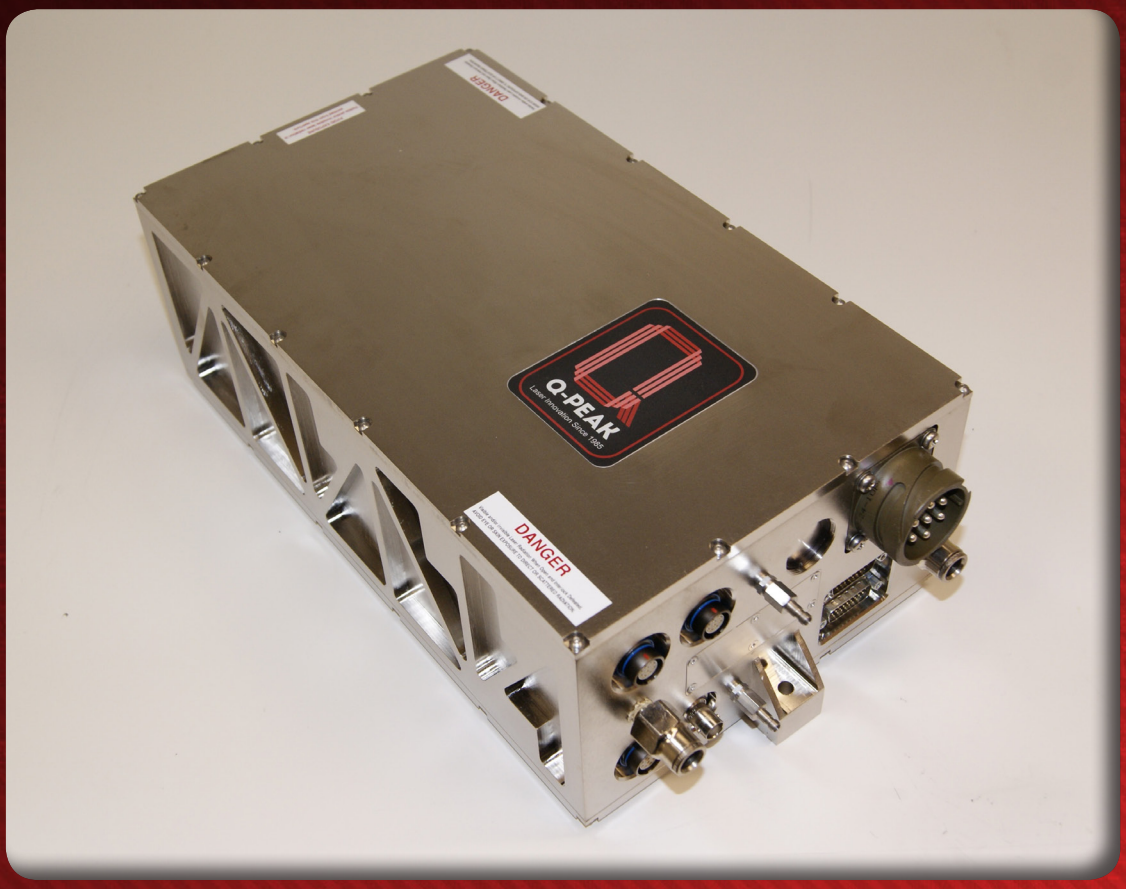
Aurora 2520

LADAR Laser



Q-Peak's Aurora 2520 laser provides a hardened laser architecture for high-power, high repetition-rate pulsed applications such as LADAR and mapping. Efficiently designed to minimize size, weight, and power consumption; Aurora utilizes a diode-pumped, solid-state laser architecture to conserve system resources while delivering high-energy, reliable illumination pulse streams.

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

Q-PEAK

Aurora 2520
LADAR Laser

Applications in Aerospace and Defense,
LADAR / LIDAR, Geospatial Mapping.

Key Features

- High power high PRF
- PRF variability from 0-50 kHz
- Sub-ns pulsewidth
- Ruggedized, flight ready architecture
- Water cooling interface
- Conserving system resources

Optical Specifications:	**Performance**
Laser Type	Nd:YVO_4 MOPA
Wavelength	1064 nm
Polarization	Linear
Polarization Purity	> 100:1
Pulse Energy	> 1.3 mJ
Pulse Width	< 1 ns
Repetition Rate	20 kHz
Beam Diameter	< 3 mm ($1/e^2$)
Beam Divergence	< 350 µrad (half-angle)
Beam Quality (M^2)	< 1.5
Ambient Operating Temperature Range	+15 to +30 °C
Warm-Up Time	< 1 min.
Physical Specifications, Laser head	
Dimensions (length x width x height)	34.0 cm x 18.7 cm x 12.4 cm
Weight	10.9 kg
Physical Specifications, Electronics	
Dimensions	4U Rack Mount
Weight	16 kg

Q-PEAK
Laser Innovation Since 1985

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