MODEL: 02

HAND CONTROLLER

USER MANUAL

Smart control.
Elevate your workspace.



Thank you for choosing our product.
Please read this manual carefully before use and keep it for future reference.

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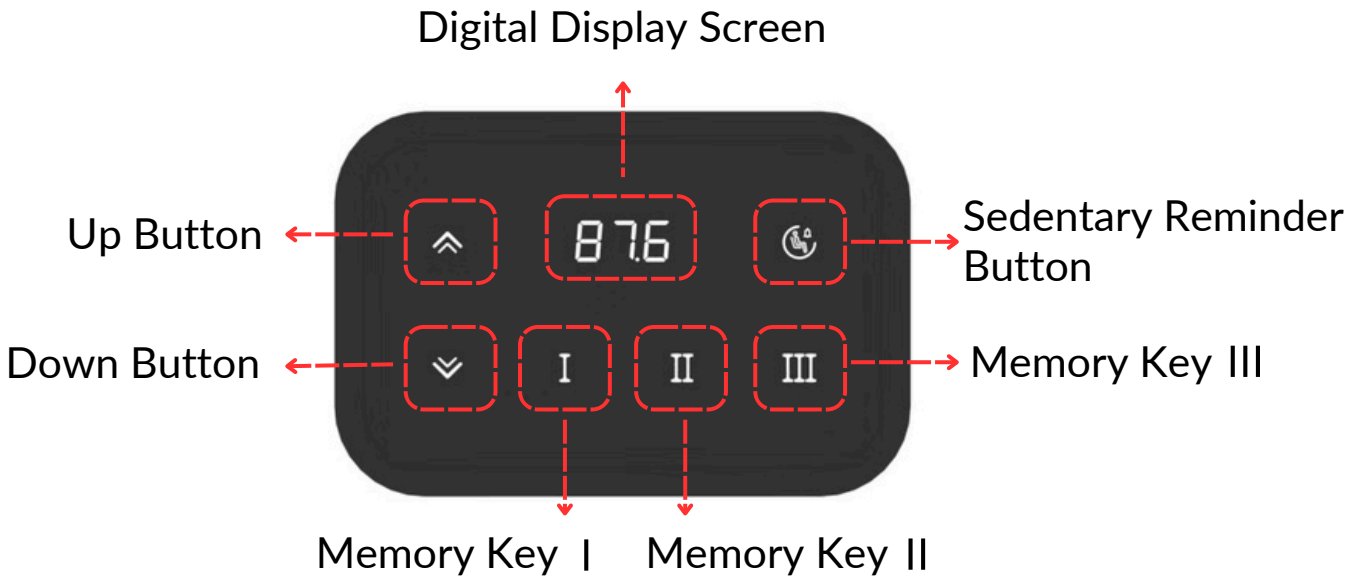
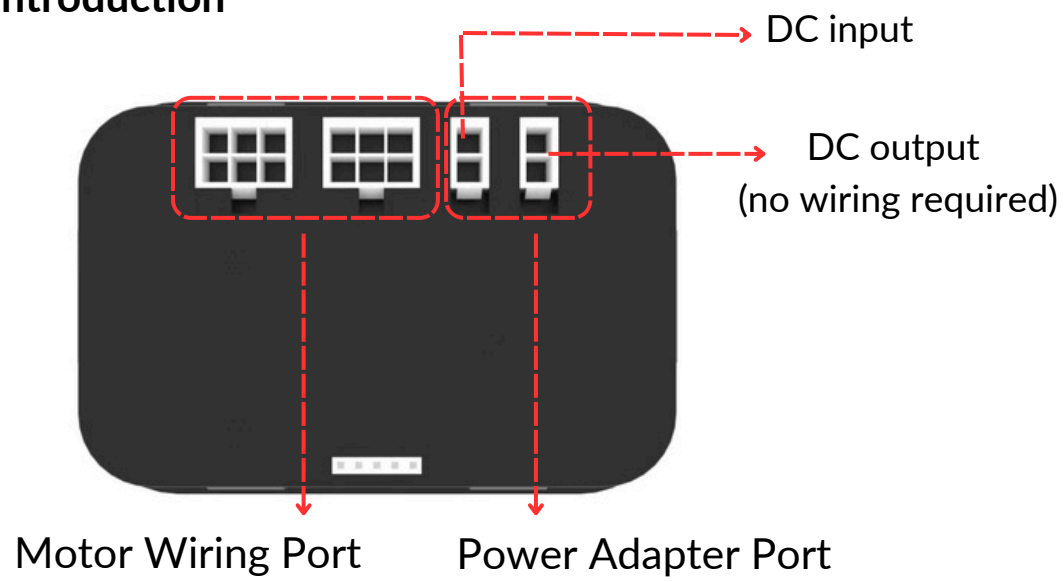
1. Hand Controller Overview

1.1 Front Button Layout Introduction



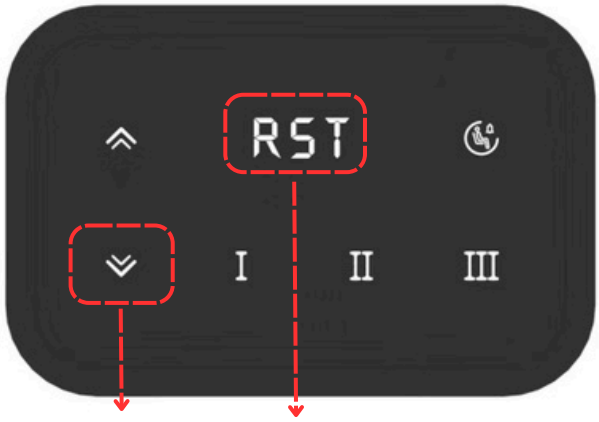
- **Up Button:** Press and hold to raise the desk. Release to stop.
- **Down Button:** Press and hold to lower the desk. Release to stop.
- **Display:** Shows the current desk height.
- **Memory I/II/III:** Press to move the desk to the saved height.
- **Sedentary Reminder:** Press to set the reminder interval. The controller beeps 5 times when the timer expires.

1.2 Rear Port Introduction



2. Mandatory Initialization Operation Steps

1.Mount the hand controller under the desktop.
2.Connect the power supply. The controller beeps twice and displays the default height.
3.Reset the controller.



Press and hold the Down button until the desk reaches its lowest position. Continue holding until "RST" disappears, then release.



Continue holding until "RST" disappears, the controller beeps once, and the minimum height appears. Release the button.

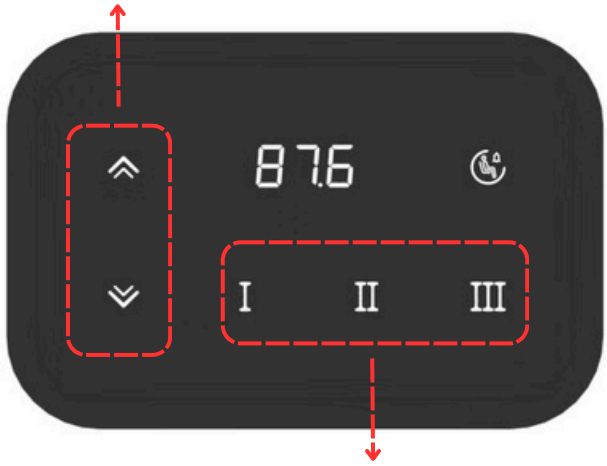
3. Functions & Operation Instructions

3.1 Height Position Memory & Auto Recall

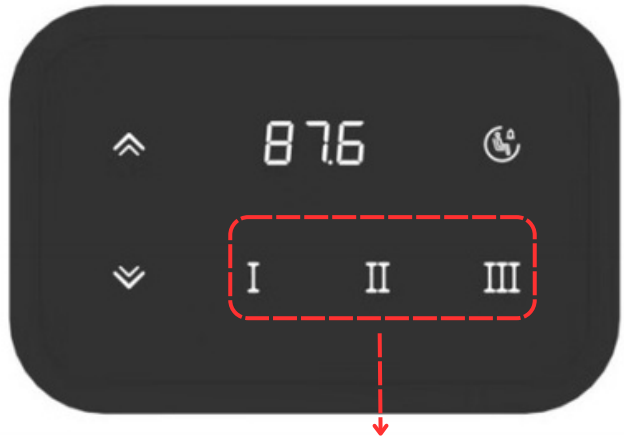
This controller supports 3 independent memory positions, and saved heights remain stored after power loss.

Height Saving Steps:

Adjust the desk to your target height by holding the Up / Down button.

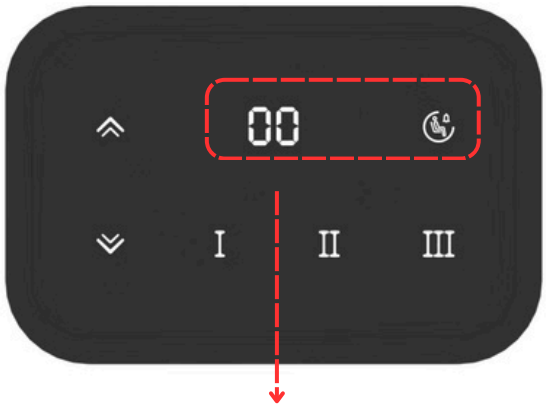


Press and hold a memory button (I , II , or III) for 5 seconds until the display flashes and two beeps sound.

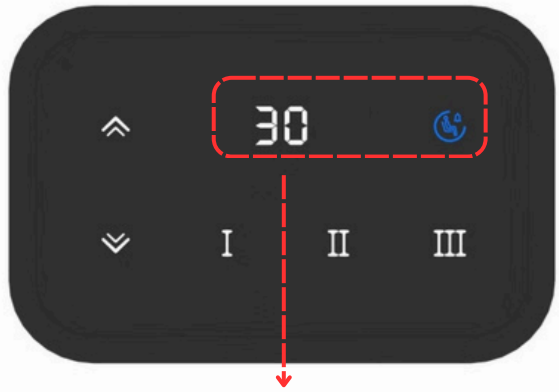


Press a memory button (I , II , or III) to move the desk to the saved height. Press any button to stop.

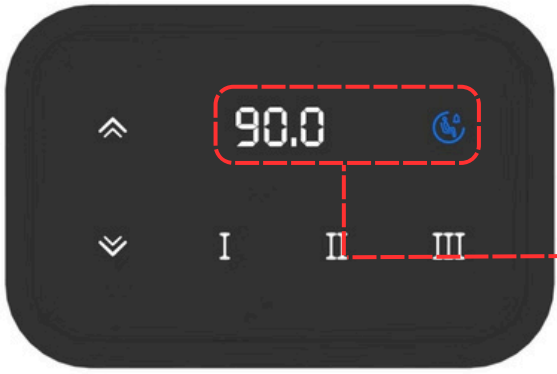
3.2 Sedentary Reminder Function



Press the Sedentary Reminder button. The display shows "00" (Off).



Press again to increase the reminder interval by 30 minutes, up to 120 minutes.



Wait for the display to return to the height. The button lights blue when the reminder is enabled.

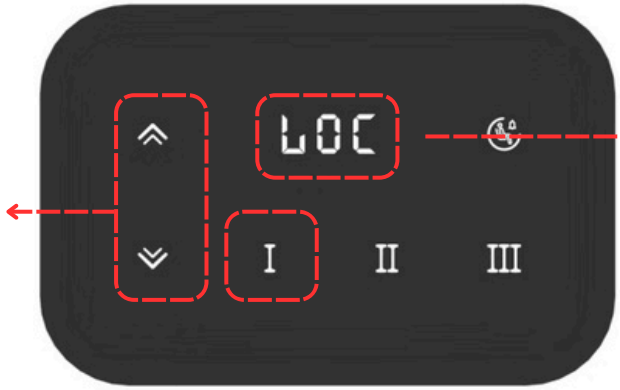
When the timer expires, the controller beeps 5 times.

- Set the interval to "00" to turn the reminder Off.
- Settings are saved automatically.
- The reminder can only be turned On or Off using the Sedentary Reminder button.

3.3 Controller Lock & Unlock

Lock Operation

Press and hold the Up, Down, and Memory I buttons for 5 seconds.



"LOC" appears to indicate the controls are locked.

Unlock Operation: Repeat the same step to unlock. "LOC" disappears and normal operation resumes.

3.4 Power Saving Mode

After 30 seconds of inactivity, the controller enters Power Saving Mode and the display turns off.

Tap the screen to wake the controller, or press and hold the Up or Down button to move the desk without waking the display.

4. Menu Operation Guide

4.1 Enter & Switch Menu Pages

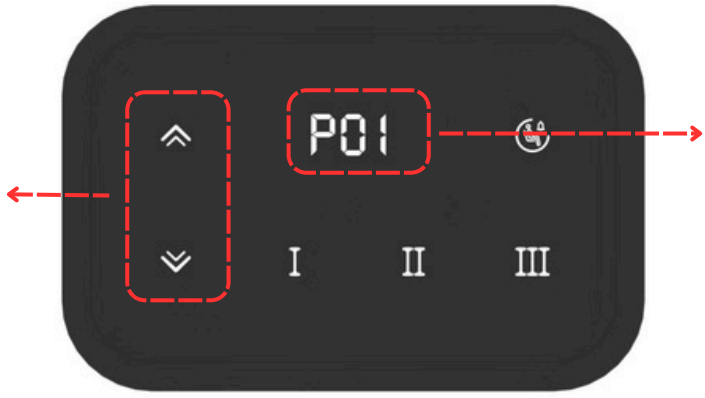
Only accessible when the desk is stationary (no movement):

Press and hold the Up and Down buttons for 5 seconds. Release when "P00" appears.



The menu closes automatically after 5 seconds of inactivity.

Press the Up or Down button to scroll through the menu.



P00 → P01 → P02 → P03 → P04 → P05 → P06 → P07 → P08

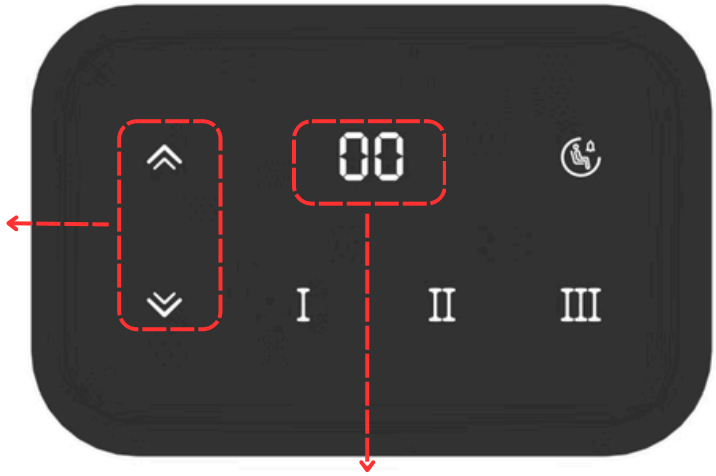
See Table 1 (Page 8) for parameter descriptions.

4.2 Enter Setting Pages & Save Parameters

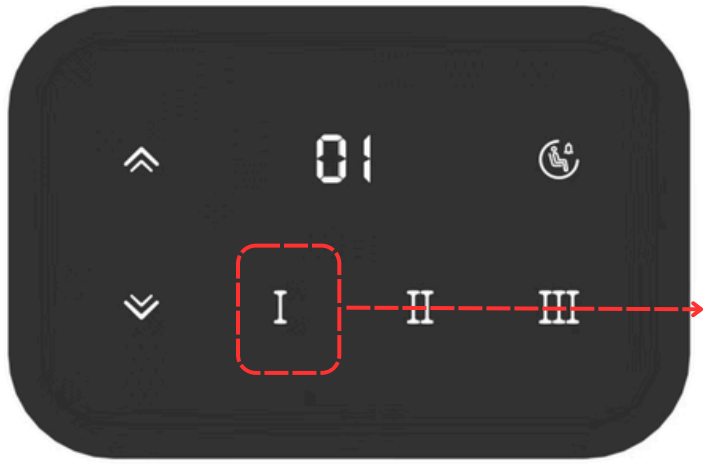


Use the Up or Down button to select a menu, then press Memory I to enter.

Press the Up or Down button to adjust the value.



See Table 1 (Page 8) for parameter descriptions and value ranges.



Press Memory I to save and return to the menu.

Ihe menu closes automatically after 5 seconds of inactivity.

4.3 Menu Parameter Reference Table

For detailed menu setting instructions, see pages 5–6.

Menu Item	Menu Page	Setting Range	Default Value	Description
Display Unit	P00	0 / 1	0	0: Metric (cm);1: Imperial (inch)
Minimum Height Limit	P01	Bottom + 1 cm ~ Top	Bottom	Setting range: (Bottom + 1) cm to Top cmIncrement: 1 cmThe minimum height must be at least 10 cm lower than the maximum height limit.
Maximum Height Limit	P02	Bottom ~ (Top − 1 cm)	Top	Setting range: Bottom cm to (Top − 1) cmIncrement: 1 cmThe maximum height must be at least 10 cm higher than the minimum height limit.
Desktop Thickness	P03	0 ~ 600	0	Unit: mmIncrement: 1 mmDisplayed height = Installation Height + Desktop Thickness + Stroke Travel
Upward Anti-Collision Sensitivity	P04	0 ~ 10	5	Upward anti-collision protection:0: Disabled1–10: Higher values = lower sensitivity and less likely to trigger E08.
Downward Anti-Collision Sensitivity	P05	0 ~ 10	5	Downward anti-collision protection:0: Disabled1–10: Higher values = lower sensitivity and less likely to trigger E08.
Buzzer Control	P06	0 / 1	1	0: Buzzer Off (fault alarm tones remain active);1: Buzzer On
Gyroscope Alarm Sensitivity	P07	0 ~ 3	0	0: Disabled;1: Low Tilt Angle;2: Medium Tilt Angle;3: High Tilt AngleHigher tilt-angle settings are more likely to trigger E09.
Gyroscope Anti-Collision Sensitivity	P08	0 ~ 10	0	0: Disable gyroscope anti-collision function1–10: Sensitivity levels. Higher values = lower sensitivity and less likely to trigger E08.

• **The gyroscope alarm and anti-collision functions are disabled by default**. They are enabled after the first reset or when parameter P07 is configured. The setting is retained after power loss.
• When the gyroscope is enabled, the controller checks its tilt angle at startup. If the handset is tilted more than 45°, E09 is disabled. Otherwise, E09 functions normally. This setting is not retained after power loss.

5. Fault Code Troubleshooting Reference Table

When a fault occurs, the buzzer emits two alert beeps and all desk movement functions lock. Once the fault is fully resolved, two beeps will sound to indicate normal operation is restored.

Error Code	Description	Troubleshooting
E01	Motor 1 Disconnected	Check all wiring connections. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E02	Motor 2 Disconnected	Check all wiring connections. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E03	Motor 1 Overcurrent	Check all wiring connections. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E04	Motor 2 Overcurrent	Check all wiring connections. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E05	Motor 1 Hall Sensor Disconnected	Check all wiring connections. If no issues are found, reconnect the Hall sensor cable.
E06	Motor 2 Hall Sensor Disconnected	Check all wiring connections. If no issues are found, reconnect the Hall sensor cable.

Error Code	Description	Troubleshooting
E08	Obstacle Detected	1. Check for any obstruction interfering with desk movement.2. If a gyroscope is installed, ensure it is securely mounted to avoid false obstacle detection.3. If the sensitivity setting is unsuitable, adjust the anti-collision sensitivity in menu **P04 / P05 / P08**.
E09	1. Desk Frame Height Imbalance 2. Gyroscope Tilt Detected	1. If the left and right sides of the desk frame are significantly out of alignment, check the wiring and perform a reset by holding the **Down Button** for 5 seconds, or power cycle the system.2. If a tilt alarm is triggered by the gyroscope, level the handset/controller and allow the alarm to clear automatically, or perform a reset. Sensitivity can also be adjusted in menu **P07**.
E10	High Voltage	Verify that the power supply is correct. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E11	Low Voltage	Verify that the power supply is correct. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E12	Motor 1 Disconnected	Check the power and motor cable connections. If everything is normal, press and hold the **Down Button** for 5 seconds to reset, or power the desk off and back on.
E13	Motor 2 Disconnected	Check the power and motor cable connections. If everything is normal, press and hold the **Down Button** for 5 seconds to reset, or power the desk off and back on.
E14	Overload Protection	Verify that the power supply and load conditions are correct. If no issues are found, press and hold the **Down Button** for 5 seconds to perform a reset, or power cycle the system.
E15	Handset and Control Box Communication Error	Check that the handset housing is securely attached and all connections are secure. Then press and hold the **Down Button** for 5 seconds to reset, or power the desk off and back on.
RST	Reset Failed	1. Power cycle the system.2. Repeat the reset procedure by continuing to hold the **Down Button**.3. Contact customer support if the issue persists.
HOT	Overheat Protection	The controller will automatically exit Overheat Protection Mode after approximately **18 minutes**, or immediately after a power cycle.

If you have any questions or concerns
don't hesitate to reach out to us.

customerservice@hulalahome.com