

SPECTRA-PHYSICS 337-i AIR-COOLED NITROGEN LASER SYSTEM

Optical Characteristics	
Wavelength	337.1 nm
Spectral Bandwidth	0.1 nm
Repetition Rate	1 to 20 Hz, user-supplied trigger
Pulse Width, FWHM	4 ns
Pulse Energy	150 µJ
Pulse to Pulse Energy Stability	3% std. dev. at 10 Hz
Peak Power	36 kW
Average Power	3 mW at 20 Hz
Beam Size	3 x 7 mm
Beam Divergence, Full Angle	3 x 8 mrad

Electrical Characteristics	
External Trigger	TTL, Optoisolated
Trigger In to Optical Pulse Out	< 700 ns; < 20 ns std. dev. jitter
Power Consumption	24 W at 20 Hz

Services and Equipment	
Air Flow Requirements	
	None
Electric Service Requirements	
Voltage	+24 Vdc
Current	3 A peak 1 A average at 20 Hz
Environmental	
Temperature Range	4 – 40°C (40 – 105°F)
Humidity (noncondensing)	0 – 95%
Altitude	0 – 3000 m (0 – 9800 ft)

Ordering Information	
337-i Standard	P/N 337999-01

Features and Benefits:

- Modular design
- No alignment required
- Quiet
- Variable pulse rate
- Patented sealed plasma cartridge
- Field-replaceable plasma cartridge
- Power on demand
- Externally triggered
- Low EMI

Applications:

- MALDI-TOF mass spectrometry
- Laser-induced fluorescence
- Cell ablation
- Medical diagnostics
- Materials research



1150 E. Main St | Santa Paula, CA 93060
 PH 805.933.0015 | FAX 805.933.0042
 LaserInnovations.com | 337nm.com

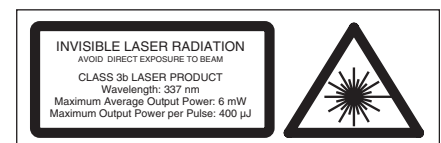


Spectra-Physics
 1335 Terra Bella Avenue
 Mountain View, CA 94043
 Tel: 1-800-775-5273
 Tel: 1-(650) 961-2550
 Fax: 1-(650) 964-3584
 e-mail: sales@splasers.com
 http://www.splasers.com

Australia: (61) 8-8443-8668
Belgium: (31) 40 265 99 59
China: (86) 10 6256 2934
France: (33) 1 6918 63 11
Germany: (49) 6151-708300
Hong Kong: (852) 2523-5688
India: (91) 80 6763 465

Israel: (972) 3-6356650
Italy: (39) 02-57465-1
Japan: Tokyo (81) 3-3794-5511
Osaka (81) 6-6941-7331
Netherlands: (31) 40 265 99 59
S. Korea: (82) 2-587-8727
Spain: (34) 91-3775006

Scandinavia: (46) 8-550 10403
Taiwan: (886) 3-426-2376
UK: (44) 1442-258100
Other European Countries:
 (49) 6151-7080
Other Pacific Countries:
 1-650-961-2550

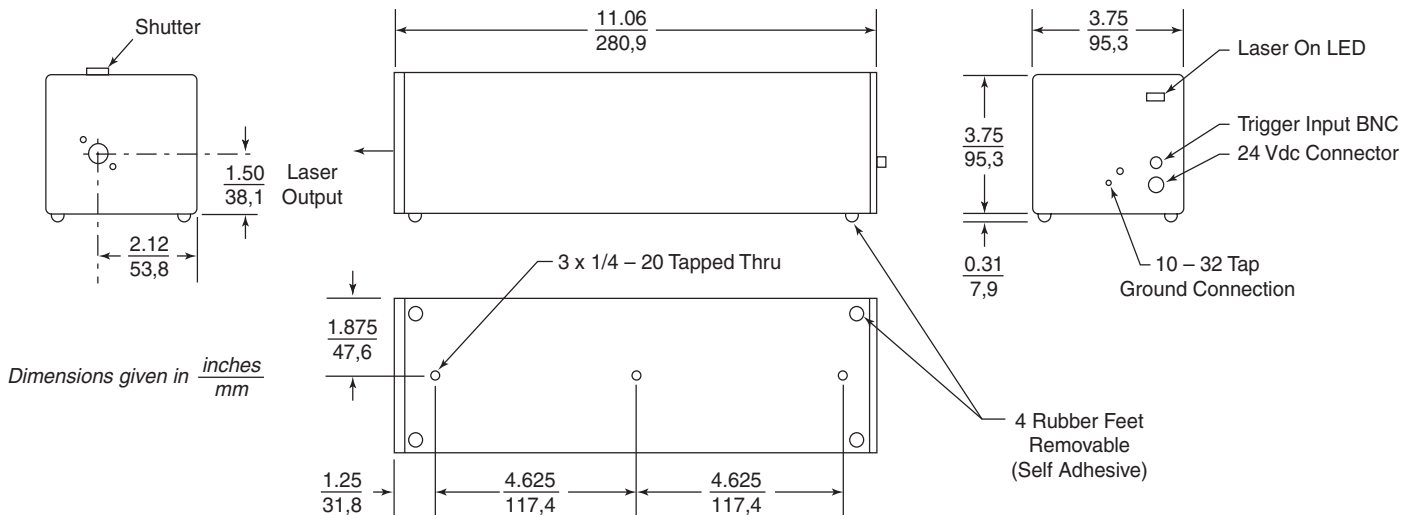


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The 337-i nitrogen laser emits 4 ns pulses in the UV at 337 nm. The pulse repetition rate may be varied from 1 to 20 Hz with a pulse energy of up to 150 μ J. The laser is externally triggered by a TTL-level pulse for synchronization with other timed events. Constant pulse shape and good pulse-to-pulse stability were designed into the 337-i with our fixed-electrode and discharge-stabilizing pre-ionizers.

The 337-i features our user-replaceable plasma cartridge, allowing the customer to regain the performance of a new laser at a fraction of the cost. Our patented design ensures minimal downtime because no adjustments are necessary for the resumption of full-spec performance. The plasma cartridge typically maintains at least 70% of its energy for 20 million pulses.

The 337-i was developed specifically for OEM applications requiring low radiated emissions (EMI) and low power consumption for compatible operation with other sensitive electronic equipment. The compact size and profile affords easy system integration.



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337-i Laser
Size (L x W x H)
11.0 x 3.75 x 3.75 in. (279,4 x 95,3 x 95,3 mm)
Weight
7 lb (3,2 kg)

