

PAPRITECH

AirMotion Pro User Manual

Wireless MIDI Breath and Motion Controller

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1. Introduction

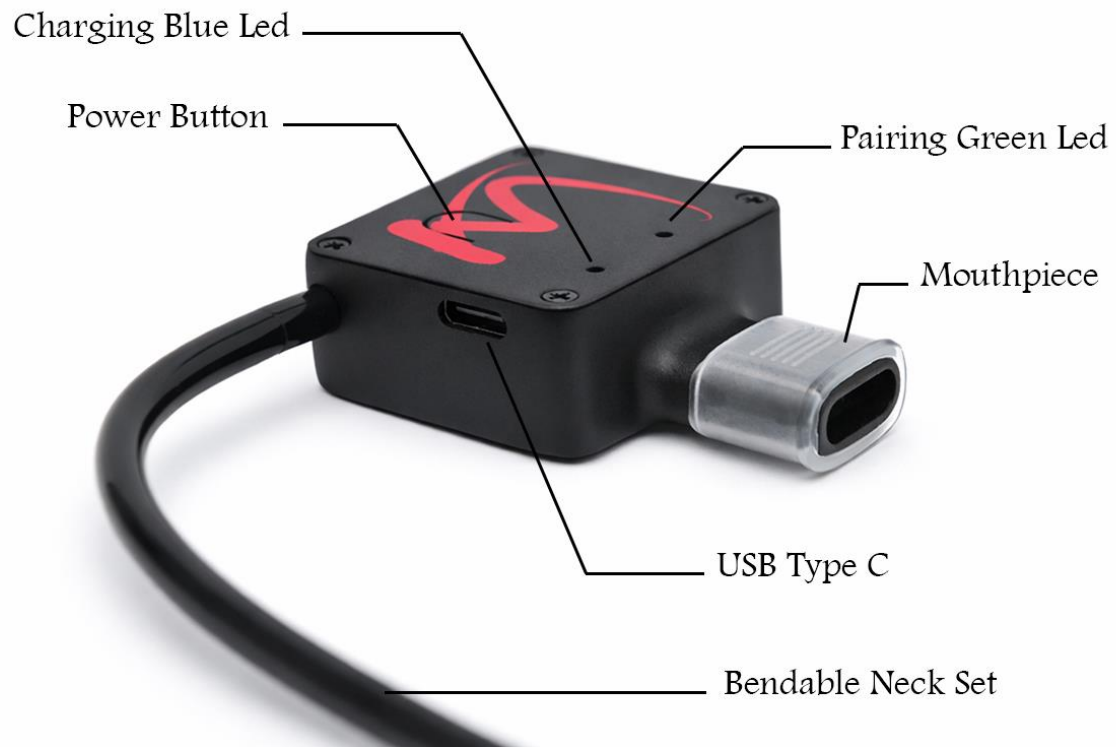
Thank you for choosing **AirMotion Pro**, the world's first wireless MIDI breath and motion controller designed to deliver natural, expressive control for musicians, producers, and performers.

AirMotion Pro converts **breath pressure** and **head motion** into MIDI data, allowing hands-free control of dynamics, filters, modulation, expression, and pitch bend—without interrupting your playing.

This manual walks you through everything: from unboxing and first power-on to advanced calibration, DAW integration, and firmware updates.



2. Device Overview & Hardware Diagram



3. Package Contents

Inside the EVA case:

- AirMotion Pro device
 - Mouthpiece
 - BLE USB Dongle
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4. Safety & General Usage

- Do not expose the device to water or high humidity
 - Use only standard USB chargers (5V)
 - Do not open or modify the device
 - Avoid impacts, bending, or excessive force
 - Always ensure sufficient battery before firmware updates
-

5. Getting Started – Out of the Box

5.1 Charging the Device

Before first use, fully charge your AirMotion Pro.

Steps:

1. Connect the supplied **USB Type-C cable** to AirMotion Pro
2. Plug the other end into a **standard USB charger**, computer USB port, or power bank

Charging LED behavior:

- **Blue LED ON** → Charging in progress
- **Blue LED OFF** → Fully charged

Charging time: ~ 2 hours

Battery life: ~ 6 hours of continuous use

 Important: Never start a firmware update with low battery.

5.2 Powering ON / OFF the Device

AirMotion Pro is available in **two hardware models**.

Model A – Rear ON/OFF Switch (Mechanical)

- Located on the **back of the device**

- Works like a classic power switch

Power ON: - Push the switch to ON

Power OFF: - Push the switch to OFF

- **Green LED blinking** → Device powered ON and ready to pair
 - **Green LED OFF** → Device successfully paired
-

Model B – Front Power Button (Press & Hold)

- Located on the **front of the device**

Power ON: - Press and hold the button for **2–3 seconds**

Power OFF: - Press and hold the same button for **2–3 seconds**

LED indicators (both models):

- **Green LED blinking** → Device powered ON and ready to pair
 - **Green LED OFF** → Device successfully paired
-

6. Mechanical Airflow Adjuster

AirMotion Pro includes a **mechanical airflow adjuster** that allows you to physically control how much air reaches the breath sensor. This provides a hardware-level way to adjust resistance before any software calibration.

What the Airflow Adjuster Does

- Changes the **resistance and sensitivity** of the breath input mechanically
- Helps prevent fatigue and ensures comfortable performance

How to Use the Airflow Adjuster

Slider More Open (More Airflow)

- More air passes through
- Requires **stronger breath** to reach maximum MIDI output
- Ideal for:
 - Wind instrument players
 - Strong breath technique
 - Live performance

- Wide expressive dynamics

Slider More Closed (Less Airflow)

- Less air passes through
- Requires **lighter breath** to reach maximum MIDI output
- Ideal for:
 - Soft breath technique
 - Long studio sessions
 - Precise expression

Best Practice

1. Start with the slider in a **middle position**
2. Adjust physically until breath pressure feels natural
3. Fine-tune response using software curves and sensitivity sliders in the app

Tip: Always adjust the **mechanical airflow first**, then use software curves for precision.

7. Installing the AirMotion Mobile App

The AirMotion mobile app is required for configuration, calibration, presets, and firmware updates.

- **Android:** Google Play Store
- **iOS:** Apple App Store

Search for “**AirMotion**”, install, and launch the app.

8. App Onboarding & Permissions (Very Important)

When launching the app for the first time:

1. You will see **4 onboarding screens** explaining AirMotion basics
2. After onboarding, the app will request system permissions

Required Permissions

- **Location permission** (Android requirement for BLE scanning)
- **Nearby Devices / Bluetooth permission** (Android & iOS)

These permissions are **mandatory for Bluetooth Low Energy (BLE) communication**.

⚠ If these permissions are denied, **AirMotion Pro will NOT connect**.

Once permissions are granted, the app automatically opens the **Connectivity Page**.

9. Connectivity – Connecting AirMotion Pro

AirMotion Pro offers **3 connection modes** depending on your workflow.

9.1 Mode 1 – BLE USB Dongle (Recommended)

Best for: - Live performance - Studio sessions - Maximum stability and lowest latency

Advantages: - Independent from computer/tablet BLE hardware - Faster and more stable MIDI data transmission

Steps:

1. Plug the **BLE Dongle** into your computer
2. Power ON AirMotion Pro
3. Open the AirMotion app
4. Go to **Connectivity Page**
5. Press on **“Connect”**
6. Open the **MIDI Page**
7. Assign MIDI Channel and CCs

Confirmation: - MIDI values appear on the **dongle screen**, confirming successful setup

9.2 Mode 2 – Built-in BLE (Without Dongle)

Recommended for: - iPad / iPhone / Android tablets - Mobile producers - macOS & Windows users who prefer direct BLE

Steps:

1. Power ON AirMotion Pro
2. Open the AirMotion app
3. Go to **Connectivity Page**
4. Press on **“Connect”**
5. Wait for successful connection

Then: - Navigate to the **MIDI Page** - Assign MIDI Channel and CCs

9.3 Mode 3 – USB MIDI (Wired Mode)

This mode allows you to use AirMotion Pro as a **USB MIDI device** without Bluetooth.

Recommended for:

- Studio setups
- Users who prefer a wired connection

Steps:

1. Connect AirMotion Pro to your **computer or instrument** using a **USB Type-C cable**
2. Power ON the device
3. Launch your DAW or instrument software
4. Open the MIDI settings in your DAW
5. Select **AirMotion Pro** as a **MIDI Input device**

No driver or additional software is required.


Once connected, AirMotion Pro will appear automatically and can be used like any standard MIDI controller.

10. MIDI Page – Configuration & Presets

10.1 MIDI Channel & CC Assignment

From the MIDI Page:

- Select a **MIDI Channel**
- Assign **MIDI CC numbers** for:
 - Breath sensor
 - Tilt (Up / Down head motion)
 - Roll (Left / Right head motion)

 **Critical:** MIDI Channel and CC numbers **must match** your DAW or VST settings.

Example: - If your VST expects **Expression = CC11**, AirMotion must also send **CC11** - If CC or channel does not match, no expression will be heard

10.2 Pitch Bend Control via Head Motion

AirMotion Pro can control **Pitch Bend** using head motion.

Steps:

1. Go to the **MIDI Page**
2. Enable **Pitch Bend Mode**

This allows realistic bends similar to wind instruments, strings, or guitar.

10.3 Preset Management

Presets store **all MIDI, breath, and motion settings**.

Why presets are useful: - One preset per DAW - One preset per VST or instrument - Quick switching during sessions or live performance

Saving a preset:

1. Configure MIDI and sensor settings
 2. Tap **Save Preset**
 3. Name your preset
-

11. Settings Page – Calibration & Expression

11.1 Breath Sensor Settings

- **Sensitivity:**
 - Higher value → more resistance → stronger airflow needed
 - Lower value → more responsive → lighter breath
 - **Breath Style:** Soft / Medium / Hard
 - **Offset:** Sets the breath starting threshold
-

11.2 Curve Styles – How to Choose the Right One

Curve styles define how physical input is translated into MIDI output.

- **Linear:**
 - 1:1 response
 - Best for beginners and predictable control
- **Exponential:**

- Soft response at start, strong at end
 - Ideal for crescendos and filter sweeps
 - **Logarithmic:**
 - Strong response early
 - Great for fast attacks and expressive phrasing
 - **Inverse:**
 - Reversed response behavior
 - Creative and experimental use
 - **Sigmoid:**
 - Smooth S-curve
 - Very natural and musical feeling
 - **Piecewise:**
 - Different response zones
 - Precise control in specific ranges
 - **Cubic:**
 - Smooth but expressive
 - Works well for lead instruments
 - **Power:**
 - Adjustable intensity curve
 - Advanced expression shaping
 - **Quadratic:**
 - Gentle curve
 - Smooth transitions
 - **Hyperbolic:**
 - Extreme response near limits
 - Sound design and special effects
-

11.3 Motion Sensor Calibration

Center Calibration

1. Hold your head in a **comfortable neutral position**
2. Tap **Calibrate Center**

This position becomes the **zero reference** for all head movements.

Example: - When your head is at this position, AirMotion sends MIDI value 0 (or center) - Any movement left, right, up, or down is calculated relative to this point

Tilt & Roll Range (Important)

- **Higher value:**
 - Requires **larger head movement** to reach maximum MIDI value
 - Example: You must tilt your head close to **90°** to reach max
- **Lower value:**
 - Requires **smaller head movement** to reach maximum MIDI value
 - Example: You reach max at **40–50°**, useful for subtle playing

This allows you to adapt AirMotion to your comfort and playing style.

Dead zone

- Ignores small movements around center
 - Prevents unwanted modulation from micro-movements
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Timeout (Immobility Timer)

- The time after which the MIDI CC output is automatically forced to 0 when no motion is detected
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11.4 Factory Reset

- Restores all parameters to default values
 - Useful if configuration becomes unstable or inconsistent
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12. Connecting AirMotion Pro to DAWs & VSTs

Important Note for macOS & iOS Users

If you plan to use **AirMotion Pro directly via Built-in Bluetooth (BLE)** with a **MacBook, iPad, or iPhone** for music production **without using the USB dongle**, you **must install and use a BLE MIDI connection app**.

- Download **midimittr** from the **App Store**
- Launch the app
- Connect to your AirMotion device

 **Without midimittr app running, AirMotion will not function over Built-in BLE** on macOS or iOS.

 **If you are using the AirMotion USB Dongle**, no additional app is required. The dongle handles the BLE MIDI connection automatically.

12.1 Logic Pro (macOS Example)

1. Connect AirMotion Pro (BLE or Dongle)
 2. Open **Logic Pro**
 3. Go to **Logic Pro > Settings > MIDI > Inputs**
 4. Enable **AirMotion Pro** (or Dongle)
 5. Load a Software Instrument
 6. Ensure the track MIDI Channel matches AirMotion
 7. Map CCs (e.g. CC11 Expression) if required
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12.2 Cubase (macOS / Windows Example)

1. Connect AirMotion Pro
 2. Open **Cubase**
 3. Go to **Studio > Studio Setup > MIDI Port Setup**
 4. Enable AirMotion Pro as MIDI Input
 5. Create an Instrument Track
 6. Match MIDI Channel with AirMotion
 7. Use MIDI Learn or CC mapping inside the VST
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12.3 Other Common Software

AirMotion Pro works with all MIDI-compatible software, including:

- Ableton Live (MIDI Preferences > Track & Remote ON)
 - FL Studio (MIDI Settings > Enable Controller)
 - Pro Tools (Setup > MIDI > Input Devices)
 - MainStage
 - Any VST / AU instrument supporting MIDI CC
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13. Firmware Update

Method 1 – Wi-Fi Update via Mobile App (Recommended)

This method uses your Wi-Fi credentials to temporarily connect the **device or dongle to the internet** so it can download the firmware.

Updating AirMotion Pro:

Steps:

1. Connect to AirMotion Pro from **Connectivity Page**

2. Go to **Info Page > Firmware update**
3. The app checks your current firmware version
4. If outdated, you will be prompted to enter:
 - Wi-Fi SSID (network name)
 - Wi-Fi password
5. The AirMotion device connects to the internet and downloads the firmware
6. Wait until the update finishes
7. **Restart the device** when prompted. To do this, Turn the device off, then turn it on again.

Updating the dongle:

Steps:

1. Connect to the dongle from **Connectivity Page**
 2. Go to **Info Page > Firmware update**
 3. The app checks your current firmware version
 4. If outdated, you will be prompted to enter:
 - a. Wi-Fi SSID (network name)
 - b. Wi-Fi password
 5. The dongle connects to the internet and downloads the firmware
 6. Wait until the update finishes
 7. **Restart the dongle** when prompted. To do this, unplug the USB dongle and plug it back in.
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Method 2 – USB Update via Platform

Visit: **firmware.papritech.com**

Updating AirMotion Pro:

1. Connect AirMotion Pro to your computer **via USB**
2. Launch the firmware update platform
3. Use a tool to **press and hold the update button**



4. While holding the update button, power ON the device
5. Green LED **does NOT blink** → Device is in update mode
6. Release the update button
7. Click **Update Device** on firmware update platform
8. Choose **Update via USB JTAG**
9. Click **Connect** and wait until completion
10. Restart the device

Updating the Dongle:

1. Hold the button on the back of the dongle
2. Plug the dongle into USB while holding
3. Screen remains OFF → Dongle is in update mode
4. Click **Update Dongle** on firmware update platform
5. Choose **Update via USB JTAG**
6. Click **Connect** and wait until completion
7. Restart the device

14. Cleaning & Maintenance

- Use a **soft, dry cloth** for the device body
- Do not use water, alcohol, or solvents

Breath airflow hole: - Ensure the airflow opening is always clean - Do not insert sharp objects - If needed, gently use a soft small brush.

Proper cleaning ensures accurate breath sensing.

15. Warranty

AirMotion Pro comes with a **1-year limited warranty** from the date of purchase.

The warranty covers: - Manufacturing defects - Hardware malfunctions under normal use

The warranty does **not** cover: - Physical damage - Liquid damage - Unauthorized modifications - Improper usage

16. Support & Contact

If you need help or have questions:

- Website: **papritech.com/contact**
 - Email: **contact@papritech.com**
 - WhatsApp: **+44 7466 258715**
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17. Conclusion

Correct calibration, matching MIDI settings, and proper presets will unlock the full expressive power of AirMotion Pro.

Enjoy your music.

— Papritech Team