

LS-2137U Pulsed Nd:YAG Laser



LOTIS TII LS-2137U is an improved, short pulse modification of our power laser LS-2137 with VRM, which keeps such advantages of this model as rugged design, high stability and friendly used operation.

VRM resonator gives excellent harmonics conversion due to increased spatial uniformity of output beam, low divergence and short pulse duration.

LS-2137U the ideal tool for research (LIDAR, spectroscopy including LIF, LIBS) and OEM applications.

Specification

Parameter	Value	
Energy, mJ	1064 nm	700
	532 nm	400
	355 nm	160 / 135*
	266 nm	120
Pulse duration, ns	1064 nm / 532 / 355 / 266 nm	6-7 / 6-7 / 5-6 / 5-6
Pulse repetition rate, Hz		1-10
Beam divergence, mrad		≤0.8
Beam diameter, mm		≤8.0
Jitter**, ns		±1.0
Pointing stability, mrad		0.1
Energy stability*** (1064 nm), %		±3.0
Size L x W x H, mm (Weight, kg)	Laser head	875 x 206 x 136 (25.0)
	Power supply	363 x 364 x 192 (15.0)
	Cooling system	363 x 364 x 280 (12.0)
	Remote control	105 x 175 (0.5)
Power requirements		Single phase, 220±20 V, 50-60 Hz, 750 W

* for OPO pumping (with protective mirror, cutting back reflection)

** with respect to external trigger of Q-switch

*** shot to shot for 99% of pulses

