

# RL-IRP Series

## Immersion Raman Probe



RealLight's self-developed Raman probes, featuring excellent coupling efficiency, wide spectral range and good stability, can be used for laboratory applications, field measurements, etc. Manual safety shutter, different fiber connectors or probes with different working distance are available according to the demands, to effectively complete the measurement of liquids and solids. The RL-IRP series immersion Raman probes are compatible with RealLight's NL series single-mode/multi-mode narrow linewidth diode lasers.

### Key Features

- ◆ High sensitivity
- ◆ Compact design
- ◆ Low loss
- ◆ O.D.>6
- ◆ Multiple wavelengths available

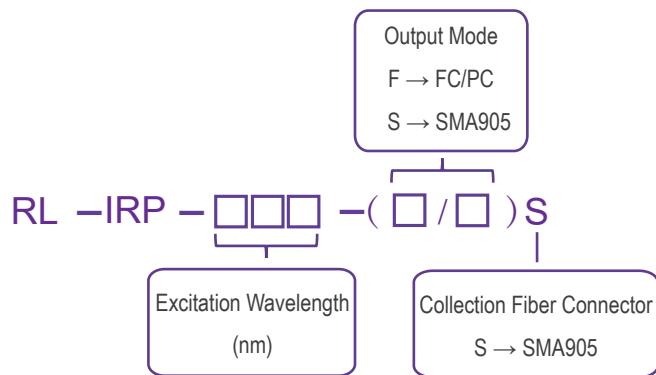
### Standard Wavelength

- ◆ 532nm
- ◆ 785nm
- ◆ 830nm
- ◆ 1064nm

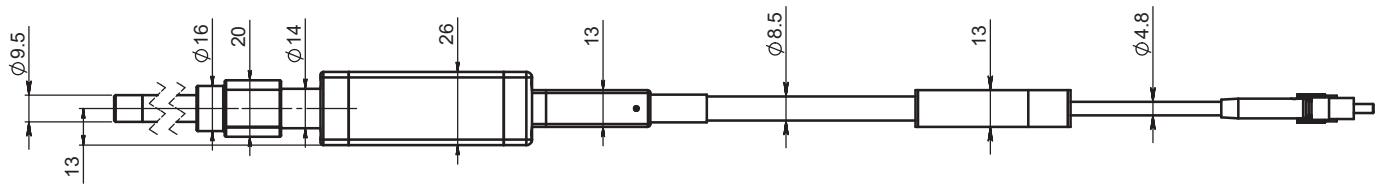
### Technical Specifications

Part No.	RL-IRP-532-(F/S)S	RL-IRP-785-(F/S)S	RL-IRP-830-(F/S)S	RL-IRP-1064-(F/S)S
Center Wavelength (nm)	532	785	830	1064
Spectral Range (cm <sup>-1</sup> )	176~4000	176~3500	176~2800	200~3000
Operating Mode	Fiber pigtailed			
Probe Outer Dimensions (mm)			12	
Probe Tube Length			customizable	
Filter Efficiency			OD6	
Working Distance/Applicable System		0.5~1mm / Liquid		
Excitation Fiber		105μm, NA0.22; SMA905 or FC/PC		
Collection Fiber		200μm, NA0.22; SMA905		
Fiber Length (cm)		(100+30)±0.2		
Operating Temperature (°C)		-20~150		
Maximum Pressure Resistance (MPa)		1		
pH Tolerance Range		1~14		

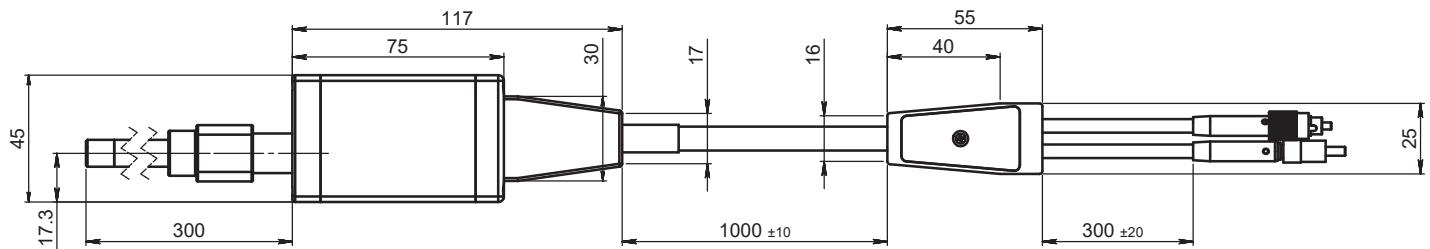
## Part Numbering Schema



## Mechanical Drawings (mm)



### Side View



## Top View