

BPS120 Tungsten Halogen Light Source



The BPS120 is a low-cost high-performance constant current light source which uses a replacable tungsten halogen bulb rated for 5,000 hours. This device uses a constant current setting which provides precision current control allowing for stable performance to be achieved.

A remote control port is provided on the rear for versatile remote On / Off modulation, operating current monitoring, and external operating current control. Slow ramp start is built into the source to ensure stability and long-life operation. The BPS120 features an SMA 905 connector for fiber coupling. No fiber alignment is necessary and is ideal for visible and near IR spectroscopic applications.

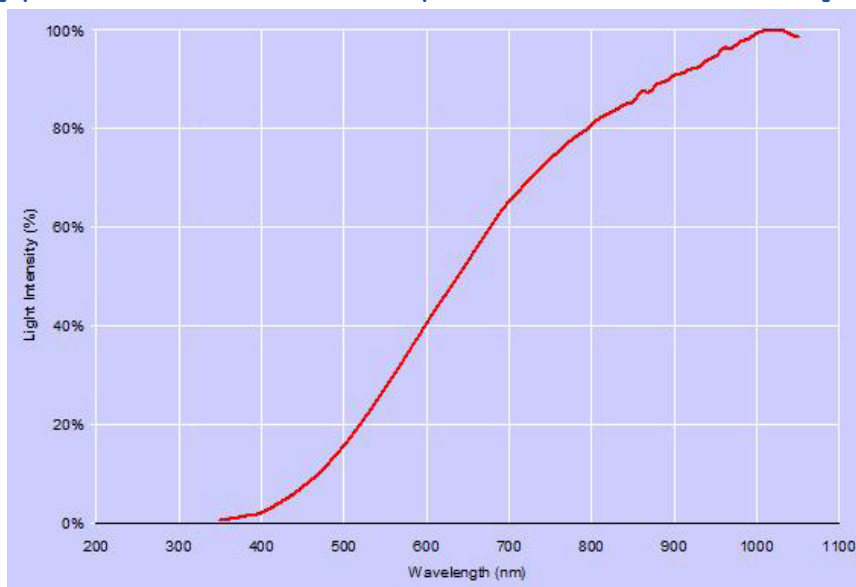
Highlights:

- Spectral Range 350 to > 2600nm
- Compact and Light Weight
- Constant Current
- 5,000 Hour Rating
- 2900 K Color Temperature

Applications:

- Transmission
- Absorption
- Reflectance
- Much more...

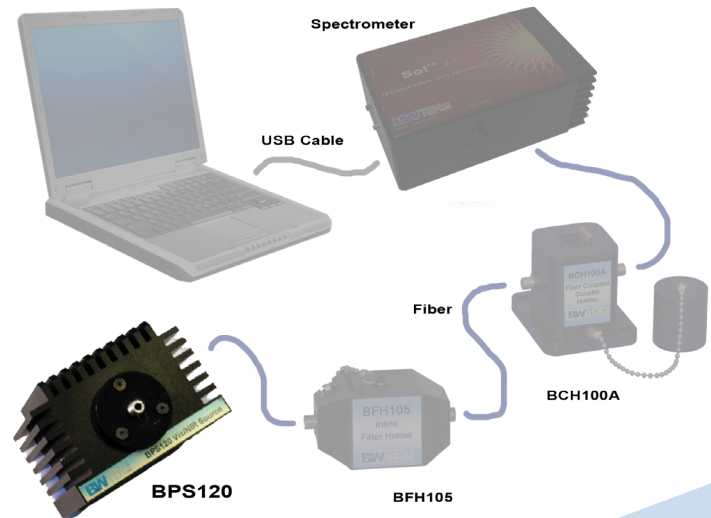
Typical Relative Spectral Intensity:



Specifications:

| | |
|--------------------------|------------------------------------------|
| Light Source | Tungsten Halogen Lamp |
| Spectral Output Range | 350 to > 2600nm |
| Color Temperature | 2900 K |
| Lamp Ratings | 12 V DC @ 2.5 A |
| Rated Life | 5,000 hours |
| Light Coupling | SMA 905 |
| Modulation Port | 4 pin RJ11 connector |
| Control Functions | Modulation, On/Off, Current Monitoring |
| Modulation Input | DC 0 - 1.25 V up to 1 KHz |
| Digital Modulation | TTL up to 100 KHz |
| Current Monitoring | DC Output 0 - 1 V corresponding to 0-1 A |
| Max Dimensions | 3.5in x 3.5in x 2.0in (L x W x H) |
| Weight | 0.5 lbs |
| Relative Humidity | 0 - 85% RH non condensing |
| Operating Temperature | 0° to 40° C |
| AC Adapter Input | 100-240 V AC (50 - 60 Hz) |
| AC Adapter Output | 12 V DC +/- 2.5% @ 2.5 A |
| Output Current Stability | +/- 0.1% |

Transmission / Absorption Experiment Setup



Dimensions (inches):

