**PRIME X**
# Haptic VR

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

## Grab, Touch, Feel

Feel the freedom of intuitive hand interaction in the virtual space. Compatibility with the leading VR visualization tools and engines is ensured through the Manus suite of integrations and plugins. Experience the new generation of data gloves with haptic feedback through the improved haptic modules. The Prime X Haptic VR gloves provide an immersive sense of touch with a higher feedback range than ever before.

## Features

01
## Fast, accurate, detailed

Featuring a proprietary flex sensor skeleton and a 9 DoF IMU for each finger, the Prime X Haptic VR gloves deliver high-fidelity finger tracking without any perceivable latency.

02
## Fully compatible

The Prime X Haptic VR gloves are compatible with industry-standard software. Unreal and Unity, with integrations for IC.IDO, VRED®, and Teamcenter®. Further integrations can be built using our Manus Core SDK.

03
## Universal Mounting System

The Universal Mounting System of the Prime X Series allows for a wide range of tracking attachments. Making the Prime X Haptic VR gloves compatible with:
> SteamVR with Manus Pro Tracker
> SteamVR with Vive Tracker 2.0 & 3.0
> ART
> Oculus Rift S / Quest Controllers

04
## Haptic Feedback 2.0

The haptic modules for the Prime X Haptic VR gloves provide even more powerful feedback on each individual finger. With the improved haptic modules, the Prime X Haptic VR gloves provide a sense of touch with a higher resolution than ever before.

05
## Removable electronics.

The electronics module can be quickly removed from the textile glove, allowing for the glove to be washed or replaced. Additional textile gloves are available, and the electronics module fits both sizes. The Prime X Haptic VR gloves are availible in the sizes S/M and M/L.

06
## Quick and Easy Calibration

Get started in less than a minute. With only three simple gestures the Prime X Haptic VR gloves calibration is accurately tailored to your hands. The calibration profile is then stored on the glove, allowing them to be used over multiple sessions.

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## Plugins/Integrations

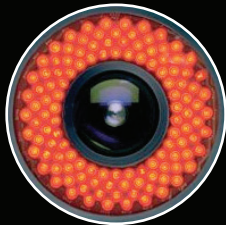| | unity | UNREAL ENGINE | IC.IDO |
|---|---|---|---|
| Finger Tracking | ✓ | ✓ | ✓ |
| Hand Motion & Orientation | ✓ | ✓ | ✓ |
| Interaction framework | ✓ | ✓ | |
| Muli-user support | ✓ | ✓ | ✓ |
| Device diagnostics | ✓ | ✓ | |
| Connected devices | ✓ | ✓ | |
| Haptic Feedback | ✓ | ✓ | ✓ |

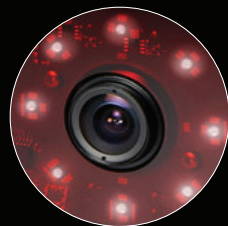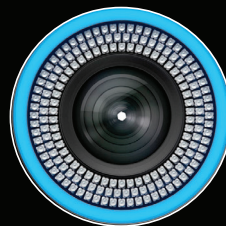## Compatibility
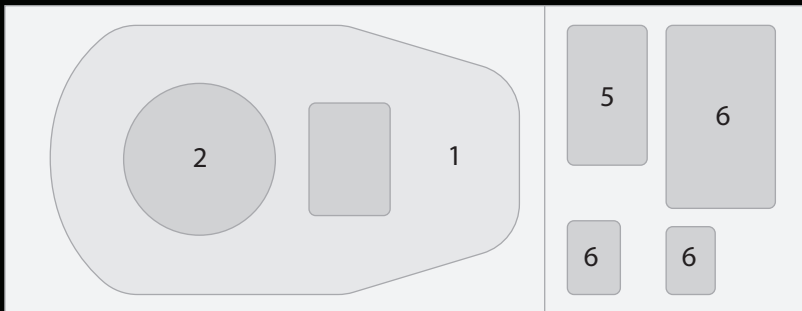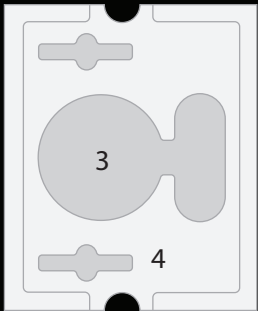
VARJO   STEAM°VR   oculus   VICON

VIVE   VALVE INDEX   ART▶   OptiTrack

## What's in the box?

1. One pair of Manus Prime X 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 prototcol (certified) |
| Finger sensor type | 5x 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 |