

STIMTRACKER DUO, STIMTRACKER QUAD

Mark. Sync. Audit.

STK100-DUO-IO, STK100-DUO-STP, STK100-QUAD-IO, STK100-QUAD-STP

StimTracker Duo and Quad autonomously detect the onset of events to avoid operating system delays. The Quad adds direct TTL output, support for vocal response onset (voice key), and more light sensors.



Onset of Auditory Stimuli—Pass the audio via StimTracker, set threshold, and let it do the rest.

Onset of Visual Stimuli—Fast light sensors included.

Event Codes via USB—Send event codes from your stimulus presentation computer for added information

Onset of Key Response—Compatible with RB response pads (Quad model also accepts TTL input)

Onset of Vocal Response—It's like getting a free voice key device (Quad model only).

StimTracker uses m-pod to deliver its signals, which

means you can choose which types of events are sent to the recorder.

Jitter Free USB

When sending event markers via USB, StimTracker delivers them with jitter free precision when used with SuperLab 6 or with our open source Python or C++ libraries. Delay is guaranteed to be 2 milliseconds exactly, every time. Other software packages may not deliver jitter free performance; for instance, E-Prime E-Basic code precision is 5 to 8 ms.

Power Packed

The combination of powerful 32-bit microprocessors and our software makes possible the following features:

Async Output

To send a 10 ms long event marker with other I/O devices, an app needs to raise the output line, wait 10 ms, then lower the line. With StimTracker, all the software needs to do is send a command and resume working while microprocessors take care of delivering the pulse.

Scheduler

A truly unique feature: tell StimTracker when to send pulses at a later time, e.g. to mark emotional points during a movie presentation.

Pattern Generator

Use StimTracker as a signal generator on an output line or as a more complex pattern generator.

Use the AcqKnowledge Digital inputs to stim events tool to automatically score and label digital event marks from the SuperLab presentation. The digital channels are interpreted as a binary number. Each stimulus event placed into the graph has the corresponding number included with its label. This allows further analysis to distinguish between different types of stimulus events for automated event related analysis.

StimTracker	Quad	Duo
Marks onset of visual stimuli	✓	✓
Number of light sensor inputs On Quad model, you can use 3 light sensors and a microphone (for voice key), or 4 light sensors and no microphone.	3 + 1	2
Marks onset of auditory stimuli	✓	✓
Marks onset of RB-x40 response pads key presses	✓	✓
Marks onset participant vocal response via microphone	✓	—
Accepts external TTL input	✓	—
Time-stamped output via USB	✓	✓
Number of simultaneous m-pod outputs	3	2
Direct TTL output <small>m-pod delivers TTL output as well.</small>	✓	—