

## Symphotic TII Corporation

### Laser Products Catalog, 2007



"Take a Closer Look"

www.NdYAG.com

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Specifications are as of October, 2006 and subject to change without notice. 80040DC

880 Calle Plano, Unit K, Camarillo, CA 93012 U.S.A. Tel: 805-484-6639 www.ndyag.com 80040DC Laser Catalog r2007.02 . © 2003 to 2006 Symphotic TII Corporation. All rights reserved. See copyright statement on page 2





# Q-switched Nd:YAG Lasers: LS-2130, LS-2131, LS-2132, LS-2134, LS-2135

The LOTIS TII pulsed Nd: YAG lasers LS-2130–LS-2135 are designed to provide years of trouble free operation in even the most demanding environments.

Our unique folded resonator allows these lasers to feature compact size and highly stable output characteristics. The ruggedly mounted optics are virtually immune to the thermal and physical shocks. Although these lasers are compact in size, all components and service parts are easily accessible. The diffuse close-coupled pumping chamber provides for efficient and uniform pumping of laser rod.

As with all our lasers, these compact lasers have been designed for quick and easy interchange of the flashlamp without readjustment of the laser resonator. The flashlamp operates in idle mode to provide stability and long life. The cooling system consists of hermetic water pump, flow, temperature and level sensors and water-to-air heat exchanger. A commercial off the shelf water purification filter is used for long-term operation.

Key Features:

- □ Repetition rate: 1 to 20 Hz, Small divergence
- □ Compact size
- Menu-driven remote control
- □ RS-232C Interface
- Rugged and reliability



#### Specifications (as of August, 2006 and subject to change)

| Parameter                             | LS-2130  | LS-2131        | LS-2132                                | LS-2134  | LS-2135                     |
|---------------------------------------|--|----------------|--|----------|-----------------------------|
| Energy                                |  |                |  |          |                             |
| 1064 nm                               | 50 mJ  | 100 mJ         | 180 mJ                                 | 250 mJ   | 340 mJ                      |
| 532 nm                                | 25   | 50             | 100                                    | 150      | 170                         |
| Pulse duration<br>(1064 nm)<br>(FWHM) | 9–11 ns  | 9–11 ns        | 10–12 ns                               | 10–12 ns | 10–12 ns                    |
| Pulse repetition rate                 | 1–20 Hz  | 1–20 Hz        | 1–15 Hz                                | 1–15 Hz  | 1–10 Hz                     |
| Beam divergence                       | 1.0 mrad   | 1.5 mrad       | 2.0 mrad                               | 2.5 mrad | 2.5 mrad                    |
| Beam diameter,<br>mm                  | 3 mm   | 4 mm           | 5 mm                                   | 6.3 mm   | 8 mm                        |
| Jitter                                | $\pm 1.0$ ns(w.r.t external trigger of Q-switch) |                |  |          |                             |
| Energy Stability,                     | $\pm 2.5$ % (shot to shot for 99 % of pulses)    |                |  |          |                             |
| Dimensions                            |  |                | LxWxH, mm (weight, kg)                 |          | LxWxH, in.<br>(weight, lbs) |
|                                       | Laser Head                                       |                | 567 x 152 x 90 (9.5)                   |          | 22.3 x 6 x 35.5<br>(21)     |
|                                       | Power Supply                                     |                | 363 x 364 x 192 (15.5)                 |          | 14.3 x 14.3 x 7.6<br>(34)   |
|                                       |  | Cooling System | 363 x 364 x 192 (12.5)                 |          | 14.3 x 14.3 x 7.6<br>(27.5) |
|                                       |  | Remote Control | 130 x 180 (0.5)                        |          | 5 x 7 (1)                   |
| Power requirements                    |  |                | Single phase 220±20 V, 50–60 Hz, 500 W |          |                             |

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