

RL-HP-02 Handpieces



RL-HP-02 series handpieces consist of core components including the fiber handle, lens or working tip, trigger switch, and flange connector, enabling efficient transmission of lasers with different intensity distributions. This series supports simultaneous output at multiple wavelengths, and offers low transmission loss along with stable and reliable operation, is widely used in biomedical and other fields. When integrated with RealLight's multi-wavelength diode laser modules, AWM series laser systems, and OEM modules, the RL-HP series achieves optimal performance.

Key Features

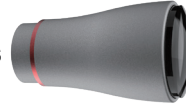
- ◆ Excellent beam uniformity
- ◆ Multi-wavelength simultaneous output
- ◆ Low fiber transmission loss
- ◆ Handpiece with built-in trigger switch
- ◆ Rugged and reliable

Lens or Working Tip

L202A Small Collimating Lens



L203A Large Collimating Lens



L305A Beam Expansion Lens



L306A Large Ball Lens



T102A Bended Tip



T103A Bended Tip



Technical Specifications

Lens or Working Tip	L202A Small Collimating Lens	L203A Large Collimating Lens	L305A Beam Expansion Lens	L306A Large Ball Lens	T102A Bended Tip	T103A Bended Tip
Wavelength Range (nm)	600~1100					
Beam Diameter ¹ (mm)	10	30	24	18	8	4
Handpiece Transmission	>90%	>90%	>90%	>80%	>80%	>80%
Working Mode	Fiber transmission, replaceable lens or working tip					
Fiber Core (μm)	400					
Numerical Aperture of Fiber	0.22					
Fiber Connector	SMA905					
Switch Connector	4-pin aviation connector					
Fiber Length (m)	2±0.1					
Fiber Jacket (mm)	7.5 (Armored)					
Working Temperature (°C)	10~30					
Storage Temperature (°C)	-20~60					
Working/Storage Humidity	10~60% RH					

Notes:

1. The beam diameter refers to the diameter of the lens or the outlet of the working tip, with a tolerance of ±20%.
2. Customization is available for different fiber core diameters, fiber lengths, and handpiece identification functions.
3. All the data in the above table are the typical values obtained from the tests at room temperature of 25°C, and the final data is subject to the final test report.