



IMM Photonics GmbH

Preliminary

WISPEC-LED White Light Source

(Art.-No. 160000017)

IMM Photonics presents a newly developed LED featuring a continuous spectrum from 400 nm to 750 nm. Due to their internal design, standard white LEDs have a gap in the spectrum between 400 nm and 450 nm as well as around 500 nm. The new WISPEC-LED now sets out to close this gap.



WISPEC-LED White Light Source

Depending on the application, the light can be individually adjusted due to the use of an individual addressable LED array. For example it is possible to generate "Cool White" with a colour temperature of > 7.800 K. A CRI (Colour Rendering Index) value > 90 can be realized as easily as a lighting current of >130 lm. A colour mixing stick (optional) provides a homogenous localized and spectral light distribution. An additional advantage is the missing Infrared radiation, which has detrimental effects on many applications.

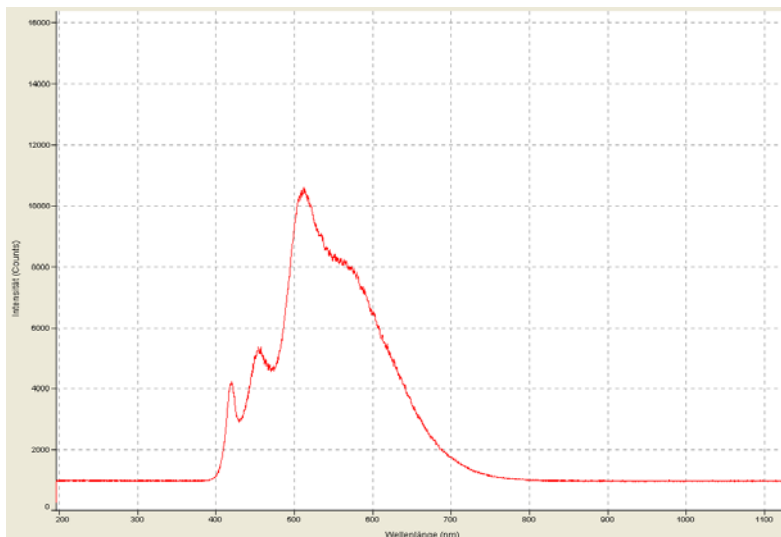
Applications

- specially developed to replace halogen lamps
- microscope lighting
- colour management

Purchased Parts WISPEC-LED (160000017)

- LED White Light Modul: 160000010
- Connecting Cable: 8900000853
- PCB for LED White Source Module: 2000000204
- Power Supply 6V / 3A: 8900000868

Spectrum



Technical Specifications LED White Source Module (160000010)

Wavelength range	400 nm to 750 nm
Maximum luminous flux	75 lm with colour mixing optic 130 lm without colour mixing optic
Max. CRI (Colour Rendering Index)	> 90
Adjustable colour temperature	2700 K to 7800 K
Colour mixture	Homogeneous dispersion with colour mixing optic
Max. current per chip	700 mA (blue 500 mA)
Mechanical dimensions light source	46.5 mm x 35 mm x 26.5 mm (L x B x H)
Mounting possibility for additional cooler	Thread (M4 - 5 mm depth) on the bottom of the module
Over temperature probe	NTC- Resistor thermal connected with the LED

Connecting cable (8900000853)

Length / Number of pathways	100 mm / 10
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PCB for LED white source module (2000000204)

Mechanical dimensions PCBA	45 mm x 45 mm x 18 mm (L x B x H) Switch grows out 18 mm of the surrounding of the PCBA
Max. current	2.2 A
Over temperature protection	If the temperature at the LED is getting higher than 90°C the PCBA shuts down. To reset the protection please switch off the PCBA and switch it on again.
Connection for external fans	There is a contact tab for a 6 V fan. The fan is necessary if you use the max. output power of the LED.
Brightness adjustment	The current for the single LED Chips can be separately adjusted by potentiometers (Dim factor 1: 20). Additionally the current for all LED Chips can be adjusted by another potentiometer (Dim factor 1: 200) without having any change in the spectrum.

Wall power supply 6V / 3A (8900000868)

Current supply	Wall plug transformer 6V / 3A, coaxial power connector (Inner diameter 2.1 mm , outer diameter 5.5 mm)
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