

Q-SWITCHED AUTOMATED Nd:YAG LASER WITH UV OUTPUT LS-2145T, LS-2145F



The LS-2145T and LS-2145F are our latest designs featuring the high reliability and simplicity found in our compact laser series LS-2130-2145, and with improved output parameters as well as built-in UV converters.

The two variations of this laser are model LS-2145T, lasing at 1064, 532, 355 nm and model LS-2145F, lasing at 1064, 532, 266 nm.

These advanced lasers feature remote switching of the laser output frequencies without manual intervention in the laser head. The changeover of output channels (fundamental frequency to second harmonic and third or fourth harmonics) is motorized and is provided by remote control (PC control). A color coded LED indicator shows at a glance the laser output setting in use.

SPECIFICATIONS

Model		LS-2145T	LS-2145F
Energy, mJ	1064 nm	350	350
	532 nm	230	230
	355 nm	85/75*	-
	266 nm	-	70
Pulse duration (FWHM), ns		13-15	
Pulse repetition rate, Hz		10	
Beam divergence, mrad full angle for 86% of energy		1.0	
Beam diameter, mm		6.3	
Jitter **, ns		±1.0	±1.0
Energy stability ***, %	1064 nm	±2.5	±2.5
	532 nm	±3.0	±3.0
	355 nm	±3.0	-
	266 nm	-	±3.0
Size LxWxH, mm (Weight, kg)			
Laser Head		815x206x136 (30.0)	
Power Supply		363x364x192 (15.5)	
Cooling System		363x364x280 (15.5)	
Remote Control		105x175 (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