

TUN-TiA-770-840/1-2500mW

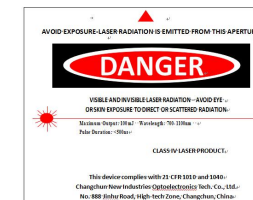
# AIR COOLING LD PUMPED ALL-SOLID-STATE Q-SWITCHED RED LASER at 770-840nm

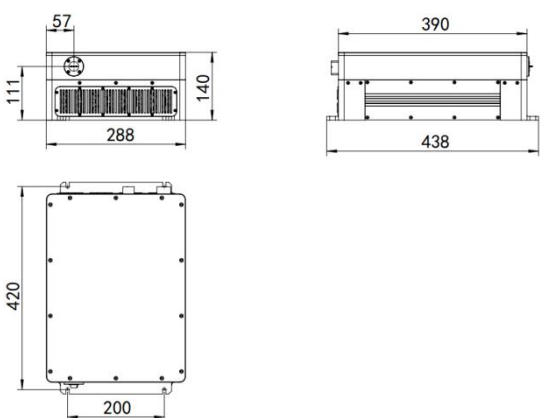
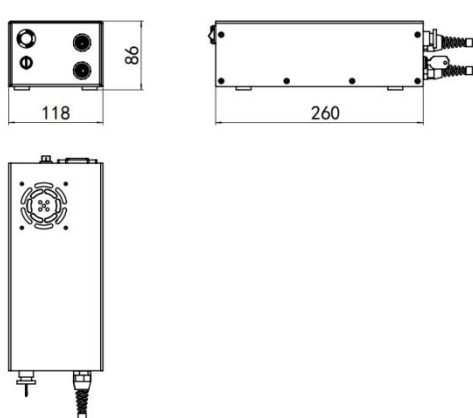
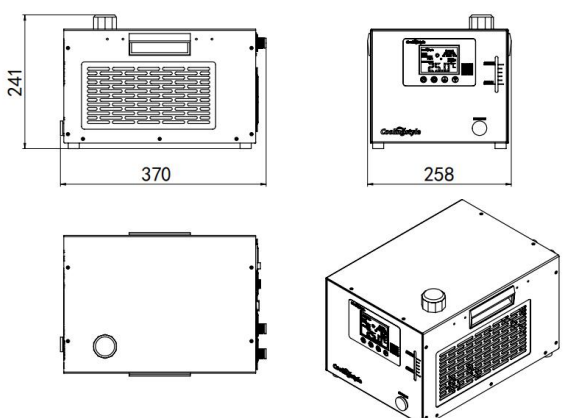
All solid state Q-switched red laser at 770~840nm tunable wavelength , has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in marking, carving, measure, scientific research, military, and so on.



## SPECIFICATIONS

|                                                      |               |                 |
|------------------------------------------------------|---------------|-----------------|
| Wavelength (nm)                                      | 770-840       |                 |
| Operating mode                                       | Actively      |                 |
| Average power (mW) <sup>1</sup>                      | 1-1300@50kHz  | 1300-2500@50kHz |
| Pulse duration (ns)                                  | <40           |                 |
| Rep. rate (kHz) <sup>2</sup>                         | 10-50         |                 |
| Single pulse energy (uJ)                             | 26@50kHz      | 50@50kHz        |
| Peak power (kW)                                      | 1-1.25@ 50kHz |                 |
| Ave power stability (rms, 4 hours±3°C)               | <5%, <3%      |                 |
| Beam divergence, full angle (mrad)                   | <3.5          |                 |
| Beam diameter at the aperture (1/e <sup>2</sup> ,mm) | <2            |                 |
| Beam height from base plate (mm)                     | 111           |                 |
| Warm-up time (minutes)                               | <10           |                 |
| Cooled method                                        | Water Cooled  |                 |
| Operating temperature (°C)                           | 15-35         |                 |
| Power supply (100-240VAC)                            | 12V/25A       |                 |
| Expected lifetime (hours)                            | >10000        |                 |



| LASER HEAD (DRIVER Integrated)                                                                                                           | POWER SUPPLY(100-240VAC)optional                                                                                                           | WATER CHILLER                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <br>420 (L) × 288 (W) × 140(H) mm <sup>3</sup> , 21 kg | <br>260 (L) × 118 (W) × 86 (H) mm <sup>3</sup> , 3.5 kg | <br>370 (L) × 258 (W) × 241 (H) mm <sup>3</sup> , 12kg |

1 One fixed value between 1-1300mW or 1300-2500mW.

2 One fixed value between 10-50kHz.