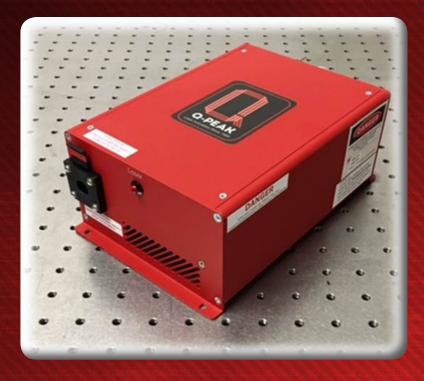




## **Short Pulse Oscillator**



Q-Peak's Short Pulse Oscillator provides an advanced front-end laser architecture for variable repetition-rate, sub-ns pulsewidth, actively Q-switched applications including high-accuracy remote sensing. Complete turnkey unit offers a unique, integrated testbed for OEM systems applications.

Q-PEAK

Customer Focused

- Experienced Staff
  - Laser Driven Innovation



Short Pulse Oscillator

Applications in High-accuracy Remote Sensing and Ranging, Unique Advantages to OEM System Suppliers.



## **Key Features**

- Narrow spectral bandwidth
- Sub-ns pulsewidth
- Up to 50 kHz PRR
- Actively Q-switched
- Integrated turnkey platform
- Internal power conditioning
- Internal/external timing and trigger signals

Laser Head	
Optical Specifications:	Performance
Laser Type	Nd:YVO <sub>4</sub>
Wavelength	1064 nm
Polarization	Linear, horizontal
Polarization purity	> 100:1
Pulse energy	15-30 µJ
Pulse width	600-800 ps
Repetition rate	10-30 kHz (0-50 kHz capability)
Temporal jitter	<300 ps
Beam diameter	< 2 mm (1/e <sup>2</sup> )
Beam divergence	< 470 µrad (half-angle)
Beam quality (M <sup>2</sup> )	< 1.4
Ambient operation temperature range	0 to + 40 °C
Warm up time	< 1 min
Physical Specifications, Laser Head	
Dimensions (length x width x height)	20.8 cm x 9.4 cm x 15.2 cm
Weight	3.7 kg



Power

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