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## 810nm, 140mW, SMA Connector, Fiber-Coupled LED



Digital Fiber Coupled LEDs

Stock **#70-910** **1 In Stock**

- 1 + **S\$1,953<sup>00</sup>**

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### Product Downloads

### General

**Operating Lifetime (hours):**  
~10,000

**Contents of Kit:**  
1 x Fiber-coupled LED Unit  
1 x 12VDC Power Supply  
1 x International AC Socket Clip  
1 x USB to RS232 adapter cable

**Note:**  
Fiberoptic Patch Cords sold separately

## Optical Properties

Infrared **Color:**

810 (Nominal) **Wavelength (nm):**

37 (FWHM) **Bandwidth (nm):**

## Electrical

140 (typical, with 1000micron Core Fiber 0.50NA) **Output Power (mW):**

## Hardware & Interface Connectivity

SMA **Connector:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## Product Details

- Wavelengths from 275 - 940nm, with Broadband and Narrowband LED Options
- High Output Powers up to 250mW
- Integrated Driver and Controller for Ease of Use

Digital Fiber Coupled LEDs provide high radiant power with a spectrally stable output in a compact, easy to use form factor. Featuring an integrated driver and controller, a range of LED parameters can be controlled including output power, delays, triggers, pulse duration, as well as pulse width modulation (PWM) frequency and duty cycle utilizing the intuitive software interface. Designed with passive thermal management, these LEDs offer a long operating lifetime without the need for noisy fans that consume additional energy, and without the need for lamp replacement. Digital Fiber Coupled LEDs are ideal for use in life science and medical applications such as spectroscopy, optogenetics, fluorescence excitation, photodynamic therapy (PDT), and UV-based chemical and biological analysis. A user-friendly GUI is available for download that allows for computer control and integration into a range of programming languages including LabVIEW, MATLAB, and Python through serial communication.

**Note:** For maximum power output, it is recommended to use fiber patch cords with larger core diameters and high numerical apertures (NA) to optimize input coupling.