

FD Master Pro 3.1 User Guide

Product Overview

This product is a high-end health sleep system that integrates adjustable firmness, height and posture adjustment, and innovative water ripple massage. It dynamically optimizes support and massage rhythm, and integrates vital sign monitoring, zoned heating, and sleep report analysis. It aims to optimize your sleep quality through technology, bringing convenience and health to your life.

Core functions: electric adjustment, firmness adjustment, vibration massage, water ripple massage, vital sign monitoring, and heating temperature control.

Smart control: You can control the Mattress through various methods such as remote control, Tuya APP, WeChat mini program and smart speaker.

Safety Precautions

To ensure your safety, please read the following guidelines carefully before use and always adhere to them.

1. Electricity Safety

Power supply check: Before connecting the power supply, please confirm that the voltage meets the product requirements and that the power cord and plug are intact.

Operational restrictions:

- ① The motor should not be operated continuously for more than 10 minutes or for more than 30% of the operating time within a certain period of time to prevent the motor from overheating.
- ② When the headboard or footboard is raised, it is strictly forbidden to sit at the footboard, jump on the Mattress, or engage in strenuous exercise. Do not put all your weight on the raised part.
- ③ During operation of the Mattress, please ensure that there are no people, pets, or other items in the closed area of the Mattress frame and the gaps in the mattress to avoid injury or product damage. In case of any accident, please stop operation immediately.

Remote control usage: When operating the remote control, press the buttons in sequence to avoid pressing multiple buttons at the same time, which may cause damage to the motor due to insufficient response.

2. Personnel and Maintenance Safety

Children and pets: Keep the remote control out of reach of children. Children must use this product under adult supervision.

Cleaning and Maintenance: Always unplug the power cord before cleaning or maintenance. Do not use harsh chemicals (such as gasoline or diesel) to clean the Mattress. General dust can be wiped off with a dry cotton cloth.

Non-professional disassembly: Non-professionals are strictly prohibited from disassembling the structural components, motors, or control boxes of the Mattress to avoid causing irreparable damage.

Installation and initialization

Unpacking Inspection: After opening the package, please first check the product for any bumps or scratches, and check all accessories against the product accessory list to ensure they are complete.

Assembly Requirements: Assembly requires at least two people. Do not pull or drag the Mattress, and avoid using the Mattress legs as a single support point when flipping the Mattress. Please strictly follow the diagrams or instruction videos in the instruction manual for assembly.

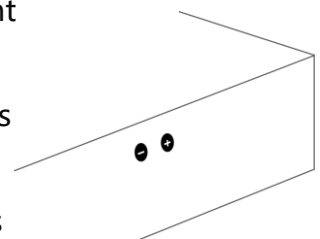
Power Connection and Debugging: After installation, install the control box in the designated location and connect the motor cables and power supply. After powering on, use the remote control to perform a preliminary check to ensure that all functions such as lifting, firmness adjustment, and massage are operating normally.

Button Usage Instructions

After the device is powered on, the buttons next to the Mattress will light up and vibrate, then turn off.

Press and hold the [+] button next to the Mattress to adjust the mattress firmness, release to stop.

Press and hold the [-] button next to the Mattress to adjust the mattress softness, release to stop.



Remote Control User Guide

1. Pairing

Within 5 seconds of powering on the device, press and hold the [Pairing] button for 3-5 seconds to pair. The indicator light will flash and then turn off, indicating successful pairing. After successful pairing, you can use the remote control to adjust the device.

If pairing fails for more than 5 seconds, please restart your device and pair again.

Once paired, you can use the remote control to operate the device.

2. Usage

- **Device Initialization:** After powering on, the device will automatically initialize for approximately 30 seconds to 2 minutes, including electric frame and firmness adjustment airbag initialization. Do not operate the device during initialization.
-  : One-Key Full Reset. Press to stop firmness adjustment, turn off water wave, vibration, heating, and other functions, and reset the Mattress frame, smart wake-up function remains active.
- **Child Lock:** Long-press to lock/unlock the remote control.
- **Firm:** Short press to continue firming up; short press again to stop. Long press to firm up; stop when released. The adjustment stops automatically when adjusted to maximum firmness.
- **Soft:** Short press to continue softening; short press again to stop. Long press to soften; stop when released. The adjustment stops automatically when adjusted to maximum softness.
- **MEM 1 / MEM 2:** Long press to save the current backrest and feet rest positions. Press briefly to activate the saved positions.
-   : Press and hold to adjust the backrest upward or downward until it reaches the highest or flat position.
-   : Press and hold to adjust the feet rest upward or downward until it reaches the highest or flat position.
- **Flat Mode:** Press to reset the electric adjustment to a fully flat state.
- **Zero G /Read /Rise Mode:** Press to activate electric adjustment for "Zero Gravity Mode", "Reading Mode", "Get Up Mode" .
- **Sleep Mode:** Press to activate "Sleep Mode", The full cycle lasts about 15 minutes. If interrupted within the first 4 minutes, the device will initialize for about 30 seconds and return the Mattress to a flat position.
- **Massage:** Press briefly to activate water wave massage (default: 15 minutes, low intensity). Continue pressing briefly to cycle through medium/high/low intensity. The corresponding indicator light will illuminate. Long press to turn off water wave massage. All three indicator lights will flash three times.
- **Lumbar:** Press briefly to activate Lumbar massage (default: 15 minutes, low intensity). Continue pressing briefly to cycle through medium/high/low intensity. The corresponding indicator light will illuminate. Long press to turn off water wave massage. All three indicator lights will flash three times.
- **B Vibrate/F Vibrate:** Press briefly to activate back/Feet vibration massage (default: 15 minutes, low intensity). Continue pressing briefly to cycle through medium/high/low intensity.

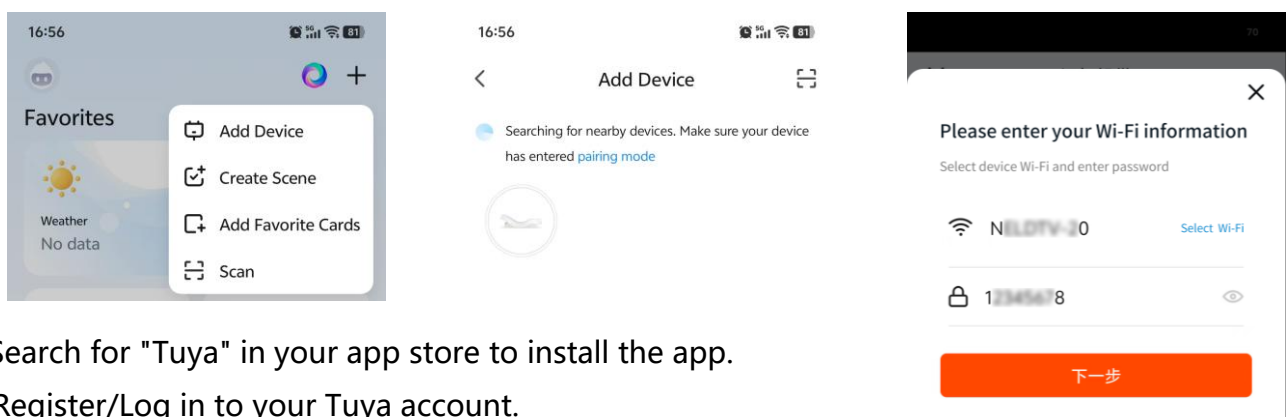


The corresponding indicator light will illuminate. Long press to turn off vibration massage. All three indicator lights will flash three times.

- **Heat:** Press briefly to activate heating (default: 2 hours, low intensity). Continue pressing briefly to cycle through medium/high/low intensity. The corresponding indicator light will illuminate. Long press to turn off heating. All three indicator lights will flash three times.
- **Anti-mite:** Press briefly to activate anti-mite function (30 minutes). Long press to turn off anti-mite. All three indicators will flash three times. Heating and anti-mite functions cannot be used simultaneously. Starting one will automatically turn off the other.

Tuya App User Guide

1. Add Device



- ① Search for "Tuya" in your app store to install the app.
Register/Log in to your Tuya account.
- ② Power on the device. Open the Tuya App, tap the "+" on the home screen to enter "Add Device".
- ③ Tap on the detected "Smart Mattress" to configure Wi-Fi settings. Follow the prompts to select your Wi-Fi network and enter the correct password, Tap "Next".
- ④ Once the device is successfully connected to the network, it will appear in the device list under "Home".

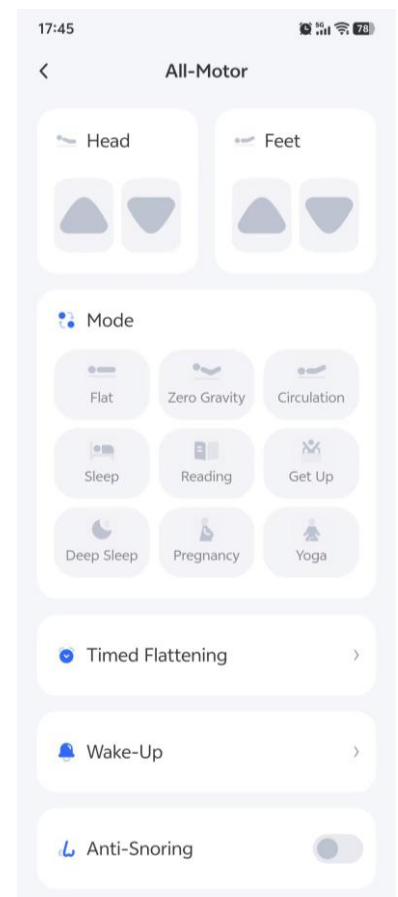
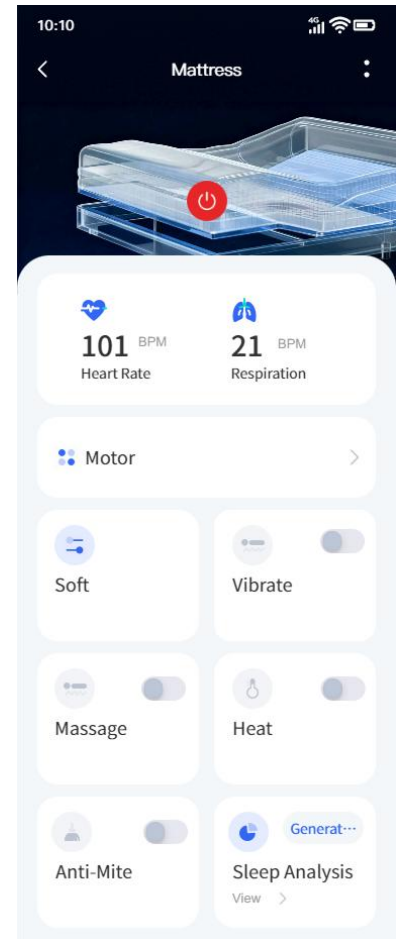
2. Device Control

In the "Home" section, tap "Smart Mattress" to enter the control interface.

- **Device Initialisation:** After powering on, the device automatically initialises for approximately 30 seconds to 2 minutes (including initialisation of the Mattress frame and firmness adjustment airbags). Please do not operate the device during initialisation.
- **One-Touch All Off:** Press to stop firmness adjustment, turn off wave massage, vibration massage, heating, etc., and reset the Mattress frame (Smart Wake-Up function is retained)

- **Real-time Vital Signs:** View real-time heart rate and breathing data, please wait about 8 seconds for data to appear.
- **Motor Adjustment:**
 - ① Back/Leg Rest Adjustment: Press and hold "+" to raise the Mattress frame; press and hold "-" to lower the Mattress frame.
 - ② Mode Switch: Nine preset modes are available. After selecting a mode, the Mattress frame will automatically adjust to the corresponding position.

Note: "One-Touch Flat" adjusts the Mattress to the initial flat position. "Soothing Sleep Mode" lasts about 15 minutes. Please note: if interrupted within the first 4 minutes, the Mattress will initialise for about 30 seconds and return to the flat position.
 - ③ Auto Flatten Timer: When not in the "One-Touch Flat" mode, a timer can be set. The Mattress will automatically return to the flat position at the set time.
 - ④ Smart Wake-Up: At the set wake-up time (can be set for specific days Monday-Sunday), the Mattress executes the "Wake-Up Assist" mode to gently wake the user.
 - ⑤ Smart Snore Reduction: When enabled, the Mattress detects continuous snoring and intelligently adjusts the headrest height to alleviate snoring. After successful reduction, the Mattress frame automatically returns to flat.
- **Soft Adjustment:** Tap to enter the adjustment page.
 - Tap once on "Firmer" or "Softer" to start automatic adjustment; tap again to stop. Press and hold for real-time adjustment, release to stop.
 - Tap "Soft", "Medium", or "Hard" to adjust continuously to the preset firmness level.
- **Vibration Massage:** Turn on vibration massage. Default settings: Position "All", Intensity "Medium", Duration "15 minutes". Tap to enter the next page to switch position, intensity, and duration. Massage stops after the timer ends.



- **Massage:** Turn on massage. Default settings: Mode "M1", Intensity "Medium", Duration "15 minutes". Tap to enter the next page to switch mode, intensity, and duration. Massage stops after the timer ends.
- **Heat :** Turn on heating. Default settings: Intensity "Medium", Duration "2 hours". Tap to enter the next page to switch intensity and duration. Heating stops after the timer ends. Note:
 - Heating and Anti-Allergy modes cannot be active simultaneously. Starting one function will automatically turn off the other.
 - Prolonged heating may cause low-temperature burns. Use with caution.
- **Anti-mite:** When enabled, the Mattress heats for 30 minutes for anti-allergy purposes. Heating and Anti-Allergy modes cannot be active simultaneously. Starting one function will automatically turn off the other.
- **Sleep Analysis:** A sleep report is generated after nightly sleep exceeding 3 hours. The following day, after waking, tap "Generate Report" to upload data from the Mattress to the cloud. Tap the module to view sleep reports. You can switch between daily, weekly, and monthly views, and switch between Mattresss if applicable.

3. Remove The Device

- ① From the Smart Mattress control screen, tap the ":" in the upper right corner to enter Device Details.
- ② Scroll to the bottom of the page and tap "Remove Device".

Note: The first person to bind the device has the highest permissions. Others cannot scan and add the device. The primary user can enter Device Details, tap "Share Device" to share it with other Tuya accounts for adding.

4. Force Remove The Device

If the primary user is unavailable to remove the device, you can use the remote control to force remove the Tuya-device. Follow these steps:

Press and hold  for 3-5 seconds, Immediately after releasing it, press and hold the Flat Button for another 3-5 seconds.

After the device is removed, it will be detectable in the Tuya App under the "Add Device" function.

1. Add Device



- ① WeChat Search for the "国宝智能床垫" mini-program, or scan the mini-program QR code provided.
- ② Enter the mini-program. In the "Control" section, tap "Add Device" to search for nearby Bluetooth devices.
- ③ From the list of detected devices, tap your target device (Please stand near the device to ensure it is detected).
- ④ You will enter the device binding interface. Tap "Add Device" to confirm.

2. Device Control

The control method is the same as that of the Tuya App. Please refer to the Tuya App User Guide in the previous chapter.

Sub-device Management: Manages the Mattress frame host. After connecting, you can view the MAC address and firmware version. When a new firmware version is available, you can tap "Firmware Upgrade" to update.

Note: This device contains two hosts. Version information for the main control host can be seen in the device details. The sub-device host is managed in this section.

3. Remove The Device

- ① From the Smart Mattress control screen, tap the ":" in the upper right corner to enter Device Details.
- ② Scroll to the bottom of the page and tap "Remove Device".

Note: The first person to bind the device has the highest permissions. Others cannot scan and add the device. The primary user can enter Device Details, tap "Share Device" to share it with other Tuya accounts for adding.

Troubleshooting

Fault phenomenon	Possible reasons	Solution
Remote control malfunction	Battery depleted. not paired with Mattress.	Replace the batteries. re-pair the remote control.
The Mattress cannot move.	Power is not connected. power cord is loose.	Check that the power socket and plug are properly plugged in. Check the connections between the power cord and the control box and wall socket.
Tuya app cannot scan the device	Device is already bound to another account	Press and hold  on the remote control for 3-5 seconds, Immediately after releasing it, press and hold the Flat Button for 3-5 seconds to perform forced device removal.
Tuya app cannot connect the Device	Weak Wi-Fi signal. network configuration failed.	Bring your phone close to the smart Mattress. Reconfigure the network after resetting the device
There are abnormal noises during operation.	There is a foreign object stuck between the Mattress board and the frame.	Stop operation immediately, check and remove any obstructions (such as sheets, wires, etc.).
Functional abnormality	Control box program error	Try disconnecting the power, waiting one minute, and then reconnecting the power to restart.

After-sales service and warranty

Warranty Policy: This product is covered by a warranty from the date of purchase . Please refer to your warranty card or consult customer service for the specific warranty period. Please note that the following situations are generally not covered under warranty:

- ①Unauthorized opening or alteration of the control box, motor, or remote control.
- ②Damage caused by human error or failure to use as instructed.
- ③Use in abnormal environments (such as extreme humidity or high temperature).

Service Support: If the problem persists after self-checking, or if the product requires repair, please contact our after-sales service. Please provide the product model and purchase date so we can provide you with faster service.

Friendly reminder: The contents of this manual will be updated with product firmware upgrades. Please refer to the latest version of the manual or the instructions within the app for your purchased product. Enjoy using our product!

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.