PRIME II
Xsens Edition

Features

01
Precise Finger tracking

Merging robustness with precision, all Prime II series gloves incorporate industrial grade flex sensors fused with high performance inertial measurement units, raising the bar in high fidelity finger tracking. The flex sensors measure 2 joints per finger, enhanced with 11DOF tracking of individual fingers by the IMU's to ensure fine finger movements. IMU drift is prevented with newly implemented automatic filters, enhanced with reference points of the robust flex sensors. This enables detailed finger spreading measurement without losing continuous quality during a live performance capture.

02
Interchangeable Battery

All next generation Manus Gloves come equipped with interchangeable batteries, with massive upgraded battery life powering 5 hours of continuous uninterrupted motion capture time. Choose to charge the battery during use, or charge individually. Gloves instantly reconnect after swapping the battery, eliminating recalibration down time.

03
Universal Mounting System

One of the key features of the Prime II series is the easy implementation of third party hardware. For that reason the Prime II gloves come with a universal mounting system as standard, allowing the mounting of any type of tracker with dedicated adapters. These adapters slot in with ease on top of the Prime II series gloves.

04
Calibrate in 45 seconds

A 45 second turnaround is all it takes to get moving. With three simple gestures the Manus Prime II gloves take a quick and accurate calibration tailored to the users hands. Capturing larger groups is equally streamlined, Prime II supports simultaneous multi-user calibration resulting in smoother team sessions and maximized time, making the Prime II gloves an easy, time efficient choice.

05
Washable gloves

With many hours of use, it's essential to keep gloves in top shape and ready to go for your next session. We've made Prime II gloves washable by easy removal of sensors from the glove textile. Additional glove textiles can be acquired separately so all team members have their own personal set, simply swap the sensors from one textile to another to use the same hardware ensuring responsible hygienic use.

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The Prime II Xsens gloves come bundled with a perpetual license of Manus Core

Expand the Xsens suit

The push for perfect realism in 3D character animations seen in the dynamic worlds of games, film, animation, TV broadcast, and live entertainment means hardware and software remain top of its game and at the fingertips for all production teams. The Prime II Xsens gloves has been specifically developed to work seamlessly with Xsens MVN Animate, the 3D character animation software used by industry professionals over the world.

With direct integration into MVN Animate, the gloves quickly deliver technicians and artists complex and fine movements found in hand and finger gestures to create complete and believable 3D characters. The creative industries including motion analysis, industrial control and stabilization sectors already rely on the combination of Manus Prime II Xsens gloves, Xsens suits and MVN Animate to breathe life into their projects.

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Direct MVN Animate integration

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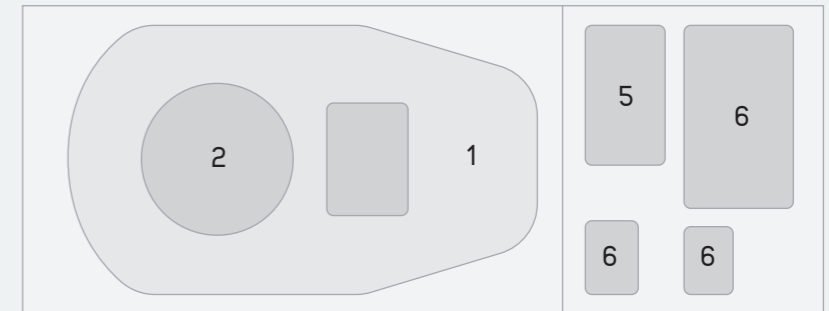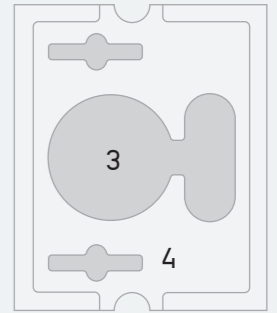
Easy integration of the Manus Gloves is one of our top priorities. By enabling direct integration into Xsens MVN software we have made the finger data compatible with all major 3D software packages.

What's in the box?

1. One pair of Manus Prime II Xsens Gloves
2. USB-C Cable x2
3. Dongle
4. Batteries x2
5. Charger
6. Mounting adapters

Compatibility

AUTODESK 3DS MAX

blender

CINEMA 4D by MAXON

Houdini

iClone 7 Real-time 3D Animation

MAYA

MOTIONBUILDER

unity

UNREAL ENGINE

PIXOTOPE

NOTCH

FABRIC ENGINE

Hardware specs.

Signal latency	<5ms
Sensor sample rate	90Hz
Battery duration	5 hours (swappable)
Charging	USB-C (5V)
Weight	60 grams
Wired Communication	USB-C
Wireless Communication	Proprietary high performance 2.4 GHz prototcol (certified)
Finger sensor type	10x 2DoF Flexible sensors and 6x 9DoF IMU's
Finger flexible sensor repeatability	>1.000.000 cycles
Orientation sensor accuracy	+/- 2.5 degrees
Textile information	High gauge, antibacterial, sports polyester