

## LinknLink eMotion Pro

# LinknLink eMotion Pro Presence Sensor Instruction Manual

Model: eMotion Pro | Brand: LinknLink

## 1. PRODUCT OVERVIEW

The LinknLink eMotion Pro is an advanced 24GHz mmWave radar sensor designed for precise presence detection in smart home environments. It integrates an IR blaster for appliance control and a brightness sensor for ambient light detection. This device offers seamless compatibility with Home Assistant via MQTT, as well as voice control through Alexa and Google Home, without requiring a separate hub.

- **24GHz mmWave Radar:** Utilizes 3rd-Gen mmWave radar technology for highly accurate presence detection, surpassing 2nd-Gen 5.8GHz radar and 1st-Gen PIR sensors.
- **Wide & Barrier-Breaking Detection:** Offers flexible installation with a maximum front-side detection range of 6 meters, capable of sensing presence even through light barriers.
- **IR Control & Brightness Sensor:** Equipped with long-range IR emitters (up to 15 meters) for appliance control and a built-in brightness sensor for automated lighting and climate scenarios.
- **MQTT Home Assistant Integration:** Bridges seamlessly with Home Assistant via Motion2MQTT for advanced automation and control.
- **Alexa & Google Home Compatible:** Supports voice alerts and routine setup through Amazon Alexa and Google Home.
- **App Remote Monitoring:** The LinknLink app provides real-time alerts, detailed history records, and data export, with widget support for Android and iOS.

# Better than PIR Motion Sensor

Accurate Person Presence Sensing  
Even Sitting or Sleeping Still



*Image: The eMotion Pro sensor utilizes 3rd-Gen mmWave radar for accurate presence detection, even when subjects are still.*

## 2. WHAT'S IN THE BOX

The LinknLink eMotion Pro package includes the following items:

- 1 x eMotion Pro Presence Sensor
- 1 x USB Power Cable (Type-C)
- 1 x Foldable Stand with 3M Adhesive
- 1 x User Manual

Please ensure you have a standard USB power adapter (5V, minimum 2A output) as it is not included. Using an adapter with less than 2A may cause the device to malfunction.

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*Video: This video demonstrates the unboxing process and shows the components included with the LinknLink eMotion Pro sensor, along with instructions for fixing the device installations.*

## 3. SETUP AND INSTALLATION

### 3.1 Initial Setup

1. **Power On:** Connect the eMotion Pro to a 5V/2A USB power adapter using the provided USB cable. The LED indicator should flash intermittently (4 flashes, then a brief pause).
2. **App Pairing:** Open the LinknLink app. Tap "Add Device" or the "+" icon. Select "Add a New Device" -> "E-series Hubs & Sensors" -> "Radar Presence Sensor".
3. **Bluetooth & Wi-Fi:** Ensure Bluetooth is enabled on your phone. The app will guide you to connect the sensor to your Wi-Fi network (2.4GHz only).
4. **Device Naming:** Assign a room and a custom name to your device for easy identification.
5. **Firmware Update:** If prompted, update the device firmware to the latest version.



*Image: To reset the eMotion Pro sensor for setup, press and hold the reset button for 5 seconds until the LED flashes.*

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*Video: This video provides a comprehensive guide on pairing the LinknLink eMotion Pro sensor with the app and an overview of its functions.*

### 3.2 Physical Installation

For optimal performance and accurate detection, consider the following installation guidelines:

- Mount the sensor on a wall or position it vertically on a table for a wider detection range.
- Avoid placing it near other electronics or behind metal objects to prevent interference.
- Do not point the sensor directly at mirrors or other smooth surfaces to reduce signal reflection.
- The standard orientation is with the power cable facing downwards, but it can also be installed with the power cable facing upwards.



*Image: The eMotion Pro sensor can be discreetly mounted on a wall, providing wide-range presence detection across the room.*

## 4. OPERATING INSTRUCTIONS

### 4.1 Presence Sensor Configuration

The eMotion Pro allows for detailed configuration of its presence detection capabilities:

1. **Access Presence Settings:** From the app's home screen, tap on the "Presence" sub-device to enter its detailed page.
2. **Motion Status:** View the current presence status, last active/inactive time, and a 2D map displaying live detected subjects and distance ranges.
3. **Detection Zones:** Set up to four independent detection zones. For each zone, you can:
  - Name the zone.
  - Select distance ranges (e.g., 0-2m, 2-3m).
  - Assign a color for visual identification.
  - Configure "Active State Delay" (time before changing from active to inactive) and "Inactive State Delay" (time before changing from inactive to active).
  - Enable push notifications for specific zones and set alert periods.

4. **Global Settings:** Adjust a global active state delay that applies to the entire detection area.
5. **Sensitivity:** Modify the sensor's sensitivity (Low, Normal, High) to reduce false triggers.

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*Video: This video demonstrates how to use the presence sensor features, including setting up detection zones and configuring delays.*

## 4.2 IR Universal Remote Control

The eMotion Pro's IR blaster allows you to control various appliances:

1. **Add Appliance:** From the app's main device page, tap "Add Device" or the "+" icon. Select the appliance type (e.g., TV, Air Conditioner).
2. **Integration Choice:** Choose whether to add the IR device for Home Assistant (HA) or just for the app. Selecting HA makes it accessible in both.
3. **Brand & Model Selection:** Search for your appliance brand and model. If your exact model isn't listed, try other models from the same brand as they may share IR codes.
4. **IR Code Testing:** The app will guide you through testing possible IR options. Tap "Works well" if your appliance responds, or "Doesn't work" to try the next option.
5. **Naming:** Assign a room and rename the IR device as desired.

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*Video: This video demonstrates how to set up and use the IR Universal Remote function to control various appliances.*

## 4.3 Ambient Light Sensor

The built-in ambient light sensor provides real-time brightness data:

- **View Brightness:** Tap on the "Brightness" sub-device from the app's home screen.
- **Lux Value & Graph:** See the current Lux value and a graph showing brightness changes over time.
- **History:** Tap "History" to view past brightness records.
- **Reconfigure Ranges:** Adjust the Lux range for different brightness levels (e.g., Bright, Normal, Dim) to suit your preferences.

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*Video: This video demonstrates how to use the ambient light sensor, including viewing current brightness and historical data.*

## 4.4 Home Assistant (MQTT) Integration

For advanced users, the eMotion Pro supports MQTT integration with Home Assistant:

1. **Prerequisites:** Ensure your eMotion Pro and Home Assistant server are on the same local network.
2. **MQTT Settings:** In the LinknLink app, go to the main device page, tap the three dots icon, and select "MQTT connection".
3. **Configuration:** Enter your Home Assistant server's IP address, the MQTT port (default 1883), and your MQTT broker's username and password. Tap "Save".
4. **Verification:** Check the "MQTT connection status" in the app; it should show "Connected".
5. **Home Assistant Discovery:** In Home Assistant, navigate to "Settings" -> "Devices & Services" -> "Devices". Your eMotion Pro device and its entities (presence, brightness, zones) should appear automatically.

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*Video: This video provides detailed instructions on how to configure MQTT for seamless integration with Home Assistant.*

## 4.5 Alexa & Google Home Integration

Integrate your eMotion Pro with voice assistants for enhanced control:

1. **Rename Sub-functions:** For easier voice commands, rename sub-devices (Presence, Brightness, Zones) in the LinknLink app: Go to main device settings -> "Name Sub-Functions".
2. **Third-Party Service:** In the LinknLink app, go to "Me" -> "Third-Party Service".
3. **Link Account:** Select "Alexa" or "Google Home" and tap "Link Now". You will be redirected to the respective app to enable the LinknLink skill and link your account.
4. **Discover Devices:** Once linked, the voice assistant app will discover your eMotion Pro and its renamed sub-devices.

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*Video: This video demonstrates the process of linking the LinknLink eMotion Pro sensor to Alexa and Google Home for voice control.*

## 4.6 Setting Up Automations (Routines)

Create custom automations to enhance your smart home experience:

1. **Access Routines:** In the LinknLink app, tap the "Routines" tab at the bottom.
2. **Create Routine:** Tap "Create Routine Manually".
3. **Set Trigger (Event):** Tap "When event triggers from" and select a trigger. For example, "Device operated" -> "Presence" -> "Motion Status" -> "Person Detected".
4. **Set Action:** Tap "Do Actions" and select the desired action. For example, "Control certain device" -> "Air Conditioner" -> "Turn On" with specific temperature and mode.
5. **Set Conditions (Optional):** Tap "Under Conditions" to add optional conditions, such as "During specified period" (e.g., only on weekdays).
6. **Save Routine:** Once all settings are configured, tap "Save" to complete the routine.

## 5. DEVICE SETTINGS AND DATA EXPORT

Manage your device and access historical data through the app:

- **Export Data:** For Presence and Brightness sub-devices, tap the three dots icon -> "Export Data". Select a custom time period or quick options (Last Week, Last Month, Last Year). Enter your email address to receive an Excel file with the data.
- **History:** Tap the three dots icon -> "History" to view previous detection or brightness records with detailed timestamps.
- **Device Info:** In the main device settings, you can view device information, firmware version, and update firmware.
- **Lock Device:** The "Lock Device" option (enabled by default for security) prevents other LinknLink accounts on the same local network from discovering the device.

## 6. SPECIFICATIONS

Feature	Detail
Brand	LinknLink
Model	eMotion Pro

Color	White
Power Source	Corded Electric (5 Volts DC, min 2A)
Item Weight	79 Grams (2.79 ounces)
Maximum Range	6 Meters
Mounting Type	Flexible double-joint folding bracket
Product Dimensions	0.98"D x 2.4"W x 2.4"H

## 7. WARRANTY AND SUPPORT

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The LinknLink eMotion Pro comes with a **1 Year Manufacturer Warranty**.

For further support, please visit the [LinknLink Store](#) or refer to the contact information in your user manual.