

STG5-Opto

Robust, precise LED optical stimulation for diverse electrophysiology applications.

For use with MEA2100-Opto-Stim
(Sold separately)



Whether you need light-driven activation, inhibition, or complex multi-wavelength protocols, the STG5-Opto delivers clean, stable current output and seamless integration into your existing electrophysiology setup. Our intuitive MC_Stimulus III software gives you full control over stimulation patterns, timing, and experimental triggers.

- Consistent LED intensity across experiments
- **Fast rise time and high time resolution** for accurate reproduction of optical pulse trains
- **Seamless integration** with MEA systems, organoid workflows, and closed-loop experiments
- Compact footprint

Applications:

- Optogenetics
- Ion channel manipulation
- Retinal research (cellular & organoid)
- Cardiac optogenetics & pacing studies
- Arrhythmia modeling
- Network synchronization studies
- **And more.**

High temporal precision for clean optical pulses

Get sharp rise times, high-frequency pulse capability, and accurate waveform reproduction, even during fast or complex optical trains.

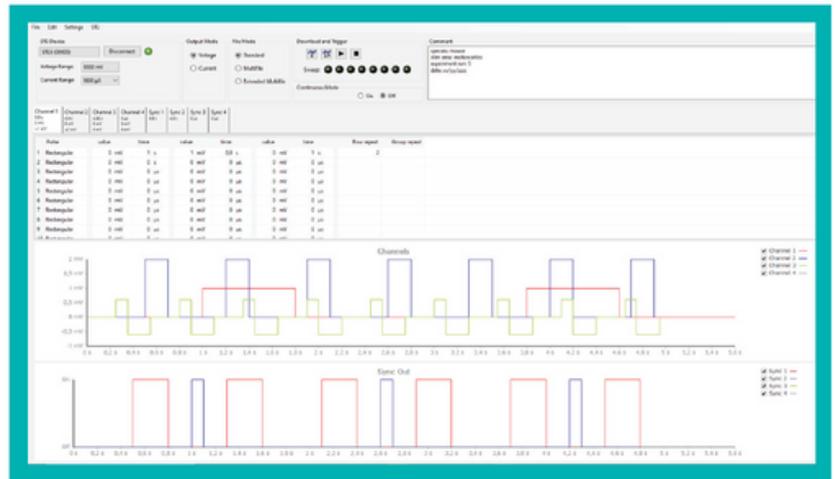
Product Description	Part Number
STG5-Opto Base Unit	891388
STG5-Opto Satellite Unit	891399
MEA-2100-Opto-Stim	891080

Robust, user-friendly software

The STG5-Opto includes **MC_Stimulus III** software, an intuitive and easy-to-learn solution that allows you to create and save custom light patterns quickly and easily – just define your waveform parameters, enter duration and repetition, and hit “Start.”

MC_Stimulus III also offers:

- Quick amplitude adjustments – select strength to choose a light with low or high intensity
- Synchronized stimulation and recording
- Trigger-based workflows with 5 μ s response time
- Support for complex feedback loops



Compact footprint and upgrade-friendly design

Save bench space and scale your system at any time. The STG5-Opto offers a low-profile, stackable format that fits into our modular system design and allows you to run up to 8 experiments at once.

Ready to learn more?



Schedule a meeting with us:



Book a demo:

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