



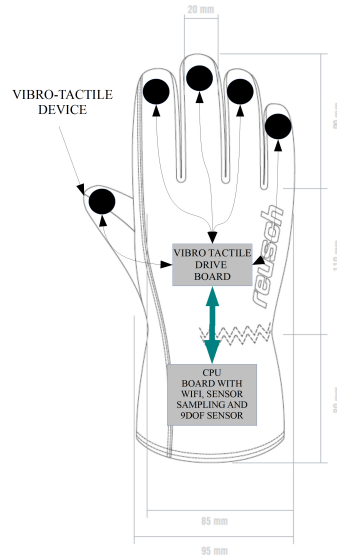
*The global leader in professional instrumented data gloves*



### VMG 35 Plus™

The VMG 35 Plus™ is a complete tactile feedback solution for the VMG 30™. The VMG 35 Plus™ system includes the VMG 30™ and (5) vibro-tactile actuators - one on each finger of the VMG 30™ letting the user "feel" their virtual environment.

The actuators are embedded inside of the glove for form and function. Each actuator can be individually programmed to vary the strength of the touch sensation.



### HAPTIC FEEDBACK

#### ACTUATOR SPECIFICATIONS

- Body diameter: 10mm
- Body length: 3.6mm
- Rated resonant frequency: 175Hz
- Typical Operating current: 90mA
- Normalised amplitude: up to 1.4G
- Max. Start Voltage: 0.15V
- Max. operating Voltage: 2.05V
- Typical Rise Time: 19ms
- Typical Stop Time: 275 ms
- Modulation step: 256
- UART communication: 115200 bps
- UART logic levels: 3.3V
- Typical Rise Time: 19ms

#### DRIVER UART COMMANDS

- Start vibration
- Set vibration level (0-255)
- Stop vibration

### SOFTWARE

Virtual Motion Labs provides both software and a software development kit (SDK) which produces detailed finger, hand and arm movement allowing users to interact with their virtual environment in real-time.

### FEATURES

- Software management for data glove trimming and data sampling.
- Complete SDK for custom software design.
- Offers an object-oriented model with an accompanying C++ library. Unity driver included.
- Provides a general framework for constructing hand-enabled simulations from scratch or for integrating hand-interaction into existing applications.
- Offers full network support. A user can run an application on a host computer while getting device data from another machine, permitting interaction with geographically distributed teams.
- Supplies an open API for model import and interfacing with third-party visualization software. VRML/Cosmo (SGI Optimizer 1.2) implementation is included.
- Provides significantly improved overall structure with better run-time integrity and more complete error handling.
- Supplies a complete set of open source demonstration applications showing how each of the tool kit features can be used in your development.
- Supports fast production with real-time data capture using 90 Hz calibrated kinematic output.
- Supplies intuitive, easy-to-use controls through the glove calibration interface.
- Provides a familiar interface by displaying calibrated sensor data in the MotionBuilder interface, formatted in both hierarchy and constraint formats.

***Call Virtual Motion Labs today for your complete data glove solution.***



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