



Infinite Motion x Innovation

MOXI S100

User Manual



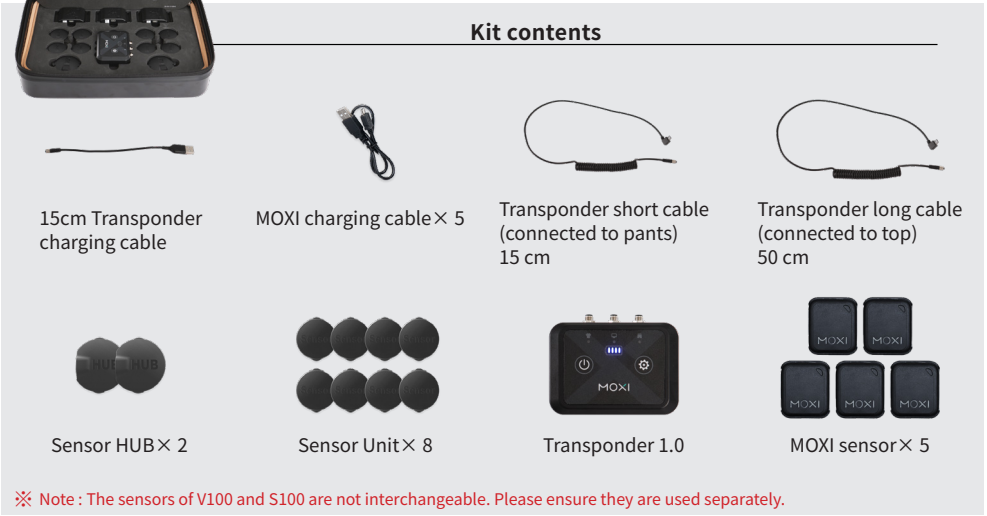
From Animation to
Virtual Interaction

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01
MOXI S100
Product Overview

Thank you for purchasing the MOXI S100 Motion Capture Suit.
Please read this instruction manual carefully to ensure proper wearing and operation of the suit.
If you have any questions or need further assistance, please refer to the contact information at the end of this manual or visit the official MOXI website for more details. [Click here](#)



02

Motion capture suit dressing instructions

- ※
1. The suit comes with sensors and wires already installed. This instruction is for your reference.
 2. If you need to wash the suit, please ensure that the wires are completely removed from the clothing. Here is a YouTube instructional video on how to install and remove the wires :

[Watch Here](#)



2-1 Sensor HUB installation method

The S100 sensor HUB must be installed on the sensor frame. When installing, ensure the "HUB" label is facing forward. Gently press the HUB sensor into the interface to secure it.



2-3 Installation method of sensor frame

When attaching the sensor frame to the top and pants, ensure the HUB sensor is facing outward, with the word "HUB" positioned outward. The sensor should fit securely in the Velcro area at the top of the back of the garment and at the waistband of the pants.



2-2 Sensor installation method

The S100 sensor must be installed onto the sensor frame. Ensure that the word "Sensor" is facing forward during installation. Gently press the sensor into the interface to secure it.



2-3 Installation method of sensor frame

After completing the HUB installation, the sensors are sequentially passed on the sensor frame through the designated openings in the clothing and pants. Securely attach the sensors to the Velcro areas on both the arms and legs to ensure stable installation and a comfortable fit.

2-4 Top (Connection Method for Cable and IMU Sensor)

1. Connect the top IMU HUB first, then route the cable through the inside of the top.



2. Follow the red arrows to guide the cable through the dedicated fixed inner pocket.



3. The inside of the top's pocket has two openings (top and bottom); according to the arrow indicators, the top opening is the designated pass-through for the jacket cable.



2-5 Bottom (Connection Method for Cable and IMU Sensor)

1. Connect the cable to the IMU HUB, then route the cable through the upper opening.



2. The inner lining of the pants has two buttons for securing the cable. After pulling the cable through, make sure to fasten the buttons firmly to keep it in place.



03

Explanation of the Transponder Button Functions / LED Display Description



04

Connect the wires to the Transponder

Connect the sensor cables of the top and pants to the Transponder carefully, and refer to the icons to ensure the connection is correct.



05

Install TransEZ APP(iOS/Android)

In order to set up the transponder, you must install the [TransEZ APP](#) to your smartphone. Please scan the QR code to download it.



iOS



Android

06

Transponder Pairing and TransEZ App Setup Guide

※ Here is an instructional video that shows how to set up the transponder with the TransEZ app, step by step : [Watch Here](#)

※ After the first time initial setup, the transponder will connect automatically in future uses. There's no need to open the TransEZ App—just turn on the transponder and wait a few seconds until the middle indicator light steady.

Make sure to use the same router and wear the wireless sensors in the same positions as during the first setup.

6-1 Transponder Initial Setup



6-1-1 Tap the Power ON/OFF button

Power ON : Short press for 1 second to power on.

※ Note :To Power off-Press and hold until the indicator light turn off.



6-1-2 Step 2 : Wait for Flashing to Turns Off

After powering ON, the WiFi pairing button will flash, indicating that the Transponder is turned on. Please wait until the indicator light turns off before proceeding to the next step.



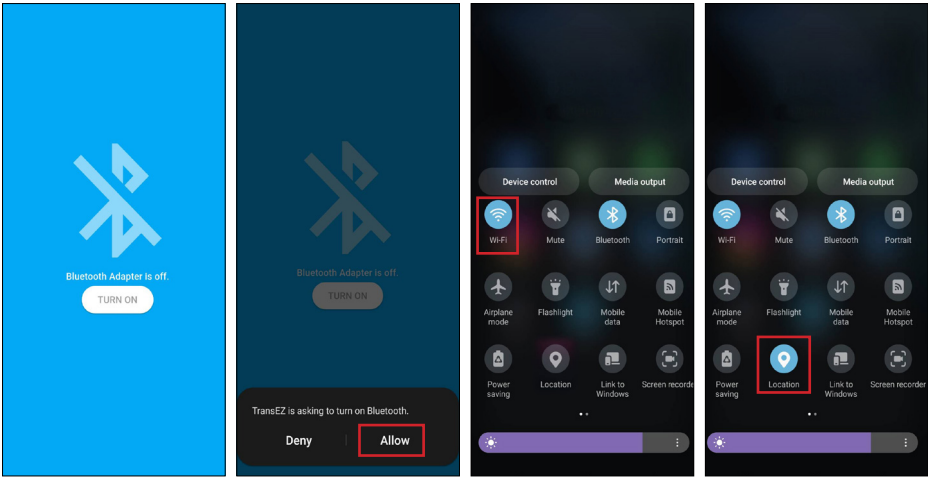
6-1-3 Transponder Pairing Search

Press and hold the **setting button** for around 6 seconds until the middle light indicator starts flashing, then release it to start searching for the Transponder and WiFi.

6-2 TransEZ APP settings

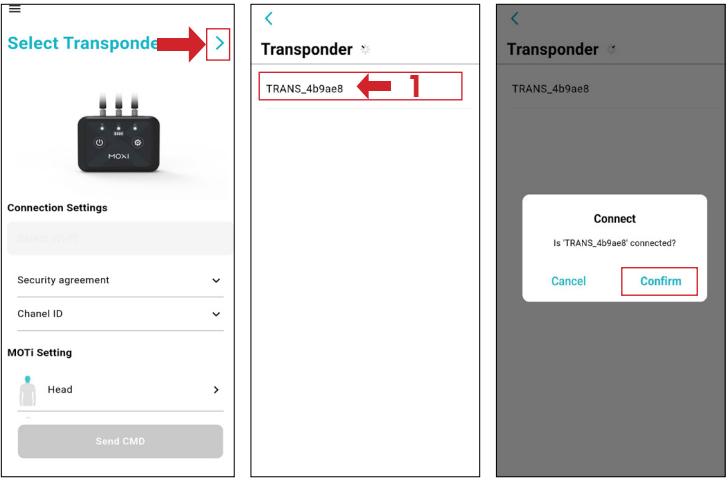
6-2-1 TransEZ Initial Setup

Open transEZ App



※ Please enable Bluetooth, Wi-Fi, and GPS location on your phone; otherwise, the Transponder cannot be detected or connected properly.

6-2-2 Pair the Transponder

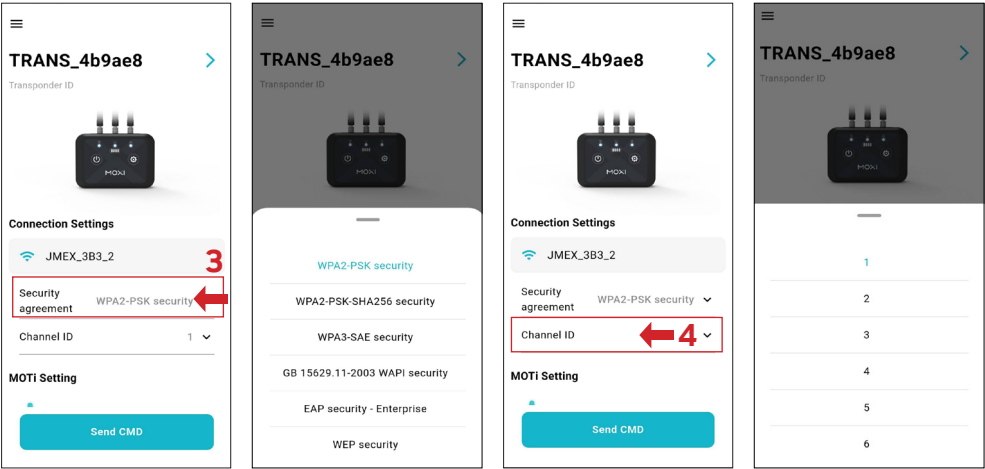
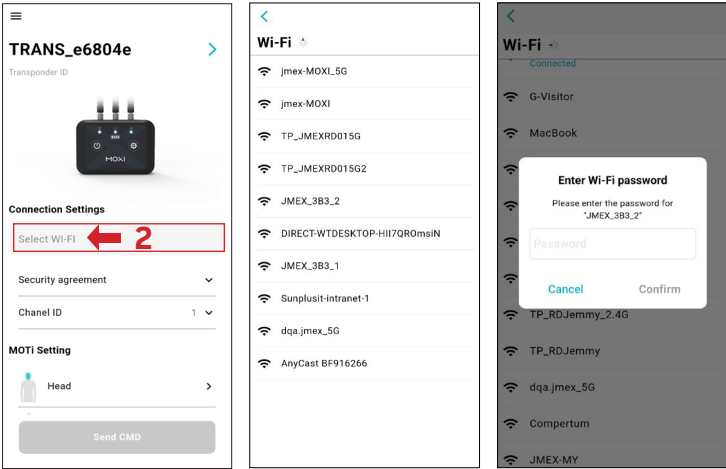


Click "Select Transponder" to begin searching for and pairing with the Transponder.

※ Ensure that the Transponder is powered on and in pairing mode (Wi-Fi indicator flashing continuously). The search process may take 1 to 30 seconds, so please be patient. Please refer to section 6-1-3 for more details.

※ If the Transponder does not appear in the search after an extended period, power it off and restart the setup process. Please refer to section 6-1 for instructions.

6-2-3 Connection settings



Click "Select Wi-Fi" and then choose the Wi-Fi network you want to connect to from the list. If there is no specific Wi-Fi security protocol, please select "WPA2-PSK security", the default Channel ID is 1.

※ When multiple MOXI devices are connected to the same Wi-Fi, please assign device IDs in sequence. For example: Device A selects ID1, and Device B selects ID2. The Wi-Fi connection settings are now complete.

07

Wireless MOXI Sensors

7-1 Introduction to Wireless MOXI Sensors



● Power on/off button

Long Press :

Hold the button until the **White light** turns on to power on/off the MOXI.

※ If MOXI sensor takes more than 10 minutes without use, it will automatically shut down to save power.

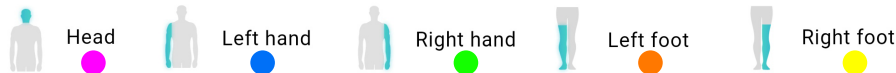
※ In this case, simply turn the MOXI sensor back on by pressing the ON/OFF button. The White light will start flashing again.



MOXI sensor serial number

Label serial number when pairing with the Transponder.

Body Part Indicator Light Description



Connection Status : **White light** blinks three times

Connected : Corresponding body part light stays on

Disconnected(not connected to the Transponder) : **White light** stays on

(not connected to computer, but still connected to the Transponder) : body part light stays on

In Motion : Body part light blinks (once every 3 seconds)

Low Battery (20%) : **Red light** keeps blinking

Low Battery (5%) : Device shuts down

Charging : **Red light** stays on

Fully Charged : **White light** stays on

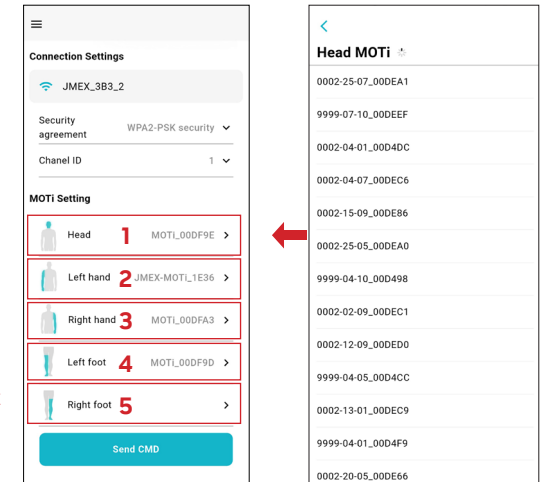
7-2 TransEZ - Wireless MOXI Sensors Settings

1. Please turn on each wireless MOXI sensor that you want to connect.

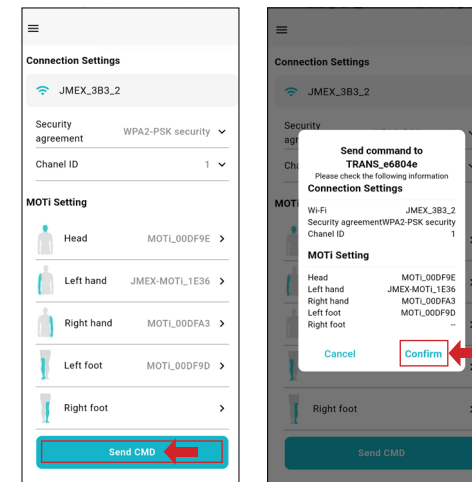
2. Click "Select MOXI" for the corresponding body part and choose the specific serial number to be used for that part. Repeat this step for all the wireless MOXI sensors.

※ Each Wireless MOXI sensor has a unique serial number.

Select any MOXI sensor during setup, but make sure the selected sensor's serial number matches the original choice and is worn on the correct body part.



7-3 Complete the connection



Once the settings are complete, click "Send Command." If the Transponder is successfully connected, **it will automatically power off.**

※ Ensure to **manually turn on the Transponder** by pressing the power button again. If the connection is successful, all three indicator lights will stay on.

※ After setting up the transponder with the TransEZ app, keep the app running in the background (don't force close it). Closing it will cause the wireless sensors to disconnect.



08

Complete Setup: Store the Transponder and Wear the Wireless MOXI Sensors

8-1 Secure the Transponder Inside the Pocket



After the connection is completed, please place the Transponder firmly in the zipper pocket on the back right side of your jacket.

※ Ensure that the connection cable is connected from the inside of the clothes to the Transponder.

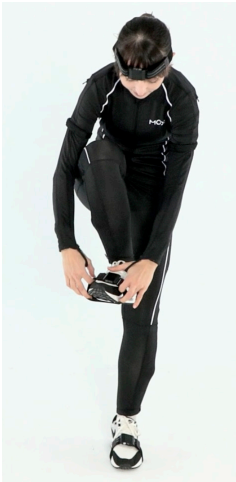
※ Avoid jamming the transponder and zipper to ensure safe and stable use.

※ Make sure all three indicators are showing a steady light.

8-2 Place the Wireless MOXI Sensors on designated body parts



The long strap is mounted on the head.



The two short straps are fastened on each foot and hands.



09

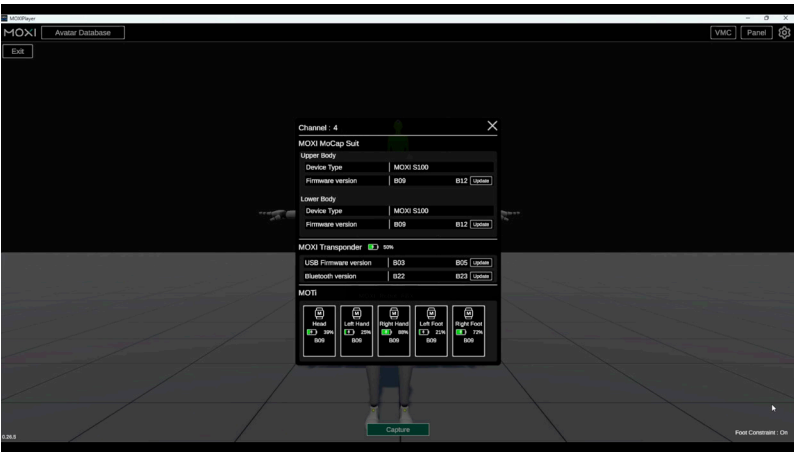
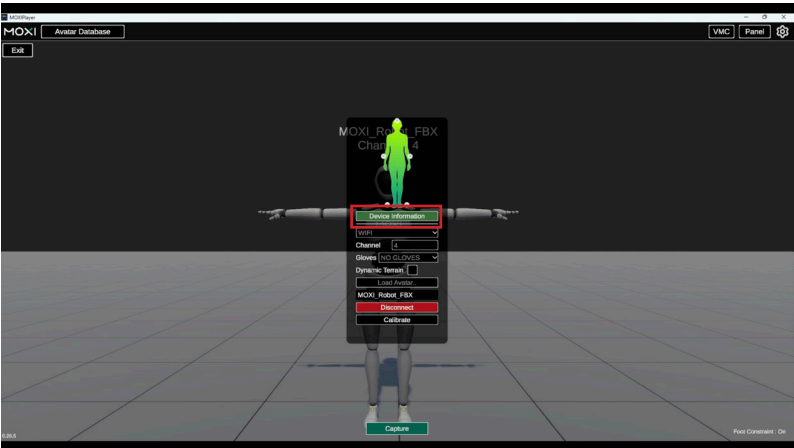
Update Suit Components

For best performance, we recommend updating the MOXI MoCap Suit software before starting your first session.

9-1 Update Suit Components

Press “Device information” in the software to review all component firmware versions:

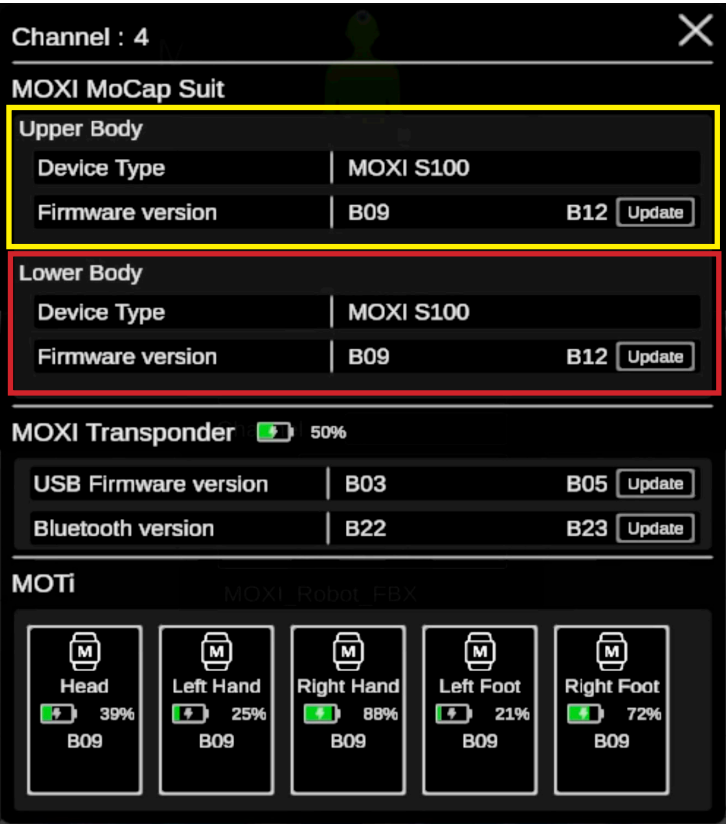
- 2 × Sensor Hubs
- Transponder (BT firmware + USB firmware)
- 5 × Wireless Sensors



9-2 Sensor Hubs Firmware Update

If a new firmware version is available, an “Update” icon will appear next to the current firmware version. For your reference:

- The Upper Body Hub is marked in yellow
- The Lower Body Hub is marked in red



1. To start updating the Upper Body Hub firmware:
 - Click the “Update” icon next to the current firmware version.
 - Connect the **hub directly to your PC using the Micro USB → Type-A cable.**
 - Follow the on-screen instructions to complete the update.
2. After successfully updating the Upper Body Hub, repeat the same process for the Lower Body Hub.

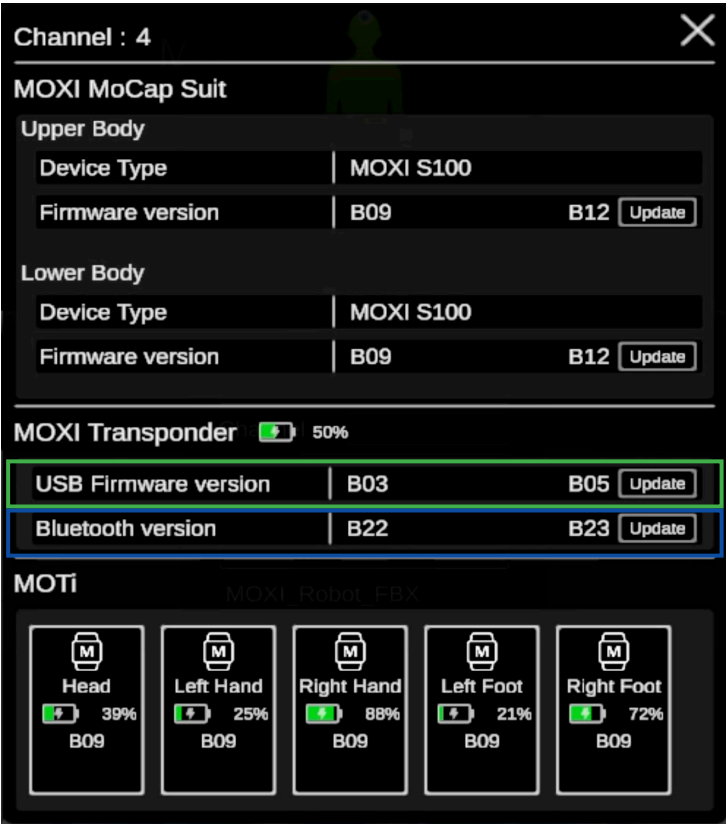
For detailed guidance, watch this instructional video: [Click Here](#)

9-3 Transponder Firmware Updates

The transponder firmware needs to be updated in two steps:

- Through the [TransEZ app](#) using [Bluetooth](#).
- Through the [MOXI Player software](#) using a [USB cable](#).

➔ **MOXI Player - Device** will show exactly which part needs updating each time. See the picture below for reference.



9-4 Transponder Firmware Update - Through TransEZ

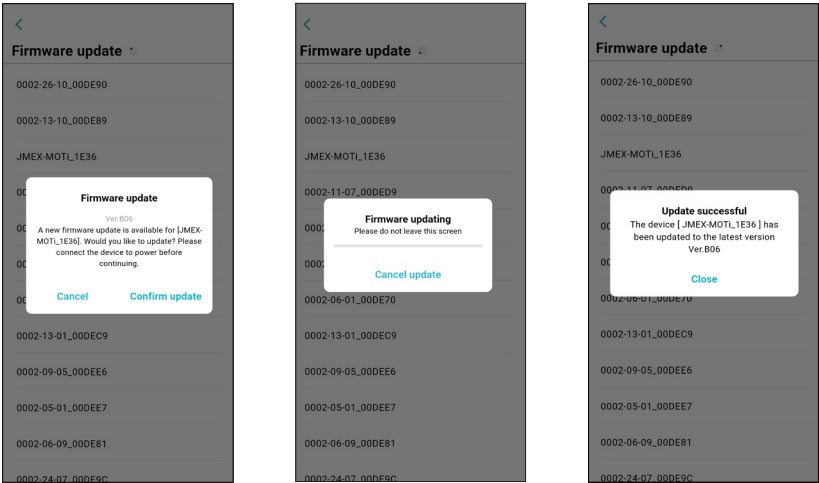
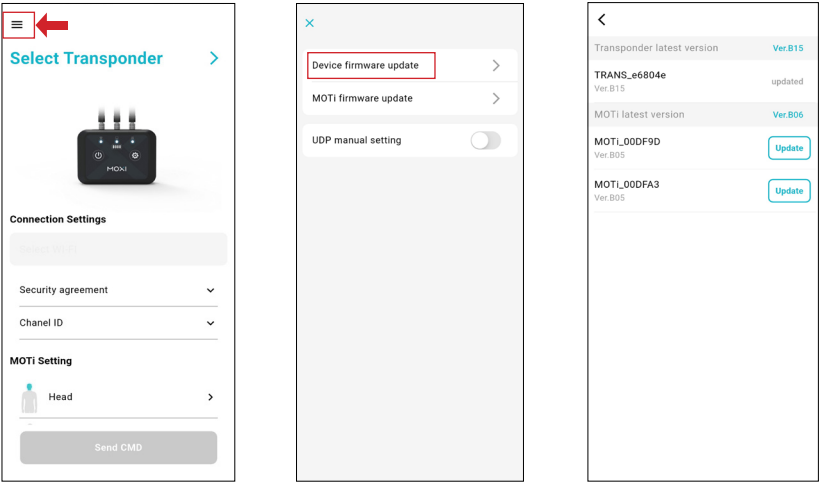
Before checking for updates, please ensure that the Transponder is **powered ON**, please follow the steps below.

※ Make sure the **Transponder is in search mode**. Please long-press the Settings button until the middle indicator light starts **blinking**.

9-5 Transponder : View Firmware Version/Update

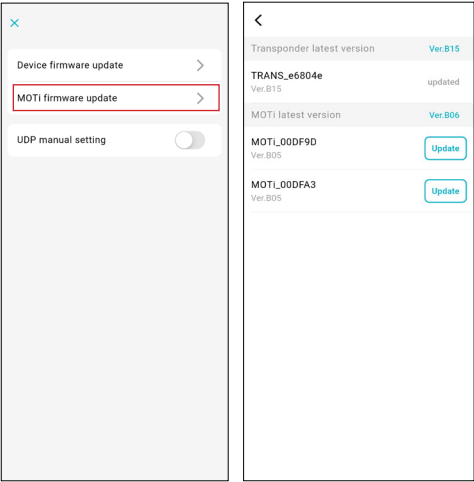
Click the menu in the top left corner to proceed with the update inside the TransEZ App.

Once you reach the device firmware update page, click the Transponder to initiate the update.
※ During the Transponder firmware update, ensure that you do not turn ON or OFF the transponder. Once the upgrade is complete, the indicator lights will turn off. You can then turn it on and begin using it.



9-6 Wireless MOXI Sensors: View Firmware Version/Update

After accessing the MOXI firmware update page, choose the MOXI Sensor to start the update.



※ Make sure the MOXI sensor is plugged into a power source (such as a PC, power bank, etc.) to successfully update the MOTi firmware. Otherwise, the update will fail.

※ Here is an instructional video that shows how to update MOXI Firmware : [Watch Here](#)

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Appendix

1. Suit Washing Guide

- ➡ Before washing, please ensure to remove the 8 sensor units and 2 sensor hubs.
- ➡ Machine washing is not advised! Instead, we suggest gently wiping the surface with a soft cloth slightly moistened with alcohol-wipe or another mild cleaning solution.

2. Others

- ➡ After installing the MOXI Software, Windows Firewall may **block or limit the software's access**, which can cause connection failures with the suit. It is highly recommended to verify that Windows Defender Firewall allows MOXI to communicate both privately and publicly.

Follow these steps:

1. In the Windows search bar, type **"Windows Defender Firewall"** and open it.
2. Click Change settings.
3. Locate MOXI Software and ensure both Private and Public check boxes are selected.
4. Click OK to save the changes.

For detailed guidance, please watch the instructional video: [Click Here](#)


Product Ordering and After-Sales Policy

- All products are official company items and come with a quality assurance guarantee.
- The appreciation period is not a trial period. If you wish to return the product during this period, it must remain in brand-new, unopened condition. Returns due to personal preferences or unmet expectations after unsealing or usage will not be accepted.
- Returns or exchanges after unsealing are only accepted in special circumstances, such as visible product defects or functional issues.
- To prevent transaction disputes, please record an unboxing video as proof. If you request a return due to stains, scratches, or similar issues, please provide photos and videos of the unboxing for evaluation by our company.
- Before washing, please remove all sensors and sensor frame sets from the motion capture suit. The wire skeleton string and sensors are electronic components and should not be washed. The wire skeleton string assembly is not covered under warranty if it is accidentally submerged or exposed to water.





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