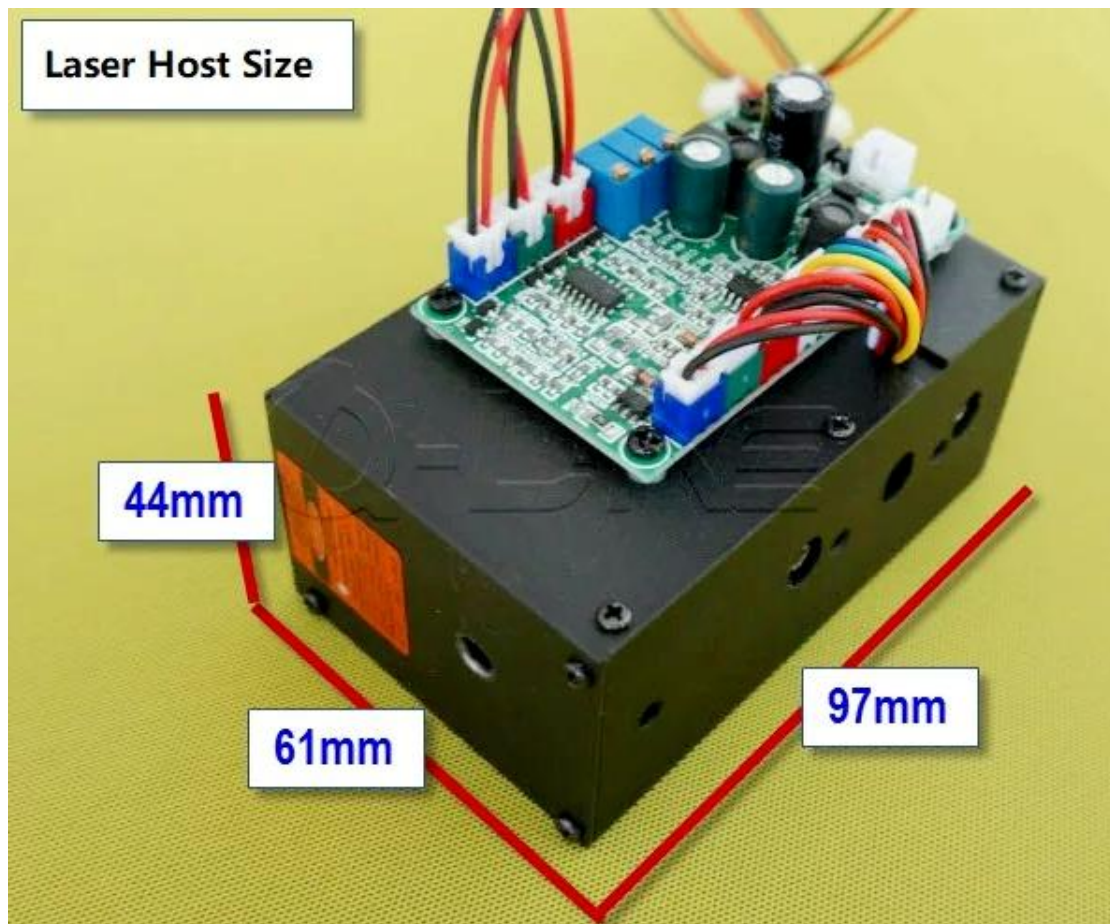


RGB Combined White Mini Full-Color Stage Laser Module (TTL Modulation)



Technical Specification

1. Mechanical Dimensions

Laser Main Housing: 97mm (L) × 61mm (W) × 44mm (H) Driver Circuit Board: 63mm (L) × 42.2mm (W) × 23mm (H)

Optical Performance

Output Wavelengths: 450nm (Blue), 532nm (Green), 658nm (Red)

Nominal Diode Power: Blue 100mW, Green 130mW, Red 220mW

Actual Combined Output Power (after collimating lens): 240–250mW

Total Raw Diode Power: 400–500mW

3. Cooling Structure

Heat dissipation: Integrated aluminum heat sink + forced air cooling

2. Modulation & Working Mode

Modulation Type: TTL signal modulation support

Operation Mode: Continuous long-time operation

3. Housing & Surface Treatment

Enclosure Material: Aluminum alloy

Surface Finish: Matte black treatment

6. Electrical Parameters

Drive Mode: Constant current drive

Protection Function: Reverse polarity protection (automatic polarity identification)

Rated Operating Voltage: DC 12V

Operating Current: < 1.5A

Warm-up Time: Not required

7. Temperature Range

Working Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

8. Structural Composition

Laser diodes + collimating lens assembly + constant-current drive protection circuit + aluminum heat dissipation housing + cooling fan

