

## Model N475 Visible



The NewDEL™ VIS fiber-coupled LED product group encompasses eight narrowband sources with center wavelengths ranging from 425 nm to 680 nm. The collection includes phosphor-coated green and amber LEDs to address the so-called green gap problem – the lack of a high efficacy semiconductor materials system for the greenyellow spectral region.



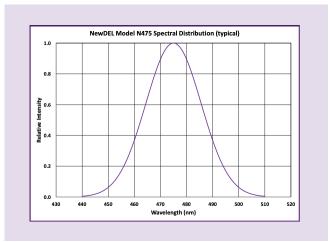
# POWER PANEL REAR PANEL

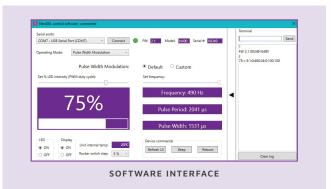
#### **SPECIFICATIONS**

- Central wavelength: 475 nm
- FWHM: 25 nm
- Recommended fiber patch cable: FP63P, High-NA, Plastic Optical Fiber, NA 0.63
  - Optical power emitted (typical maximum): 155 mW
- SMA905 connector (FC option upon request)

#### **APPLICATIONS**

- Photocatalytic hydrogen production
- Photobiomodulation therapy
- Fluorescence excitation of FITC and GFP
- Antimicrobial light-based therapies
- Photocuring of camphorquinone based dental composites
- Optogenetic activation of ChR2

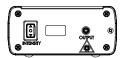


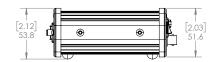




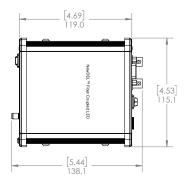


### **NewDEL™ Dimensions**









# **NewDEL™ Specifications**

	SMA 905 type connector for multi-mode optical fibers with core diameters up to 1000 µm (FC connector optional)
Optical output power (typical)	<b>155</b> mW
Wavelength range	<b>475</b> nm
Operating modes - Pulse Width Modulation	Default 490Hz Custom (user set) 1-500Hz
	Set Pulse Delay 10ms – 32s Set Pulse Duration 10ms – 32s
Operating modes - External Trigger	LED output controlled by 0-5V TTL
	RS-232, DB-9 female Converter cable RS-232 to USB-A (FTDI) is included
	Optically isolated BNC, 50 Ohms for External Trigger mode Cable not included
	BNC, 50 Ohms for reading PWM or pulse waveform Cable not included
	Front panel intensity switch for Pulse Width Modulation mode Step size set by software; 1, 2, 4, 5, or 10 percent
Remote Operation - Software	Windows based GUI, available by download
	Serial commands are provided to control a unit and query its status using a terminal program or other suitable programming systems
	Passive Matrix OLED, can be deactivated through software % PWM Intensity or trigger operating mode with frequency
	Passive cooling via conduction Internal temperature sensor/monitor readable by software
	Universal AC/DC Wall adapter, 90 to 264VAC at 47 to 63Hz input 12V 12W output, 1.5 m cord length, DOE VI Efficiency, Class B EMI, Safety Approvals: cUL/UL, RCM, CB, CE (international socket blade options)
Dimensions/Weight	4.7 x 4.5 x 2.0 in (119.1 x 115.1 x 51.6 mm) / 1.1 lbs (0.5 kg)

## Peripherals & Accessories











