

1-Micron Illuminator Laser Sparkle Optics Corporation

- 1030 nm Laser Wavelength
- High Pulse Energy and Peak Power
- TEM₀₀ and Polarized
- Scalable to 1 kW average power

Standard Specifications			
	Unit	1030-Q-100	1030-Q-200
Wavelength	nm	1030	1030
Average Power (max)	W	100	200
Pulse Energy (max)	mJ	14	14
Peak Power (max)	kW	>500	>500
Beam quality		TEM ₀₀ , M ² < 1.2	TEM ₀₀ , M ² < 1.2
Pulse repetition rate	kHz	5-100 kHz	5-100 kHz
Pulsewidth	ns	< 30 ns at <10 kHz	< 30 ns at <10 kHz
Polarization		Horizontally polarized, >150:1	Horizontally polarized, >150:1
Beam diameter (2w)	mm	1 (typical), configurable	1 (typical), configurable
Laser Head	inch	18 w x 17 d x 7 h	18 w x 17 d x 7 h
Laser Power Supply	inch	17 w x 32 d x 16 h (enclosure)	17 w x 32 d x 16 h (enclosure)
Electrical Input		220 VAC, single-phase, 50-60 Hz	220 VAC, single-phase, 50-60 Hz
Water	liter / min	4	4
Helium gas (balloon grade)	liter / min	0.3	0.3
Laser can be custom built to customer requirements			

Applications:

- Beacon Illuminator
- Nonlinear optics pump for Track Illuminator
- Laser Illumination
- Lidar
- Deep Space Communication