MANUS™

METAGLOVES **PRO**

PRO ACCURACY

Offering unmatched precision and accuracy. Repeatability is key when capturing reliable finger data. Record or livestream this high-fidelity finger data to any application through MANUS' suite of integrations and plug-ins.
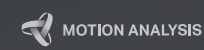
PRO USABILITY

Change between actors effortlessly with the swappable top module and immediately start capturing the vital finger data. With the simple calibration procedure and user-based calibration profiles, there is no need to re-calibrate between takes, saving valuable time.

PRO SCALABILITY

Featuring a swappable top module, showcasing a fully modular design. This flexibility lets you easily upgrade or replace components without replacing the entire glove. Customize your setup for different applications with any number of actors, ensuring long-term adaptability and cost-effectiveness.

PRO COMPATIBILITY

A variety of available MANUS software licenses make integration with any pipeline quick and easy to set up. For non-standard projects MANUS offers an SDK license to build custom integrations.

UNREAL ENGINE	Unity	MOTIONBUILDER	MOTION ANALYSIS
XSENS	OptiTrack	QUALISYS	VICON
NOKOV	FZMotion	STEAM VR	IC.IDO
.CSV Export	.FBX Export	ROS	

HARDWARE SPECS

Signal latency	≤ 7.5 ms
Finger sensor type	Absolute position, 3 axis rotation
Sensor sample rate	120Hz
Battery duration	up to 3 hours (swappable)
Charging time	2 hours USB-C
Weight	167 grams (incl. battery)
Wired communication	USB-C
Wireless communication	Bluetooth Low Energy 5
Wireless range	Up to 15 meters
Textile information	Multiple Sizes Available

WHAT'S IN THE BOX?

1x	Pair of Metaglove Pro Sensor Gloves
1x	Pair of Metaglove Pro Top Modules
1x	Wireless Dongle
4x	Metagloves Pro Battery
2x	USB-C Cables
1x	Quick Start Guide
1x	Travel Case

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Fingertip Modules

Fingertip sensor technology	5 EMF sensors with 6 DOF tracking
Fingertip sensor data	3 axis positional and 3 axis rotational
Fingertip sensor sampling rate	120Hz
Fingertip sensor motion-to-data latency (wired)	30ms
Fingertip sensor motion-to-data latency (wireless)	50ms

Top Module

Sensor connection	Interchangeable sensor connection
Status indication	Battery LED, Status LED
Battery LED	Charging, Fully Charged
Status LED	Connected Wired, Connected Wireless, Starting Up, Connecting, Pairing, Alert, Low Battery, Firmware Update

Connectivity

Connection options	Wired, Wireless
Wired communication	USB 2.0 Type-C
Wireless communication	MANUS Wireless Dongle (USB 2.0 Type-A)
Wireless dongle communication protocol	Bluetooth 5.0
Wireless dongle range	Up to 15 meters (49 feet) depending on environment
Wireless long range accessories	MANUS Bodypack Lite

Power

Battery type	Interchangeable
Battery model	Metagloves Pro Battery
Battery locking mechanism	Snap Fit
Battery life	Up to 3 hours of continuous use
Charging time	~2 hours
Charging options	Charge installed battery via USB Type-C (USB 2.0 with 5V/0.5A)
Charging accessories	MANUS Charging Station

Weight

Glove with electronics (including battery) for a medium hand	167 grams (5.88 ounces)

Dimensions

Hand module height	60.7mm (2.39 inches)
Hand module width	78.2mm (3.08 inches)
Hand module depth	34.3mm (1.35 inches)
Fingertip sensor height	20.3mm (0.80 inch)
Fingertip sensor width	14.6mm (0.57 inch)
Fingertip sensor depth	9.6mm (0.38 inch)
Wireless dongle height	27.8mm (1.09 inches)
Wireless dongle width	70.3mm (2.77 inches)
Wireless dongle depth	8.5mm (0.33 inch)
Wireless dongle cable length	43cm (16.93 inches)

Gloves

Glove type	Full finger glove
Fingertip sensor placement	Integrated in glove textile
Fingertip sensor attachment	Removable from glove textile
Fingertip sensor cables	Fully integrated, entirely enclosed
Finger haptic actuator placement	Integrated in glove textile
Finger haptic actuator attachment	Removable from glove textile
Finger haptic actuator cables	Fully integrated, entirely enclosed
Hand module attachment	Attached with integrated latch
Hand module attachment steps	1
Glove textile material	72% polyester, 28% spandex
Glove textile washability	Yes, with electronics removed
Glove size options	XS, S, M, L

XS	S	M	L
17-18 cm 6¾-7 in	18-20 cm 7-7¾ in	20-21 cm 7¾-8¼ in	20.5-23.5 cm 8-9¼ in
16.5-17 cm 6½-6¾ in	17-19 cm 6¾-7½ in	19-20 cm 7½-7¾ in	20-22 cm 7¾-8¾ in