MYOPULSE

Multi-channel stimulation protocol software for DMT CS4+ & CS8 stimulators

- **Comprehensive protocol creation** – build stimulation protocols with up to 50 frequencies, voltages and/or widths in one sequence.
- **Real-time progress tracking** – a live progress bar shows exactly where you are in a long protocol.
- **Multi-channel flexibility** – load different stimulation protocols independently across multiple channels.
- **Light & Dark mode** – an optimized interface built from experienced-researcher feedback.

MyoPULSE is DMT's stimulation controller software for the CS4+ and CS8 stimulators, giving researchers a comprehensive, flexible way to build and run electrical stimulation protocols for muscle and tissue physiology studies.

A single stimulation protocol can contain up to 50 different frequencies, voltages and/or stimulation widths. Extended protocols can be edited freely – stimulation sections can be added or deleted anywhere in the sequence, and existing protocols can be modified quickly without rebuilding from scratch.

MyoPULSE gives an overview of the entire stimulation protocol in one view, with a real-time progress bar that follows exactly where the protocol is during a long, complex run – making it easy to confirm tissue response as the experiment unfolds.

Different stimulation protocols can be loaded independently across multiple channels, and Single Twitch stimulation offers additional flexibility for simpler protocols. Light and Dark mode options let the interface match the lab environment.

WHY CHOOSE MYOPULSE

1. **Comprehensive protocols**
   Up to 50 frequencies, voltages and/or widths in a single sequence.
2. **Flexible editing**
   Add or delete stimulation sections anywhere in an existing protocol.
3. **Real-time progress bar**
   Always know exactly where you are in a long stimulation run.
4. **Multi-channel independence**
   Load different protocols efficiently across separate channels.
5. **Single Twitch flexibility**
   Quick, simple protocols alongside complex multi-parameter ones.
6. **Light & Dark mode**
   Interface options suited to the researcher's environment.

MYOPULSE

Protocol building & control

PROTOCOL BUILDING & CONTROL

MyoPULSE turns a sequence of frequencies, voltages and widths into a stimulation protocol you can build, edit, monitor and run across multiple channels.

Protocol building

- Combine up to 50 frequencies, voltages and/or widths per protocol
- Add or delete stimulation sections anywhere in the sequence
- Single Twitch mode for simple, single-pulse stimulation
- Full protocol overview in one view

Run & monitor

- Real-time progress bar tracks position in the protocol
- Independent protocols loadable across multiple channels
- Start, pause and stop control per channel
- Export stimulator protocols to PDF for records

APPLICATIONS

Built for researchers running controlled electrical stimulation protocols across one or many tissue channels.

Muscle & tissue stimulation studies

Apply controlled electrical stimulation to ex vivo preparations.

Multi-channel experiments

Run different protocols simultaneously across separate channels.

Twitch & tetanic response testing

Combine Single Twitch and multi-parameter protocols.

Protocol documentation

Export protocols to PDF for lab records and reproducibility.

Compatible with

DMT Stimulator – CS4+ | DMT Stimulator – CS8 | DMT Organ Bath & Myograph Interface Units

MYOPULSE

Key specifications & getting started

KEY SPECIFICATIONS

SOFTWARE	Version	**MyoPULSE 3**
	Protocol capacity	**Up to 50 frequencies / voltages / widths**
	Channels	**Multiple, independently configurable**
	Export	**Stimulator protocols to PDF**
STIMULATOR COMPATIBILITY	CS4+	**4-channel stimulator**
	CS8	**8-channel stimulator**
COMPUTER REQUIREMENTS	Operating system	**Windows 10 Pro 64-bit**
	CPU	**Intel / AMD i7 core or later**
	RAM	**8 GB**
	USB	**2.0 or later**
	Screen resolution	**1680×1050 (recommended)**
INTERFACE REQUIREMENTS	Organ Bath / Myograph Interface firmware	**v3.23 or later**

GETTING STARTED

MyoPULSE runs on a compatible lab computer connected to a CS4+ or CS8 stimulator via the organ bath/myograph interface.

INSTALLATION

Install MyoPULSE on a compatible Windows 10 Pro computer and connect the CS4+ or CS8 stimulator via the organ bath/ myograph interface.

BUILDING PROTOCOLS

Start from a New protocol or Single Pulse template, combine up to 50 stimulation sections per protocol, and save channel configurations for reuse.

SUPPORT & UPGRADES

Confirm interface firmware is v3.23 or later before installing. Contact DMT to confirm hardware/software compatibility when upgrading.

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