



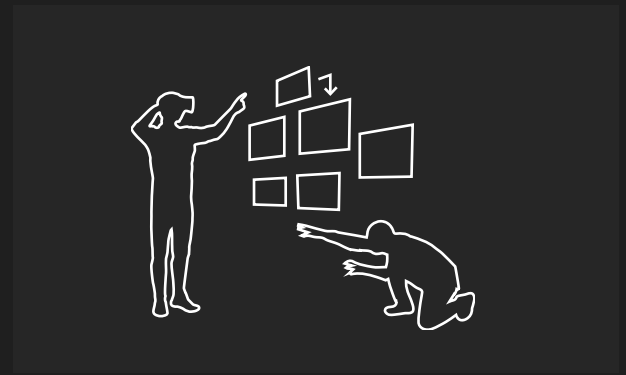
Smartsuit Pro

A personal motion
capture system

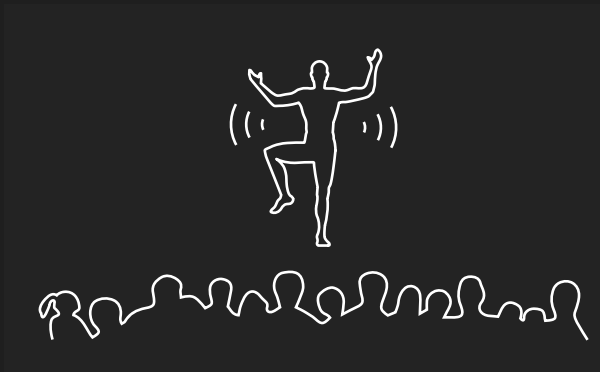
Chapter 1 - Getting started

Introduction

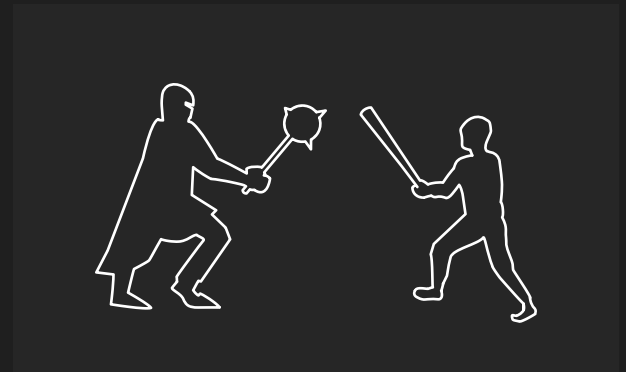
Thank you for purchasing a Rokoko Smartsuit Pro(tm), an inertial motion capture system. Smartsuit Pro is created for the following usage scenarios



Pre-visualization



Live interactions



Animation production

Smartsuit Pro overview

The Smartsuit Pro comes with IMU sensors embedded in textile tunnels in a full-body suit made out of a high performance and durable nylon based fabric to provide flexibility and durability.

What's included



Sensors

x 19

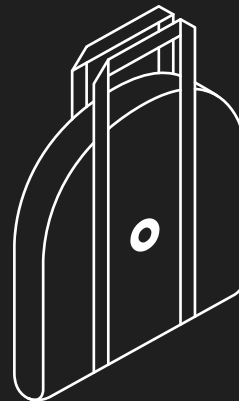


Cables

x 19



Hub



Suit cover



Textile suit

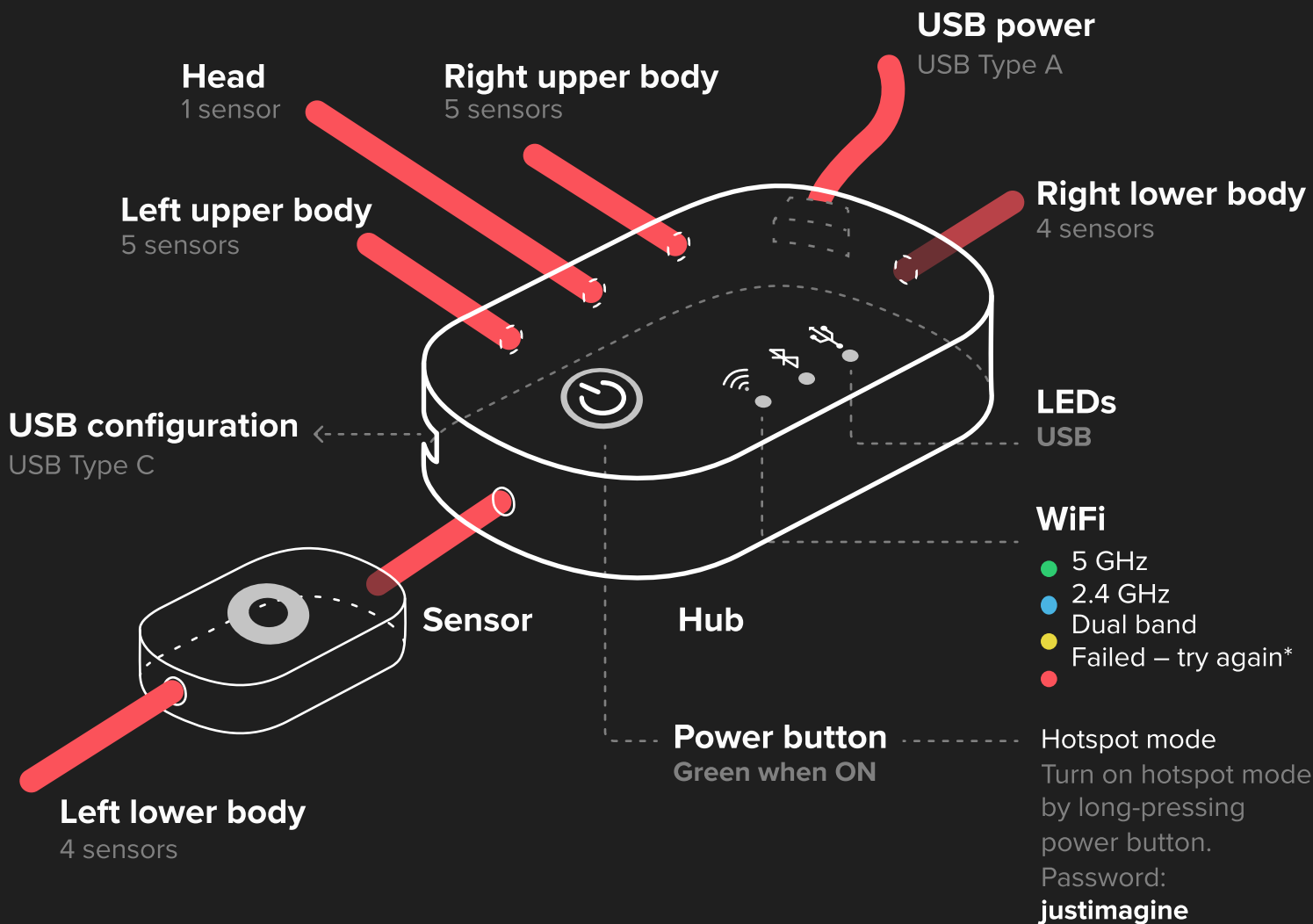
Sizes: S, M, L and XL

Also included with the Smartsuit Pro: USB-C connector cable.

Not included: USB battery and router.

See textile size guide here (www.rokoko.com/en/shop).

Hub overview and interface

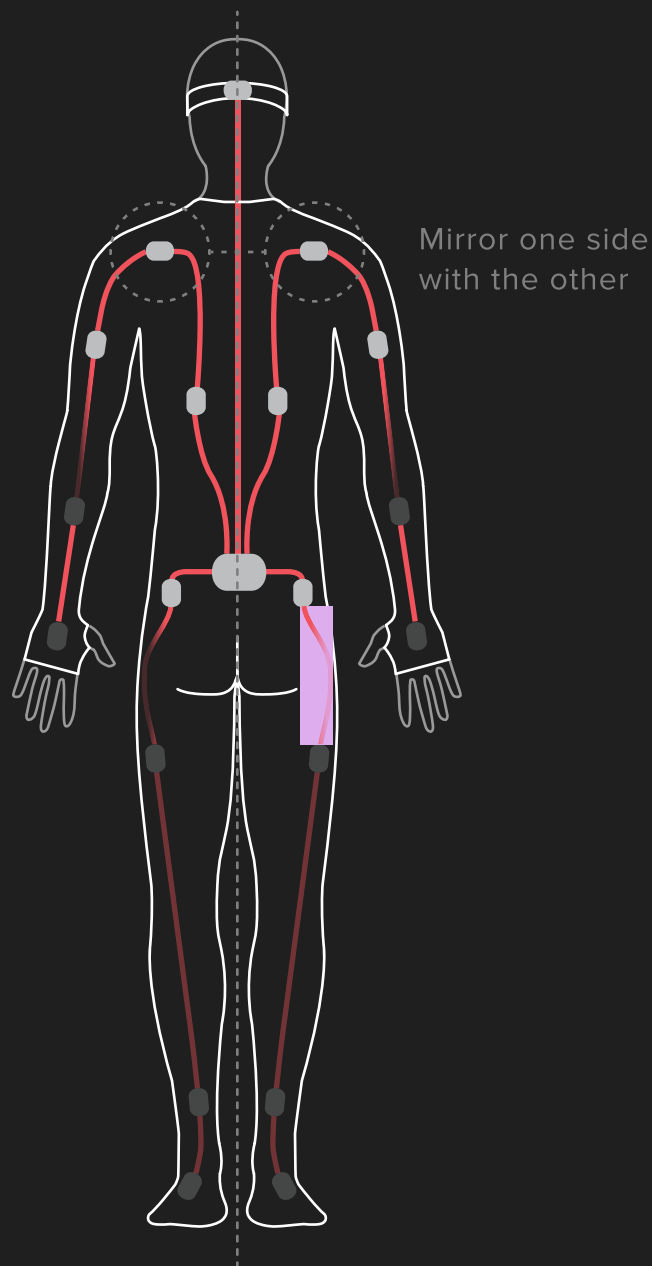
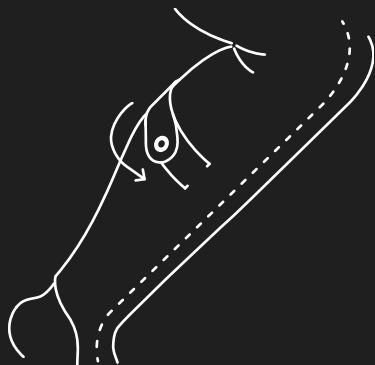


Sensor placement

Each sensor in the suit covers a body part. Please ensure that all the sensors are placed correctly on the velcro patches inside the tunnels before use. All sensors should be symmetrically placed if you mirror the right and left sides of the body.

Straps

When putting on the Smartsuit Pro, make sure all the sensors are placed correctly and that the straps are tightened with the elastic straps placed on the outside of the textile suit.



Sensor placement

2D approximate graphic representation

Chapter 2 - Hardware setup

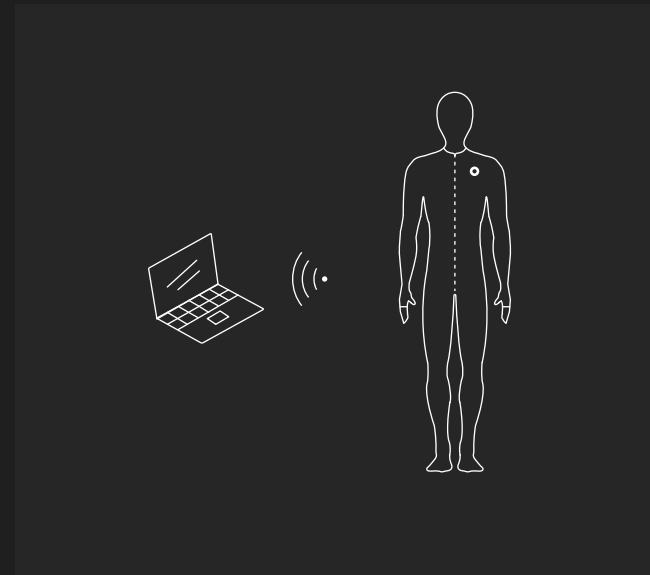
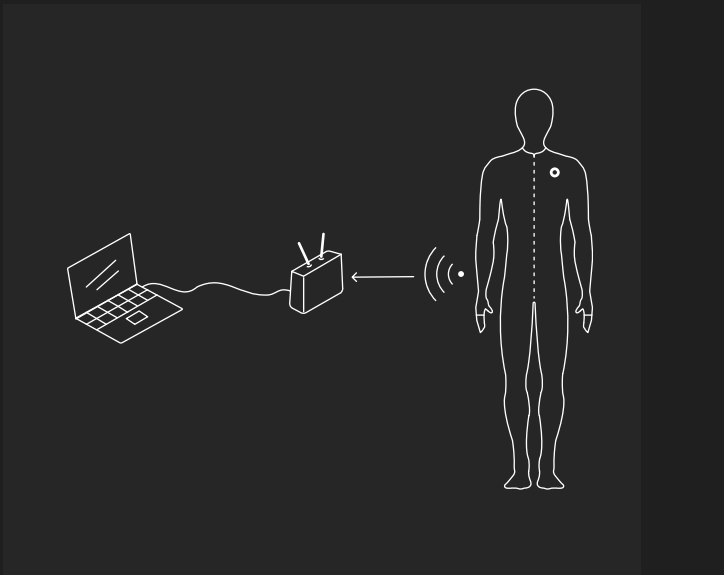
Regardless of the usage scenario, you need to power the Smartsuit Pro via an external powerbank with a USB type A connector and min. 2A output. See our recommended powerbanks here (help.rokoko.com).

Router setup

To ensure decent range and stability, we recommend using a dedicated router (5,0 or 2,4 Ghz bands). When connecting multiple Smartsuit Pros on the same network (up to 5 simultaneous supported), we advise connecting to a 5,0 Ghz dedicated network.

Hotspot setup

By pressing the power button for 2 seconds you'll activate the WiFi hotspot mode and the Smartsuit Pro will create a hotspot for direct connection to your computer.



Router setup

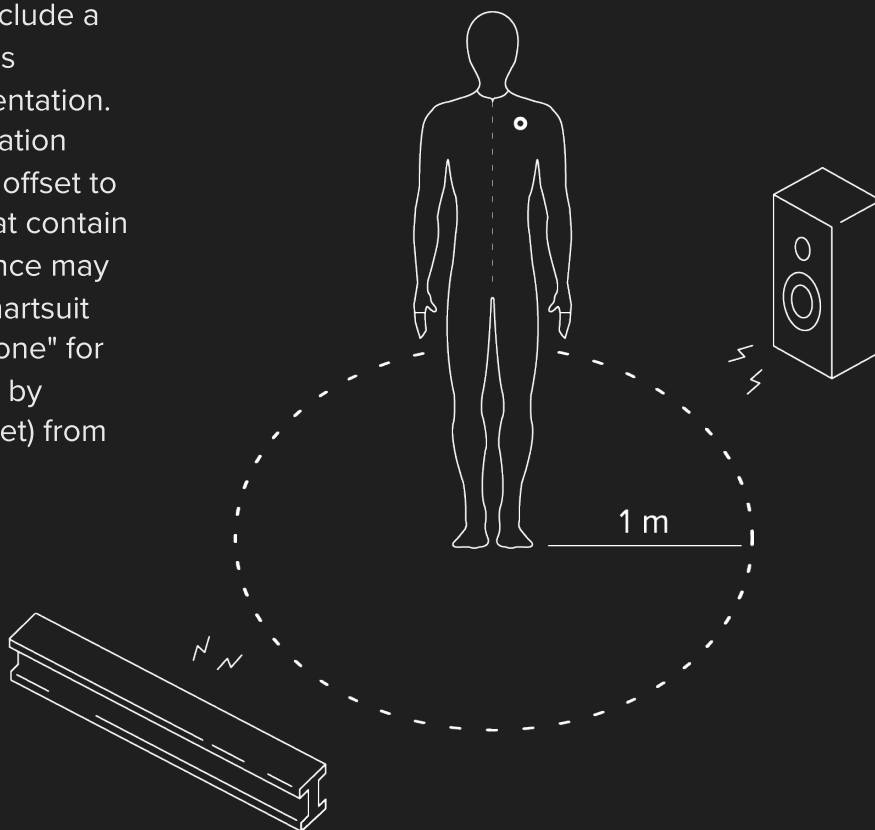
- Up to 100 meters of wireless range
- Up to 5 Smartsuit Pros

Hotspot setup

- Up to 10 meters of wireless range
- One Smartsuit Pro

Magnetic safe zone

The Smartsuit Pro's inertial sensors include a magnetometer that measures the earth's magnetic field to calculate sensor orientation. This orientation, defined during calibration ("straight pose"), will provide an initial offset to the Smartsuit Pro. In environments that contain large iron objects, magnetic interference may affect the tracking accuracy of the Smartsuit Pro. Please create a magnetic "safe zone" for all your motion capture performances by staying away for at least 1 meter (3.4 feet) from large iron objects, such as steel bars, loudspeakers or a car.



Sensor color feedback

Safe zone from magnetic interfering objects,

Color	Explanation
●	Doing good!
●	Sensing magnetic interference
●	Turned off
○	I need a location!

Recommended system requirements for Rokoko Studio

PC

OS

- Windows 10 (64-bit)

Recommended hardware

- Processor: Intel i5 3GHz
- Memory: 8GB
- Graphics card: NVIDIA GTX 980

MAC

OS

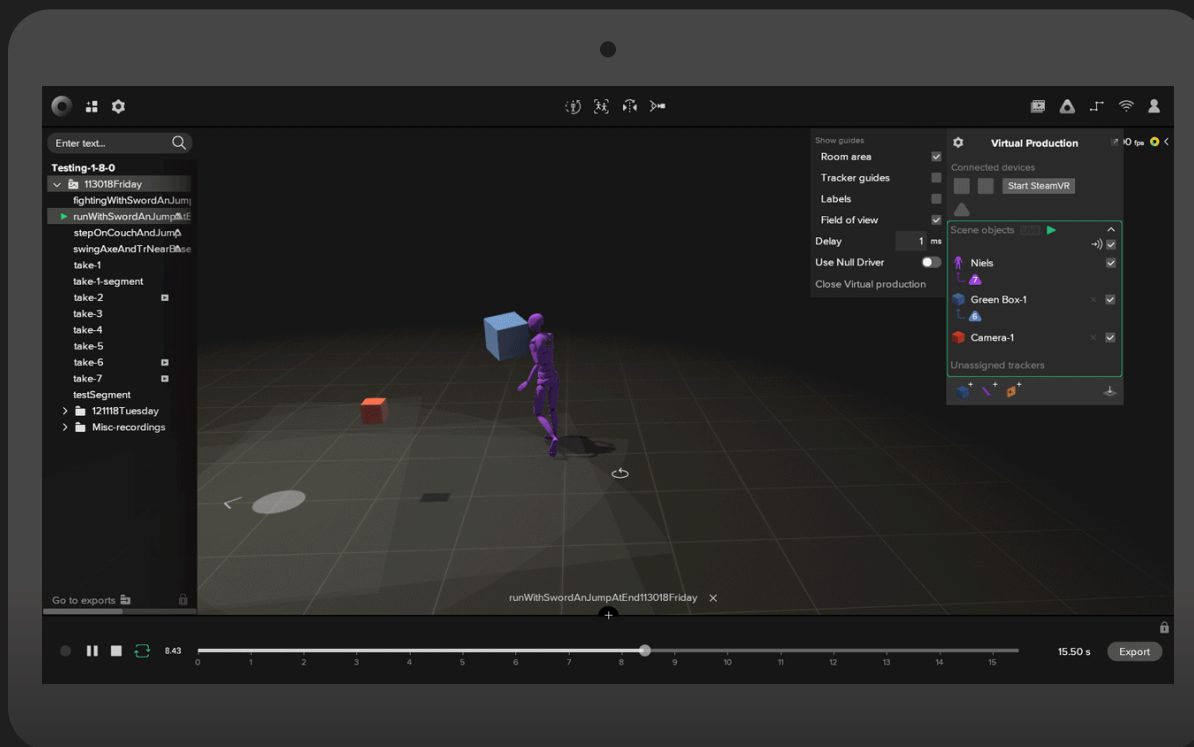
- macOS Mojave 10.14.2+

Recommended hardware

- Processor: 2,9 GHz Intel Core i5
- Memory: 8GB 2400MHz DDR4
- Graphics: Radeon Pro 555 2048MB

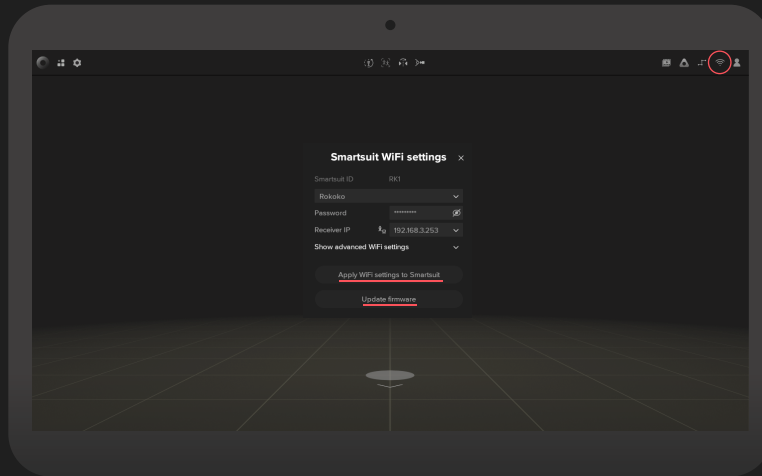
Chapter 3 - Setup via Rokoko Studio

Rokoko Studio is the software that enables you to configure your Smartsuit Pro. With Studio you can visualize, record, forward and export Smartsuit Pro data. You can download and install Studio for free here www.rokoko.com/en/downloads.



Rokoko Studio v 1.10

Configure WiFi settings and update firmware

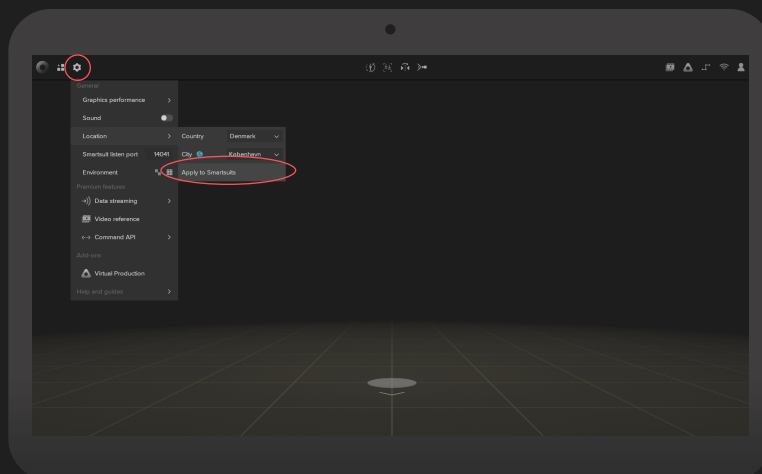


1. Connect Smartsuit Pro to a computer via the USB cable
2. Open the Smartsuit WiFi settings panel
3. Search and select WiFi
4. Input password
5. Select receiver IP
6. Apply new WiFi settings to Smartsuit Pro.
7. Disconnect the USB cable between the computer and Smartsuit Pro, and then the WiFi LED on the hub should turn green or blue (5 GHz, 2.4 GHz)

You update firmware by clicking “Update firmware” in the WiFi settings panel.

When using the Smartsuit Pro's WiFi hotspot mode instead of a dedicated router network, please long-press the hub power button to enable it. Password: justimagine

Set location settings



1. Open the settings panel
2. Select location
3. Select your Country and City from the list
4. Apply to Smartsuit Pro

Chapter 4 - Start using Smartsuit Pro

Once the Smartsuit Pro is configured with the correct location and WiFi settings, connect your USB battery to the power cable: a neutral avatar will appear in your Studio project scene after a few seconds. You can now put on your Smartsuit Pro.

NB: You are welcome to wear clothing both under and on top of the suit (as long as they do not contain metal, like a knight's armor).



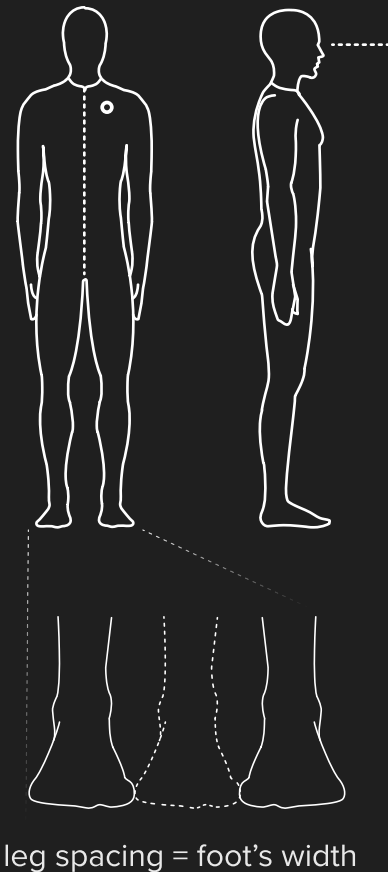
Calibration of Smartsuit Pro



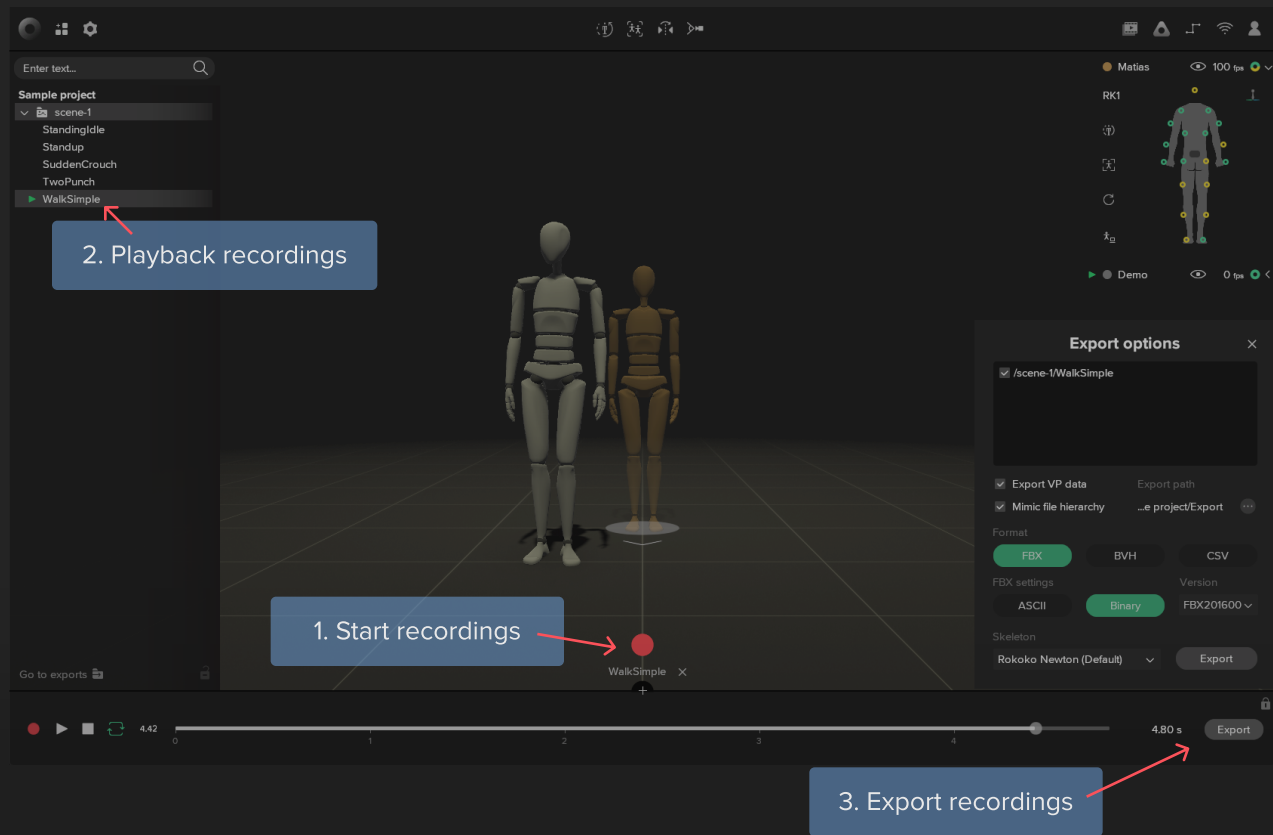
1. Click the Straight pose icon in the top bar
2. Stand like illustrated on the neutral character and described below.
3. Wait 4 sec until the countdown and process is complete.
4. Now you are ready to use the Smartsuit Pro

It is important you initialize correctly as described in the following steps when doing the straight pose:

- Keep your feet parallel with one foot's width between them
- Stand upright with a straight back
- Thumbs and nose pointing forward
- Arms down your side point straight towards the floor



Working with the Smartsuit Pro in Rokoko Studio



Forward data to third-party applications

1. Select settings icon in top left corner
2. Select forward data
3. Enable data forward
4. Input the IP's and port numbers you want to forward the data to.

NB Please ensure you have our plugins installed, download and install them here: rokoko.com/en/downloads

Chapter 5 - Help and support

Help and support, including FAQs and troubleshooting will be provided via the following channels:

Live chat

Live chat is also available at www.rokoko.com by selecting the chat icon in the bottom right.

Support and help desk

help.rokoko.com

E-mail support

support@rokoko.com

Any other inquiries can be addressed at hi@rokoko.com

www.rokoko.com

www.rokoko.com