# BRETON 12



## **Broadband multiLED Light Source**

BRETON 12 is a broadband multiLED light source with 6 different peak wavelengths and 12 LEDs in the UV-VIS-NIR range. The current through each LED can be controlled with 1% precision through a touch screen or a USB connection to the computer.

This light source has been designed to obtain a high optical fiber coupling efficiency. It has been conceived by Pyroistech as a user-friendly, compact and silent tool, being ideal for fluorescence, spectroscopy and general fiber illumination applications.



#### **Characteristics**

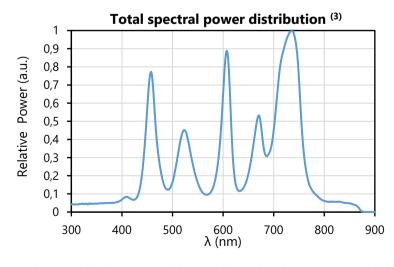
Optical characteristics (1)									
	(	Output co	SMA						
λ (nm)		N° of LEDs	Power (mW) Ø 1 mm, NA 0.5	Power (mW) Ø 1.5 mm, NA 0.5					
	400	1	1.25	3.47					
	450	3	8.49	22.15					
	525	1	2.10	4.27					
	590	1	1.99	4.85					
	665	3	6.50	18.68					
	730	3	6.22	13.89					

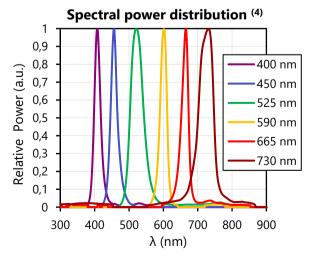
(1)	Typical c	onfiguration	of	LEDs.	Power	measured
with a Si photodiode (OPHIR™ )						

Electrical characteristics							
	Input Voltage	12 V					
Power input <sup>(2)</sup>	Input Current	3 A max					
трас	Connector type	DC female 2.1 mm					

(2) AC/DC adapter is included with the source. Input 100-240V 50-60Hz.

Other characteristics					
Working T, %RH	<50°C, <80 % HR				
Cooling	Fan				
Stabilization time	1 min typ.				
Size	152x152x135 mm				
Weight	1 kg				



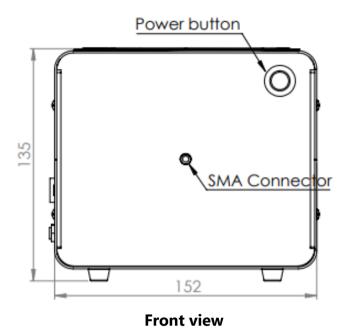


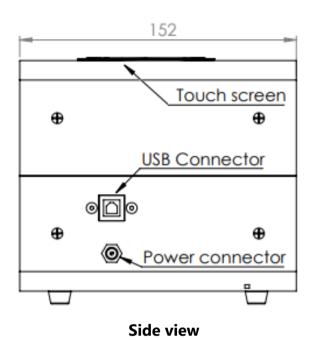
- (3) Normalised spectrum of the model BRETON 12 measured with all the LEDs at their maximum current using a CCD-based spectrometer.
- (4) Normalised spectrum of the LEDs contained in the model BRETON 12.

www.pyroistech.com info@pyroistech.com

## **BRETON 12**







\*all the dimensions are in mm

### **Operation**

Connect a proper power source (included with the light source) prior to operation.

The light source has an On/Off power button. Push the button to turn the light source on (a green light will shine the power button when the light source is on). Press the On/Off button to turn off the light source.

Control and monitor the current through each LED by using the touch screen or the USB remote control. This way, you will be able to configure your desired output spectrum.

## **Safety Notes**

- Do not remove or modify any installed safety device on this equipment. Doing so will void your warranty and create an unsafe operating environment.
- Dangerous currents are present in this device. There are NO user serviceable parts inside.
- Only allow qualified personnel to service this unit.
- Inspect this unit and its power supply before using it for the first time.
- Do not use the unit if it is damaged in any way. Contact your dealer for repair or replacement information.
- During operation do not cover the source.
- Optical radiation can damage your eyes. Do not stare directly at the light source output.



## Warranty

BRETON light source is covered by Pyroistech's 1 year warranty.