



MANUS™ PRIME II

To make use of the Manus Prime II gloves a valid license of Manus Core is required

Prime II for Virtual Reality

Merging real world interactions with virtual world experiences is now augmented thanks to Manus's quality Prime II Series gloves. With the broad hardware and software implementation possibilities, the Prime II gloves are the go-to product for any VR application. Accurate finger tracking and interaction framework allows handling small virtual objects naturally and with ease. Introduce haptics to heighten the senses for a truly believable experience in VR. Team collaborations for professionals prototyping high render models before it hits the manufacturing floor saves significant time and production cost. Virtual reality training and simulation is essential before entering high risk scenarios. Bring realistic hand and finger motions to 3D animated characters in VR experiences. Whatever your need, Manus has a glove that fits.

Prime II for Motion Capture

The Prime II gloves are an easy set-up, portable MoCap solution to produce high fidelity finger tracking from anywhere. The new generation wireless Manus gloves support simultaneous multi-user calibration during one set-up, with a short 45 second calibration process to get mocap sessions under way quickly. The built in Sensor Fusion allows users to measure each individual finger with a 11DOF ensuring fine motor control. Extend recording sessions with the powerful interchangeable battery.

PRIME II Core 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.

PRIME II Core Edition

Plugins

	 unity	 UNREAL ENGINE	 AUTODESK MOTIONBUILDER
Finger Tracking	✓	✓	✓
Hand Motion & Orientation	✓	✓	✓
Interaction framework	✓	✓	✓
Multi-user support	✓	✓	✓
Device diagnostics	✓	✓	✓
Connected devices	✓	✓	✓

Compatibility



✓ ^ Γ J □



 STEAM™ VR



antilatency



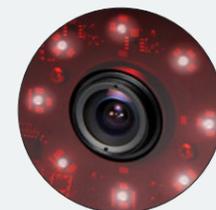
VICON



VIVE



VALVE INDEX



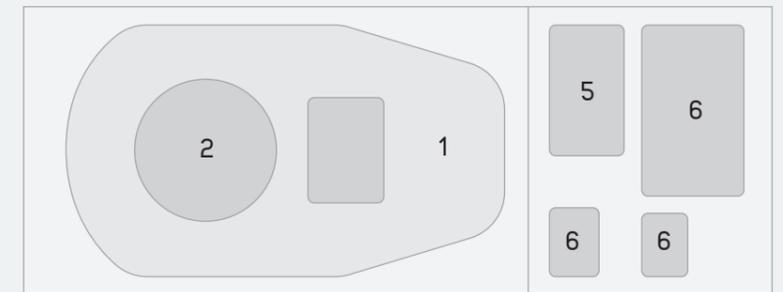
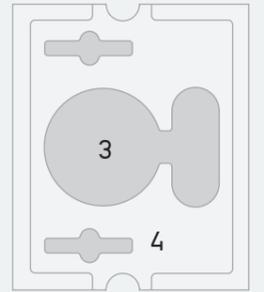
ART ▶



 OptiTrack

What's in the box?

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



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 protocol (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