

# Tunable LED Light Source

BIM-6216 Series

The BIM-6216 series is a continuously tunable LED light source are used in scientific research and general lighting application, and are also suitable for fluorescence excitation and narrow band illumination measurement. This series of light sources use SMA905 connection, and directly coupled to the optical fiber, which has a high coupling efficiency to ensure high-efficiency fluorescence excitation. BIM-6216 series light sources have two control modes. The first is Internal mode (INT), you can use the external knob to adjust the light intensity. The second is External mode (EXT), DB9 interface can be used to provide power to the light source and adjust the intensity of the light, which is convenient for integration into the customer system.



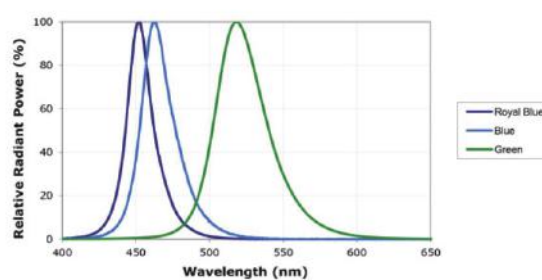
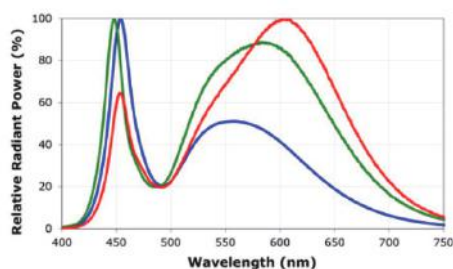
## Features

- High stability for reliable, consistent output
- Extended lifespan for long-term operation
- Efficient thermal management design for optimal performance
- Compact and robust structure for easy system integration

## Applications

- Fluorescence Detection – High-efficiency excitation for sensitive fluorescence spectroscopy and imaging
- High-Resolution Optics – Narrow-band illumination for optical metrology and alignment
- Medical Applications – Stable light output for diagnostic equipment and biomedical research
- Photocatalytic Reactions – Controlled wavelength output for photo-induced chemical processes
- UV Adhesive Curing – Optimized UV spectral output for fast and uniform curing
- Specialty Lighting – Customizable wavelengths for industrial and research

## Typical Spectrum



## What's included

#	Part Description	Model	Qty.
1	Turnable LED light source	BIM-6216-xxx	1
2	Power adapter 12V, 2.5A		1

## Specifications

Model	BIM-6216-455	BIM-6216-525	BIM-6216-620	Other wavelength
Wavelength	455 nm	525 nm	620 nm	Customization supported
Half Width Height	20 nm	40 nm	15 nm	
Max Current	1000 mA	700 mA		
Power	3 W			
Luminous Flux	30 lm	60 lm	30 lm	
Size	86 x 86 x 81.5 mm			

## Dimensions (mm)

