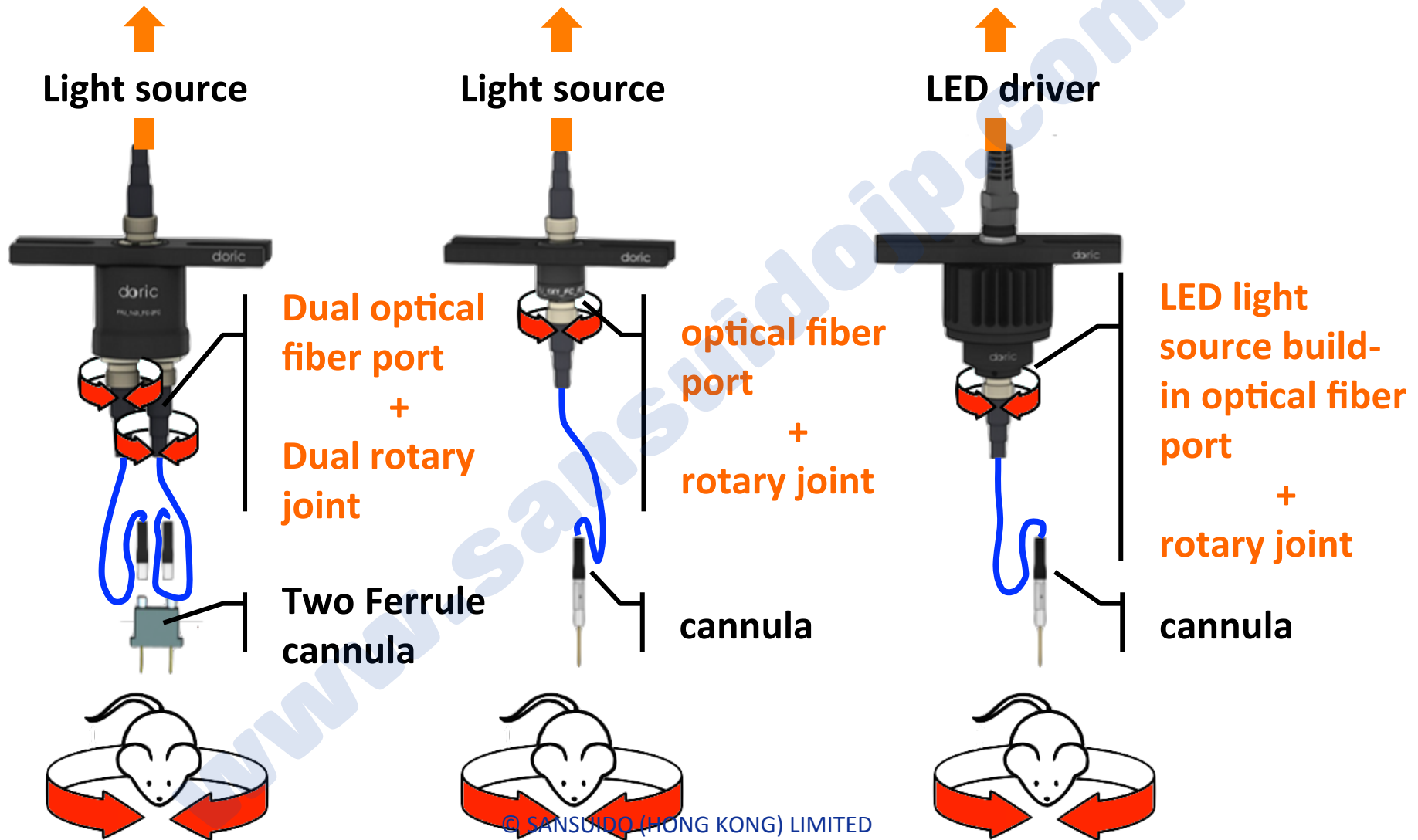


# The ways for release from fetter of confused lines

- 1. Optical fiber **rotary joints**
- 2. **Multi task** cannulas
- 3. IR signal **wire-less** optical stimulation system

# 1. Optical fiber rotary joints

(a part of products)



## 2. Multi task cannulas

(a part of products)

### Dual Fiber-optic Cannula



These cannulas are perfectly suited for **a bilateral brain stimulation or silencing.**

### Two Ferrule Cannula



These cannulas are perfectly suited for the applications where **two brain centers are optically stimulated or controlled.**

### Fiber-optic Array Cannula



The optogenetics experiments that **target multiple excitation sites**, require cannulas with multiple fibers arranged within an fiber array.

### Optic & Fluid Cannula



Experiments **require the introduction of the virus born proteins** like ChR2 to targeted cells or neurons and the illumination of the same through the fiber optic tip.

### Optic & Electric Cannula



**When chronically implanted in freely moving animal**, this cannula enables optical and electrical contact with specific neurons or other tissue.

### Optical & Micro-sampling Probe



A better **understanding of molecular interactions within the brain**, requires spatial and temporal precision when stimulating and sampling the brain areas.

# 3. IR signal wire-less optical Stimulation system (a part of products)

