

# Prizmatix

## In Vivo Tool Box



## Optogenetics Tool Box – In-Vivo

*Ultra High Power LEDs and Fiber Optics for Moving Animals*

Prizmatix fiber coupled LEDs for In-Vivo Optogenetics deliver high power and great functionality at a reasonable cost compared to lasers and other LED products.

Our unique large chip LEDs can be used for bilateral stimulation using a single light source, a simple rotary joint and a Y shaped fiber.

Our high NA Plastic Optical Fiber optics are virtually unbreakable and optimized for LEDs

- **Ultra-High Power LEDs for long life and stability**
- **Bilateral stimulation with no additional equipment**
- **Extremely low torque rotary joint (patent pending)**
- **Durable high NA (0.63) plastic optical fibers**
- **Available - Blue, Red/Orange, Green, Violet, Yellow/Green**
- **To see the entire tool box go to:**

*[www.Prizmatix.com/rd/2.aspx](http://www.Prizmatix.com/rd/2.aspx) or visit our USA webstore: [www.GoldstoneScientific.com](http://www.GoldstoneScientific.com)*

Tel 248-436-8085

[sales.usa@prizmatix.com](mailto:sales.usa@prizmatix.com)

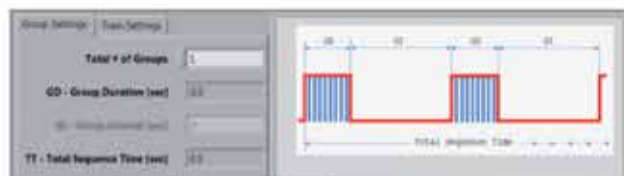
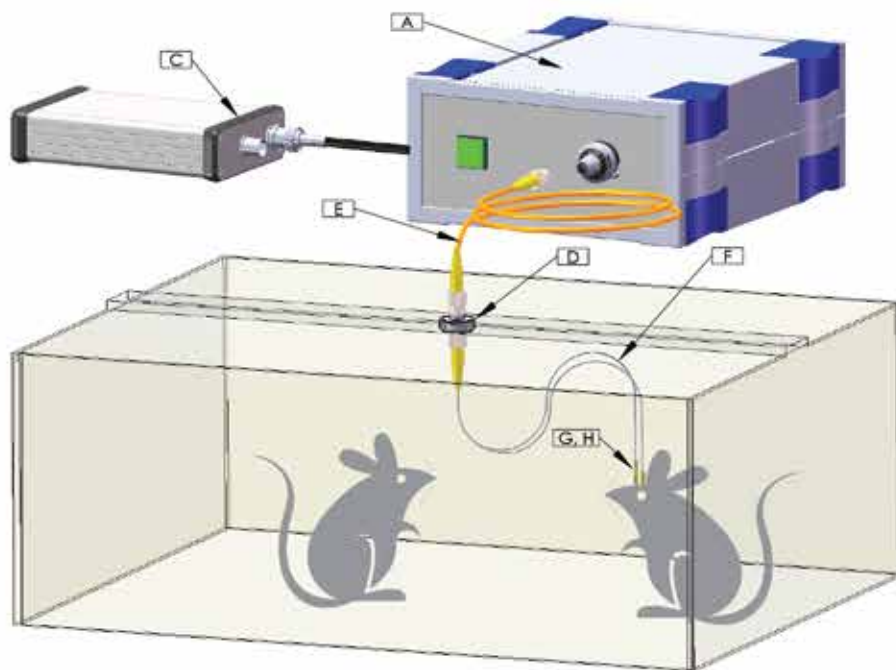
[www.prizmatix.com](http://www.prizmatix.com)



# Prizmatix

Your source for LEDs and Fiberoptics for Optogenetics

# Optogenetics Toolbox for In-Vivo Freely Moving Mammals



|   |                                                    |                                                                                                                           |
|---|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| A | Optogenetics-LED                                   | Blue (ChR1,ChR2), Green (ArchT), Red (eNpHR3.0, red-shifted ChR) ultra bright fiber coupled LEDs for in-vivo optogenetics |
| B | Dual-Optogenetics-LED                              | Dual (Blue, Green, Red) ultra bright fiber coupled LEDs with independent channels                                         |
| C | Pulser                                             | TTL pulse train generator featuring simple PC software for pulse programming                                              |
| D | Rotary-Joint                                       | Low friction fiber optic Rotary Joint for in-vivo optogenetics with smallest mammals                                      |
| E | Optogenetics-Fiber-1000                            | Polymer optical fiber, High NA, 1000um core, SMA to FC connectors                                                         |
| F | Optogenetics-Fiber-500<br>Optogenetics-Fiber-2x500 | Polymer optical fiber , High NA, 500um core, FC to ferrule. Dual (2x500) bundle available for bilateral stimulation       |
| G | Sleeves                                            | Zirconia sleeves for 2.5mm or 1.25mm cannulae                                                                             |
| H | Implantable Cannulae                               | Ferrules diameters: 2.5mm and lightweight 1.25mm for smaller animals as mice                                              |