

spectral evolution

ILM-105 Fiber Optic Illumination Module Technical Specifications

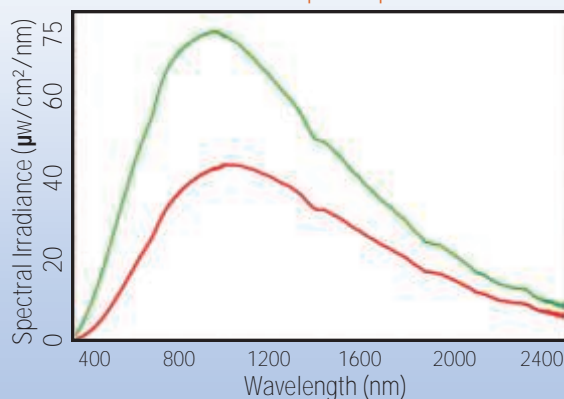
The ideal companion for fast, easy spectrometric illumination!

- SMA-905 Fiber Optic connection for ease of use
- Dual intensity 4.2W/6V tungsten bulb settings for experimental flexibility
- AC/DC or battery pack operation
- User-replaceable tungsten bulb
- Cooling fan to reduce risk of overheating & lengthens bulb lifetime



The ILM-105 is a versatile fiber optic light source designed to couple energy into a fiber optic cable. The bulb supplied is a tungsten type rated for 4.2W at 6 volts. Its low color temperature of ~3100°K enables excellent near infrared response. The ILM-105 also features a lower intensity mode for longer bulb life. The light source can be powered by the supplied AC/DC converter or with an optional Li-Ion Battery Pack. The battery pack is 7.4V and rated for 6000mah, providing 5 hours of operation. You may also custom order your ILM-105 with alternate bulbs if different color temperature ranges are needed—for more information, contact us at info@spectralevolution.com.

ILM-105 Output Spectrum



Spectral irradiance of the ILM-105 light source was measured at the fiber output. The green trace shows output at the high intensity setting. The red trace was taken at the low intensity setting.

Specifications

Light source	4.2W/6V gas filled tungsten bulb
Source lifetime	200h (high intensity setting)
	2000h (low intensity setting)
Source color temperature	3100°K (high intensity setting)
	2800°K (low intensity setting)
Stability	<0.1%/hour
Power	7.5V / 7.5W
Size	4" x 4.5" x 2.27"
Weight	less than 3 pounds
Mounting	Synthetic rubber feet
Operation:	
Temperature	10-40°C
Humidity	10-90% non-condensing
Storage:	
Temperature	0-70°C
Humidity	15-90% non-condensing



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