

MO Ψ ART

REACTION TIME/ MOVEMENT TIME PANEL

WITH PSYMCON CONTROL

Model 35600



General Description:

Lafayette Instrument Company, the leader in motor behavior instrumentation is proud to introduce our new system of reaction time measurement, the Multi-Operational Apparatus for Reaction Time (MO Ψ ART) system.

With MO Ψ ART you can employ simple reaction time tasks such as Go/No Go tasks for the study of higher centers of the brain, and more complex discriminate reaction time tasks to study cognitive processing. The system may also be used to study executive functioning through the use of an interference tapping task. While subjects are required to attend to a reaction time task they must execute a simultaneous tapping task.

MO Ψ ART's main menu allows the user to select one of the following six test types:

1. **Simple Reaction Time:** Choose either simple stimulus with response or Go/No Go reaction paradigm.
2. **Choice Reaction Time:** Choose from multiple stimuli and multiple responses.
3. **Simple Reaction/Movement:** Choose either simple stimulus with response or Go/No Go reaction paradigm with an added movement response.
4. **Choice Reaction/Movement:** Subject starts from a single key and responds to one of multiple response keys based on stimulus presented.
5. **Simple Tap Test:** The subject taps one key as quickly as possible during a timed test period.
6. **Complex Tap Test:** The subject alternately taps two separate keys as quickly as possible for a predetermined test time.

Additional Tests w/PsymSoft:

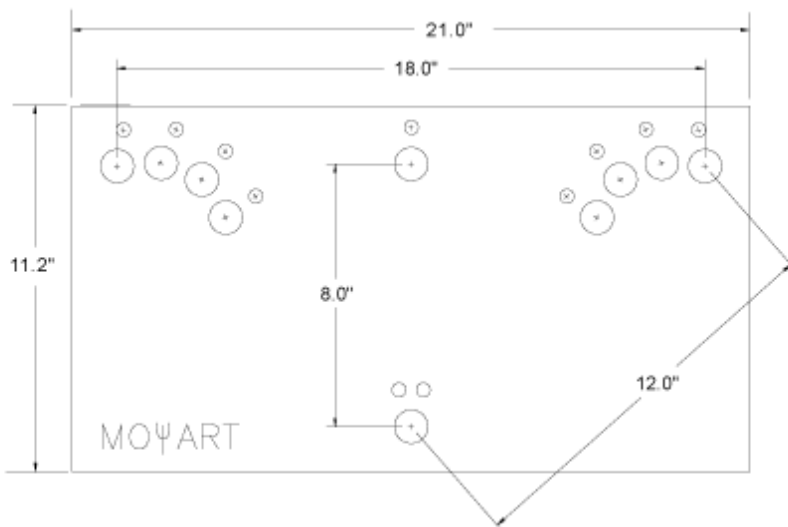
Reaction Time + Tapping Test: The subject is instructed to perform a reaction time test while simultaneously performing a tapping task.

Within each of these test types, the user can set several variable parameters to meet their needs. These parameters include: Choice of Stimulus, Reaction Method, Cue Type, Length of Cue, Error Types, Response Time Out and Random Presentation.

REACTION TIME/
MOVEMENT TIME PANEL

Specifications:

- Stimulus:** Choice of (9) tri-color lights, high tone or low tone, random or fixed presentation
- Reaction / Movement Keys:** (10) touch sensitive keys with inner and outer target hotspots for accuracy measurement
- Cue:** Choice of tri-color light, high tone or low tone
- Cue Time:** Fixed, random, or none
- Cue Time Range:** Variable from 0 - 25.5 seconds, 0.1 second resolution
- Error Type:** Early response, no response, incorrect response or inaccurate response
- Response Time Out:** Variable from 0 - 25.5 seconds, 0.1 second resolution
- Tapping Duration:** Variable from 0 - 255 seconds, 1.0 second resolution
- Power Requirements:** 12VDC, 1.0 Amp supplied with AC adapter
- Computer Connection:** USB
- Timing Resolution/Accuracy:** 1.0 millisecond \pm .001%
- Dimensions:** 21.0" x 11.2" x 2.5"
- Control Interface:** Lafayette Instrument's PsymCon Model 35500 or PsymSoft Model 35800, Lafayette Instrument's psychomotor data collection instrument control software for movement sciences



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Options:

- Foot Switch Response Pads Model 35603
- SenseTouch - Single Touch Key and Stimulus Light Model 35602
- PsymSoft - Psychomotor Data Collection and Instrument Control Software Model 35800
- Other panel configurations available. Please contact us with your custom requests

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