

# 5DT Data Glove Ultra Series

*The 5DT Data Glove Ultra has been designed to satisfy the stringent requirements of modern Motion Capture and Animation Professionals.*

It offers comfort, ease of use, a small form factor and multiple application drivers. The high data quality, low cross-correlation and high data rate make it ideal for realistic realtime animation.



## Features

### ● Advanced Sensor Technology

This new range of data gloves from 5DT features a completely redesigned sensor technology. The new sensors make these gloves more comfortable and give more consistent data across a large range of hand sizes. Cross-correlation has been reduced significantly

### ● 5 and 14 Sensor Gloves Available

The 5DT Data Glove Ultra range is available in a 5 sensor and 14 sensor configuration with a host of options such as right- and left-handed versions.

### ● Interface Options

The Ultra range of data gloves now comes standard with a USB interface, eliminating the need for an external power supply. An open-source, open-platform serial interface is available for workstation or embedded applications.

### ● Bluetooth Wireless Option

A wireless option is available, based on the latest Bluetooth technology for high bandwidth, wireless connectivity up to a range of 20m. The wireless kit can run for 8 hours off a single battery pack. The battery pack can be exchanged in seconds when necessary.

### ● Cross-Platform SDK

The glove SDK is available for Windows as well as Linux and UNIX. It is also possible to interface the glove without the SDK since it has an open-source communications protocol.

### ● Wide Application Support

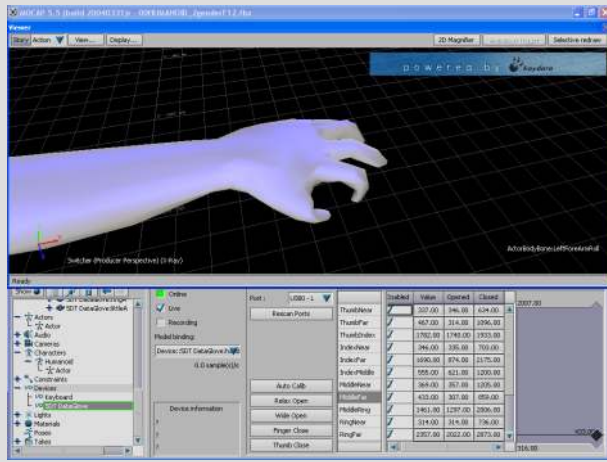
The 5DT Data Glove is now supported in most of the leading 3D modeling and animation packages.

## Options

- 5 & 14 Sensor Gloves
- Wireless Kit
- Serial Interface Kit
- MRI Glove Versions
- Kaydara MOCAP Driver
- Discreet 3DS Max Driver
- Alias Maya Driver
- Softimage|XSI Driver
- UNIX Driver

## Specifications

	5DT Data Glove 5 Ultra	5DT Data Glove 14 Ultra
Material	Black Stretch Lycra	Black Stretch Lycra
Sensor Resolution	12-bit A/D (typical range 10 bits)	12-bit A/D (typical range 10 bits)
Flexure Sensors	Fiber Optics Based 5 Sensors in total 1 Sensor per finger, measures average of knuckle and first joint.	Fiber Optics Based 14 Sensors in total 2 Sensors per finger, one sensor for knuckle and one for first joint. Abduction sensors between fingers.
Computer Interface	Full-speed USB 1.1 RS-232 (via optional serial interface kit)	Full-speed USB 1.1 RS-232 (via optional serial interface kit)
Power Supply	Via USB Interface	Via USB Interface
Sampling Rate	Minimum 75Hz	Minimum 75Hz



## Application Drivers

The 5DT Data Glove is now supported in more applications than ever before, including

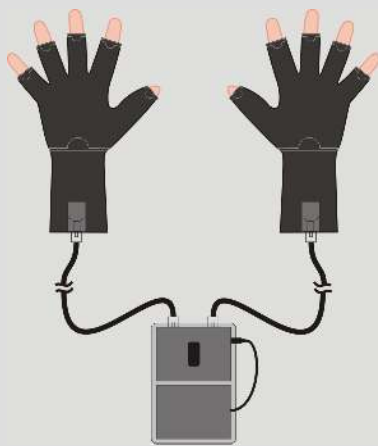
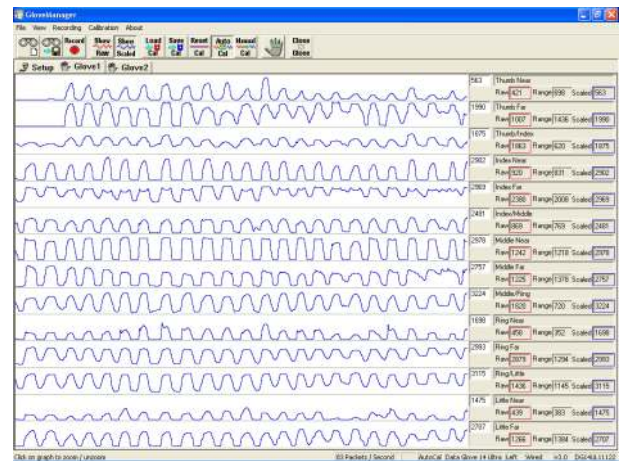
- Kaydara MOCAP
- Discreet 3D Studio Max
- Alias Maya
- SoftImage|XSI

The drivers allow for the animation of hands as well as using the glove as a puppeteering tool.

## SDK and GloveManager Utility

The 5DT Data Glove Ultra series is supported by a cross-platform SDK for Windows, Linux and UNIX operating systems. Included as standard for Windows is the GloveManager utility which allows you to do the following:

- Perform glove diagnostics
- Record glove data to file
- Support multiple gloves simultaneously
- Stream TCP/IP data for remote operation
- Perform automatic calibration
- Fine-tune calibration
- Create, save & load calibration



## 5DT Ultra Wireless Kit

The 5DT Ultra Wireless Kit is a plug-and-play kit for the 5DT Ultra series of data gloves. Each belt-worn wireless kit is designed to transmit the data for **2 gloves** simultaneously. This means that a single wireless transceiver and single battery pack is used for both gloves, saving both space and power. Up to 4 wireless kits (8 gloves) can be used at the same time.

- Latest 2.4GHz Bluetooth spread-spectrum technology
- Long battery life - more than 8 hours
- Small form factor - 4.33x3.27x1.65in (110x83x42mm)
- Light weight - 10.6oz (300g) with battery pack
- Belt included as standard
- Spare battery pack included

## About 5DT

5DT <Fifth Dimension Technologies> is a high technology company specializing in Virtual Reality (VR). 5DT develops, produces and distributes affordable VR hardware, software and systems. 5DT also offers a wide range of Training Simulators and Computer Based Training (CBT) Systems in the Aerospace, Automotive, Defense, Entertainment, High Voltage, Marine, Medical, Mining, Sensor Modeling, Terrain Database and Visualization arenas.

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