

# Bio-Arm 8000 Quick Start Guide

## 1. Core Safety Precautions

- **Safe Distance:** Never place hands or any objects within the arm's working range during operation.
- **Power Down:** Always turn off and unplug the device before cleaning or maintenance.
- **Authorized Use:** To be operated by trained personnel only.

## 2. Main Components

- **Robotic Arm:** Executes all movements.
- **Precision Gripper:** Grasps and releases PCR tubes (single or 8-tube strips).
- **Base & Control Panel:** The stable foundation and touchscreen interface for operation.
- **Platform:** The designated drop-off area directly in front of the arm.

## 3. Quick Start

1. **Placement:** Position the arm on a stable, level surface.
2. **Power On:** Connect the power cord and turn on the main switch at the back of the base.
3. **Calibration:** On first use or after moving the unit, follow the on-screen prompts to complete the **Auto-Calibration**. Ensure the working area is clear during this process.

## 4. Basic Operation: Move an 8-Tube Strip to the Platform

### 1. Preparation:

- Place the tube rack containing the 8-tube strip or PCR tube at its designated start position.
- Ensure the arm's platform is clean and clear.

### 2. Set target location:

- On the control panel, tap **[Set Target Location]**.
- Move the arm to position the gripper over the platform, then confirm the location.

### 3. Run:

- Confirm that the setup is correct, then press the **[START]** button on the screen.
- The arm will automatically pick up, transfer, and place the tube strip.

## 5. Basic Operation: Open/Close Priming-Port/SpotON port

There are two types of ports that can be operated by the Bio-Arm 8000.

1. **Priming-Port:** The Priming-Port is used to load buffer into the flow cell of a nanopore minion sequencer.
2. **SpotON:** The SpotON is used to load samples into the flow cell of a nanopore minion sequencer.

The Bio-Arm 8000 can be used to open and close the Priming-Port and SpotON of nanopore minion sequencer.

### 1. Preparation:

- Place the nanopore minion sequencer on a stable surface within the arm's reach.
- Ensure the arm's platform is clean and clear.

### 2. Start to open/close port:

- On the control panel, tap **[Open/Close Port]**.
- Select either **Priming-Port** or **SpotON**.

### 3. Run:

- Confirm that the setup is correct, then press the **[START]** button on the screen.
- The arm will automatically open or close the selected port.