

## 1.4 Wearing Instructions

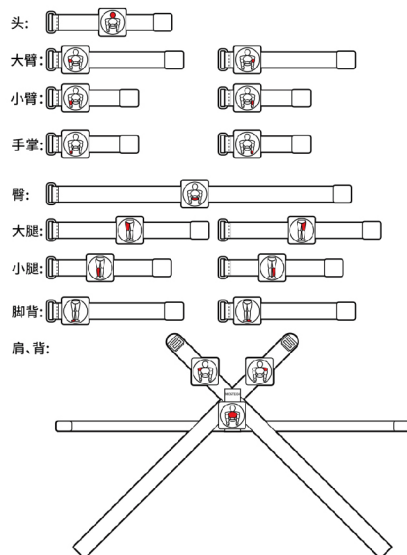
### 1.4.1 Motion Capture Suit

- **Sensor Attachment Method:** Sensors are secured to the straps using hook-and-loop fasteners.



### • Strap-Type Motion Capture Suit

Each strap is designed with a specific length according to different body segments. Please follow the markings on the straps and attach them to the corresponding body parts accordingly.



### 1.4.2 Sensor Placement

#### • Upper Body

Head Sensor: Attach to the center of the back of the head.

Shoulder Sensors: Attach to the top of the shoulders, positioned slightly toward the outer side.

Hip Sensor: Attach to the center of the lower back, as close as possible to the tailbone. When wearing this sensor, ensure that the charging port faces upward and that the sensor fits tightly against the body.

Upper Arm Sensors: Attach to the outer side of the mid upper arm.

Forearm Sensors: Attach to the outer side of the mid forearm.

Hand Sensors: Attach to the back of the hand.

#### • Lower Body

Thigh Sensors: Attach to the middle of the thighs on the outer side, approximately 2–3 cm (0.8-1.2in) above the knee.

Shank Sensors: Attach to the middle of the calves on the outer side, approximately 2-3 cm (0.8-1.2in) below the knee.

Foot Sensors: Attach to the top of the feet. Ensure that the straps wrap securely around the instep to prevent accidental detachment during walking or movement.

#### \*Precautions:

- Ensure all straps are securely fastened and closely fitted to the body to prevent excessive sensor movement during large or rapid motions.
- Before operation, the performer must ensure that no electronic devices (such as mobile phones or smartwatches) or magnetic objects (such as keys or coins) are present on the body, as they may cause significant magnetic interference.
- The HZ sensors are equipped with magnetometers, which are sensitive to strong magnetic fields. Always operate the system in an environment with minimal magnetic interference.
- The hip sensor must be positioned at the center of the lower back, as close as possible to the tailbone. When wearing this sensor, ensure that the charging port faces upward and that the sensor fits tightly against the body.

## 二、Quick Start

### 2.1 Hardware Connection and Activation

- Connect the data transceiver to the computer using a USB cable (a Type-C adapter may be used if needed).
- Insert and remove the Type-C cable from the charging case.
- When the indicator lights on the sensors inside the case start flashing, the sensors have been successfully activated.

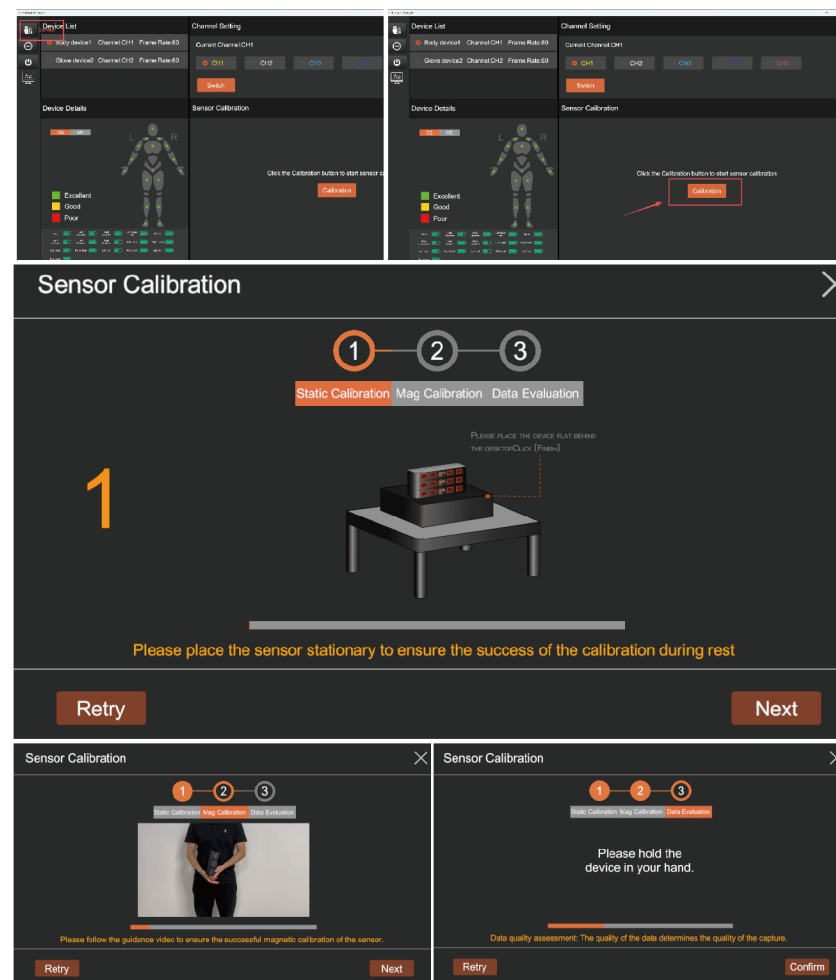
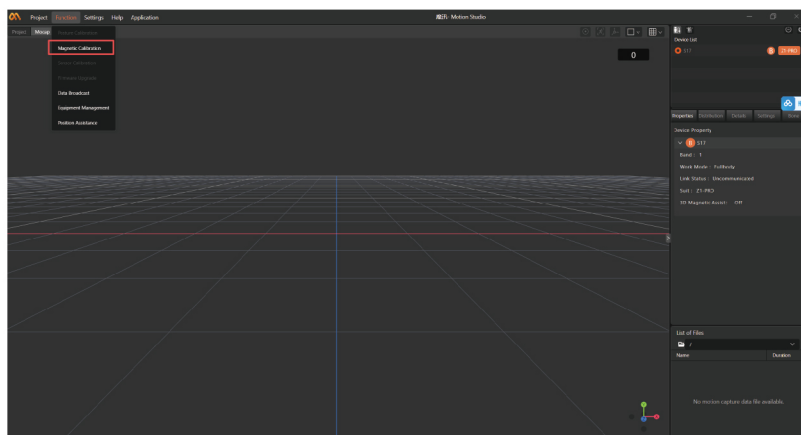


### 2.2 Sensor Calibration

- Launch the magnetic calibration software HardwareManager.
- Click the [Connect] button to connect the device.
- Click the [Calibrate] button to perform the magnetic calibration process.

**Note: Please remove all metal accessories from your hands before calibration.**

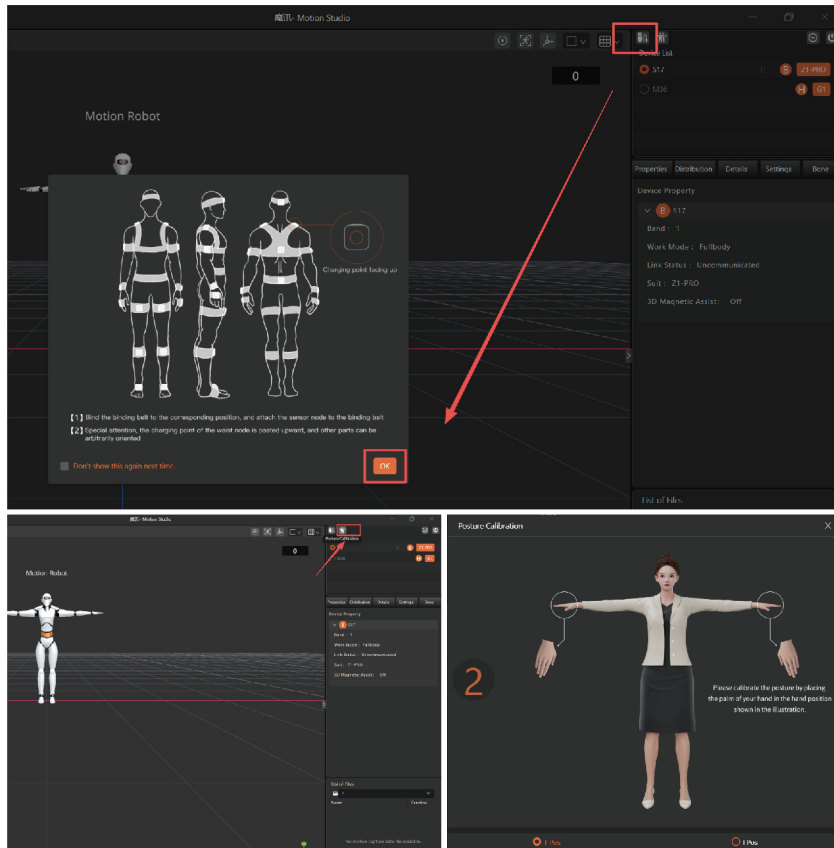
- After the calibration is completed, close the software.



## 2.3 Device Connection and Pose Calibration

- Open Motion Studio and create a new project or load an existing one.
- Insert the data transceiver into the computer. The device name will appear in the Device List.
- Click the **[Connect]** button to connect the sensors. During the connection process, keep all sensors stationary.
- Check the **Sensor Distribution** panel. When all sensor indicators are illuminated, the sensors have been successfully connected.
- After wearing all devices correctly, follow the on-screen instructions to complete the T-Pose, I-Pose, and OK-Pose calibrations.

**\*Note:** Keep both feet together and aligned during pose calibration.



## 2.4 Start Motion Capture

- After completing pose calibration, click the **[Record]** button to start motion capture. Recorded files will be automatically displayed in the file list.
- Right-click a file to play back or export the data.
- To stream data to third-party software, click **[BVH Data Broadcasting]** at the upper left corner of the interface. Offline data broadcasting is also supported when no hardware device is connected.

## 三、Operation Instructions

Before using the system for the first time, ensure the following items are ready: Sensors (fully charged); Data Receiver; Motion Studio; Magnetic calibration software.

### 3.1 Connecting to the Receiver



### 3.2 Sensor Power-on and Activation

Insert and remove the Type-C cable from the charging case. When the indicator lights on the sensors begin flashing, the sensors have been successfully activated.



### 3.3 Sensor Calibration

- Open Motion Studio and select **Magnetic Calibration** to enter the calibration interface from function menu.
- Click the **[Connect]** button to connect the device.
- After the connection is completed, click the **[Calibrate]** button to perform the magnetic calibration procedure.

**\*Note:** Do not wear any metal accessories (e.g., rings, bracelets) during calibration, as they may interfere with the magnetic field and affect calibration accuracy.

