

VMG 8™



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Data Glove

Category:

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Practical and economic, the wireless, Bluetooth, 8 sensor VMG 8™ is a professional and multipurpose VR Glove.

The VMG 8™ VR glove system provides high accuracy joint angle measures sensors. It uses bend sensor technology to accurately transform finger and hand motion into real time data.

The VMG 8™ can be used in a wide variety of applications including virtual reality, motion capture, animation, robotics and medical.

Sensors:

Very thin bend sensors: less than 0.35mm thickness.

12 bit ADC sampling for accurate bend detection.

1 Sensor per finger

Complete 9-DOF orientation sensors (roll, pitch and yaw) for hand orientation; the sensors mount a 3 axis gyroscope, a 3 axis accelerometer and a 3 axis magnetometer.

Sensors are removable and the glove machine washable

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 5 hours).

On board elaboration of the hand of wrist orientations.

Software:

Software management for data glove trimming and data sampling.

Complete SDK for custom software design - Unity Plug-In included.

Offers an object-oriented model with an accompanying C++ library.

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.

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 8™ includes one data glove, batteries, USB cable, Software / SDK and Unity Plug-In.