



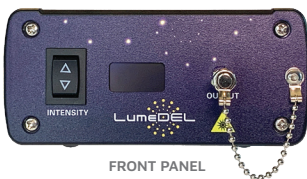
Model N395 [Ultra Violet]

# NewDEL™ UV Fiber-coupled LED

*Meticulously engineered photonic tools built to advance the goals of our customers, whether they are forging new paths in scientific discovery or implementing an ongoing project.*



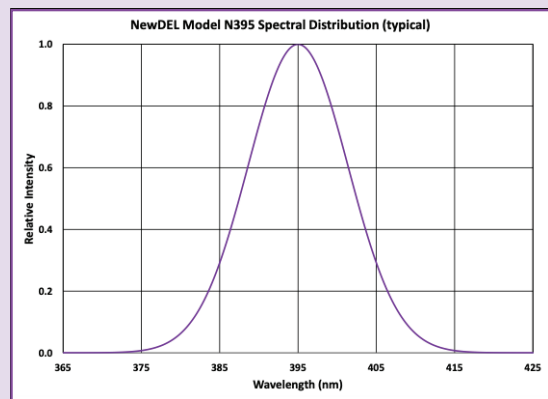
The NewDEL™ UV product group combines high performance and flexibility to serve both scientific and industrial research. Because most UV applications require increased levels of output, NewDEL™ UV are designed to deliver the highest radiant power possible from a one-millimeter diameter fiber.



FRONT PANEL



REAR PANEL

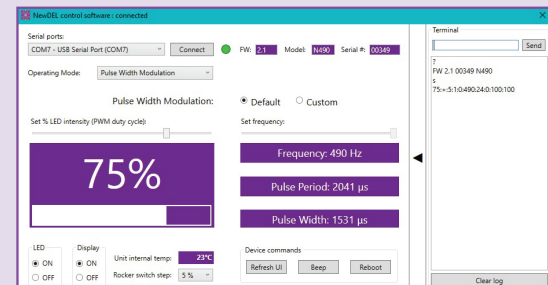


## SPECIFICATIONS

- Central wavelength: **395 nm**
- FWHM: 15 nm
- Recommended fiber patch cable: **FP63P**, High-NA, Plastic Optical Fiber, NA 0.63
  - Optical power emitted (typical maximum): **245 mW**
- SMA905 connector (FC option upon request)

## APPLICATIONS

- Photocuring
- Fluorescent leak inspection
- GFP and DAPI fluorescence excitation
- Deep-blue autofluorescence (dbAF) excitation
- Actuation of fluid flow in microfluidic devices



SOFTWARE INTERFACE



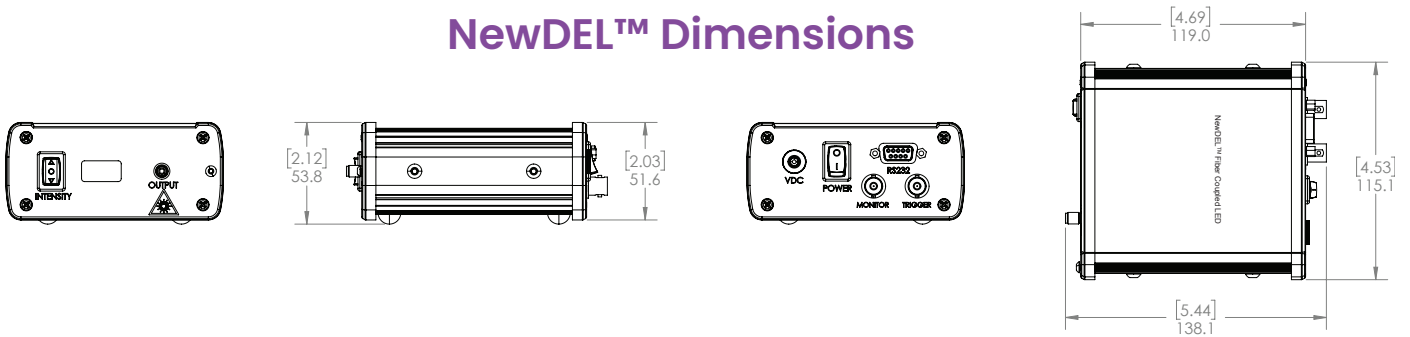
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## NewDEL™ Dimensions



## NewDEL™ Specifications

|   |  |
|---|--|
| <b>Optical coupling</b>                         | SMA 905 type connector for multi-mode optical fibers with core diameters up to 1000 $\mu\text{m}$ (FC connector optional)  |
| <b>Optical output power (typical)</b>           | <b>245 mW</b>  |
| <b>Wavelength range</b>                         | <b>395 nm</b>  |
| <b>Operating modes - Pulse Width Modulation</b> | Default 490Hz Custom (user set) 1-500Hz  |
| <b>Operating modes - Internal Trigger</b>       | Set Pulse Delay 10ms – 32s<br>Set Pulse Duration 10ms – 32s  |
| <b>Operating modes - External Trigger</b>       | LED output controlled by 0-5V TTL  |
| <b>Serial Interface</b>                         | RS-232, DB-9 female<br>Converter cable RS-232 to USB-A (FTDI) is included  |
| <b>Trigger connector</b>                        | Optically isolated BNC, 50 Ohms for External Trigger mode<br>Cable not included  |
| <b>Monitor connector</b>                        | BNC, 50 Ohms for reading PWM or pulse waveform<br>Cable not included   |
| <b>Manual operation</b>                         | Front panel intensity switch for Pulse Width Modulation mode<br>Step size set by software; 1, 2, 4, 5, or 10 percent   |
| <b>Remote Operation - Software</b>              | Windows based GUI, available by download   |
| <b>Remote Operation - Programmability</b>       | Serial commands are provided to control a unit and query its status using a terminal program or other suitable programming systems   |
| <b>Front Panel Display</b>                      | Passive Matrix OLED, can be deactivated through software % PWM Intensity or trigger operating mode with frequency  |
| <b>Thermal management</b>                       | Passive cooling via conduction Internal temperature sensor/monitor readable by software  |
| <b>Power supply</b>                             | 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) |
| <b>Dimensions/Weight</b>                        | 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

