



The global leader in professional instrumented data gloves

VMG 30™

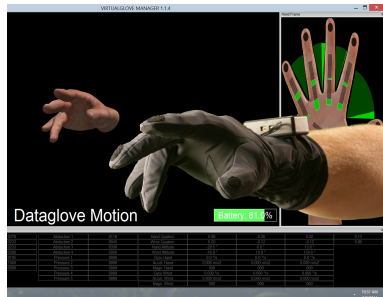
The new wireless, Bluetooth 30 sensor VMG 30™ data glove meets the needs of the motion capture and animation industry. Featuring a new streamlined professional design that allows for wireless mobility, the VMG 30™ Data Glove really delivers!



The VMG 30™ data glove system provides up to 30 high accuracy joint-angle measurements. It uses resistive bend sensing technology to accurately transform finger and hand

motion into real-time data.

The VMG 30™ can be used in a wide variety of applications including virtual reality, motion capture, animation and robotics.



SENSORS

- Very thin resistive bend sensors: less than 0.35mm thickness.
- 12 bit ADC sampling for accurate bend detection.
- 2 Sensors per finger.
- 4 Abduction sensors.
- 1 Palm arch sensor.
- 1 Thumb crossover sensor.
- 5 Pressure sensors, very thin: less than 0.35 thickness.
- Complete 9-DOF orientation sensors (roll, pitch and yaw) for hand orientation and wrist orientation; the sensors mount a 3 axis gyroscope, a 3 axis accelerometer and a 3 axis magnetometer.

CPU

- 32 MHz CPU board, very low power for battery operated data elaboration and transmission.
- USB connector for wire communication and firmware upgrade.
- On board Bluetooth module for wireless data communication.
- High performance Lithium-Polymer Battery for long standing operation (up to 4 hours).
- On board elaboration of the hand and wrist orientation.



SOFTWARE

- 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 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.

INCLUDED

The VMG 30™ includes one data glove, batteries, USB cable, Software and SDK.

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



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