

# CoolLED pE-100-F Illumination

## Single Fiber Delivery

CoolLED's pE-100-F series LED illumination is designed for fiber delivery of specific wavelengths of light. The user can select from any of CoolLED's 20 LED wavelengths and specify at time of order. The LED system has been designed for efficient coupling into a wide range of multimode fibers. Provision has been made for the user to accommodate optical filtering (e.g. excitation) in the optical path before light enters the fiber, should this be desired. Operation is from a separate control pod.



### ▶ DUAL WAVELENGTH APPLICATIONS

Where two wavelengths are required, two pE-100-F units are used with the LED light combined into a single fiber output. An appropriate dichroic mirror will be provided to combine the two LED wavelengths specified by the user. Independent intensity control of each wavelength is available with single or simultaneous operation. A typical application for the dual illumination would be for channelrhodopsin and halorhodopsin activation for electrophysiology.



### ▶ PRODUCT DETAILS

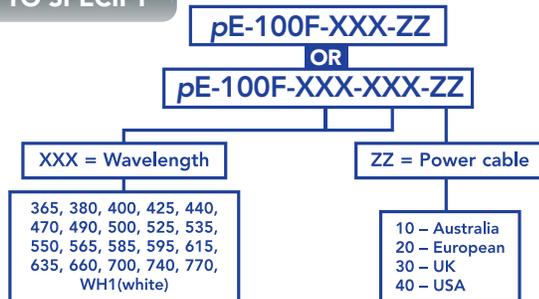
**Control:**  
Instant On/Off  
0-100% Intensity in 1% steps  
TTL trigger via BNC

**Power Consumption:**  
1W (idle)  
32W (full intensity)

**Input:**  
100-240V AC, 50/60 Hz, 1.5 Amps

**Operation:** 22 dBA spl

### ▶ TO SPECIFY



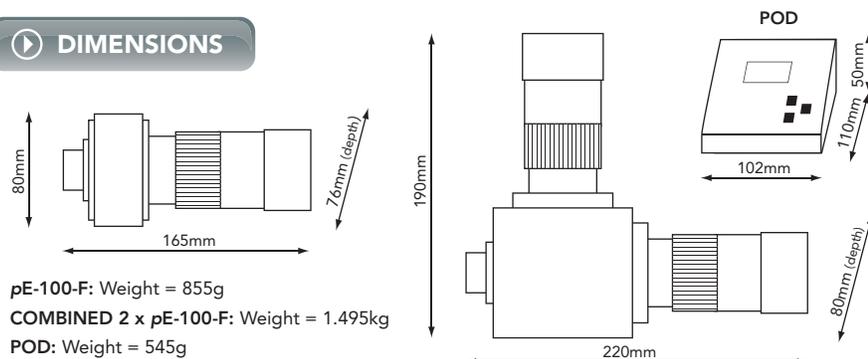
### ▶ FIBER OPTIONS

Fibers listed below will be supplied 2m long.

pE-F50-022-200-SMA	= 0.22 NA, 50um, SMA-SMA
pE-F100-022-200-SMA	= 0.22 NA, 100um, SMA-SMA
pE-F200-039-200-SMA	= 0.39 NA, 200um, SMA-SMA
pE-F50-022-200-C60	= 0.22 NA, 50um, SMA-Cleaved, 60mm bare
pE-F100-022-200-C60	= 0.22 NA, 100um, SMA-Cleaved, 60mm bare
pE-F200-039-200-C60	= 0.39 NA, 200um, SMA-Cleaved, 60mm bare

CoolLED can provide alternative fibers and terminations upon request.

### ▶ DIMENSIONS



### ▶ CONTACT



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