

Compact Fiber Output LED Light Source FOLS-01



FOLS-01 is an ultra-compact LED light source with output fiber, LED chip, driving circuit and power supply.

White, ultra-violet, RGB, infra-red can be selected for each application.

LED output has neither fringe pattern nor speckle noise.

Strobe emission mode is achieved with external TTL trigger input.

Output fiber is selectable with 600um core for high output power or 200um core for small output beam.

Property

- Fiber output for easy use
- Ultra-compact package
- White, ultra-violet, RGB and infra-red
- Fringe-free and speckle-free output beam
- High output stability with cooler fan
- Strobe emission with external TTL trigger input

Application

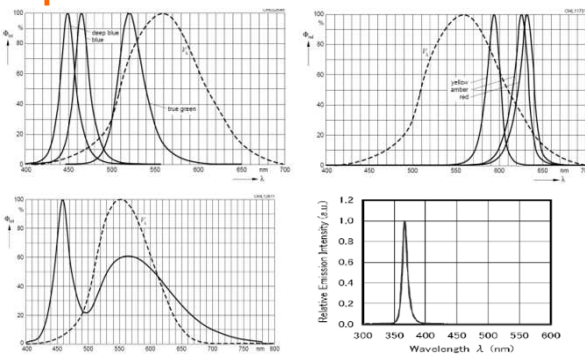
- Exciting source for fluorescence experiment
- Fringe-free and speckle-free optical measurement
- Microscope illumination
- Spectral analysis
- Small spot illumination
- Optical sensing

Specifications

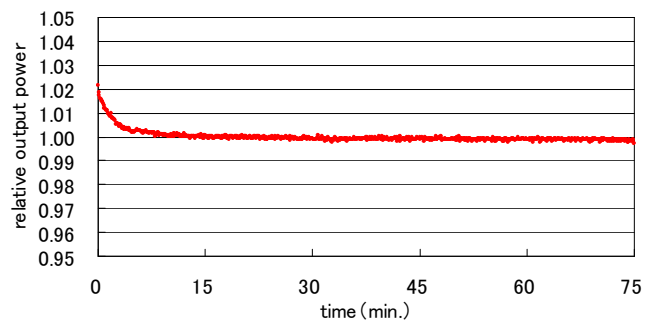
| color | white | UV | UV | blue-purple | deep-blue | blue | green | yellow | amber | red | IR | IR |
|-------------------------|---|-----|-----|-------------|-----------|------|-------|--------|-------|-----|-----|-----|
| peak wavelength(nm) | 460/560 | 365 | 385 | 405 | 449 | 465 | 520 | 597 | 624 | 632 | 860 | 950 |
| tolerance(nm) | --- | ±5 | ±5 | ±10 | ±10 | ±10 | ±10 | ±10 | ±10 | ±10 | ±10 | ±10 |
| spectral width(nm) | 30/130 | 10 | 10 | 20 | 25 | 25 | 33 | 18 | 18 | 18 | 30 | 30 |
| maximum output power(1) | 15 | 10 | 10 | 5 | 25 | 25 | 10 | 6 | 20 | 25 | 15 | 15 |
| maximum output power(2) | 1.5 | 1 | 1 | 0.5 | 2.5 | 2.5 | 1 | 0.6 | 2 | 2.5 | 1.5 | 1.5 |
| device | high power LED chip | | | | | | | | | | | |
| fiber | 600um core NA0.48 or 200um core NA0.48, length<1m | | | | | | | | | | | |
| output connector | FC | | | | | | | | | | | |
| strobe mode | TTL input(low-on) maximum repetition ~1kHz | | | | | | | | | | | |
| power supply | AC100-240V 50/60Hz 0.2A | | | | | | | | | | | |
| dimension(mm) | 50(W)x40(H)x70(D) /200g | | | | | | | | | | | |

(1)600um core NA0.48 output (2)200um core NA0.48 output

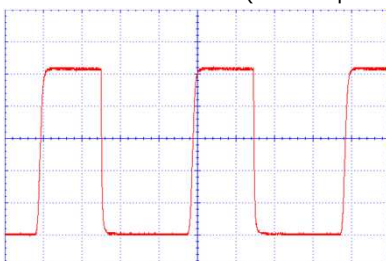
Spectrum



Stability (Red, under room temperature)



Strobe Emission (Red : repetition 500Hz)



External Dimension

