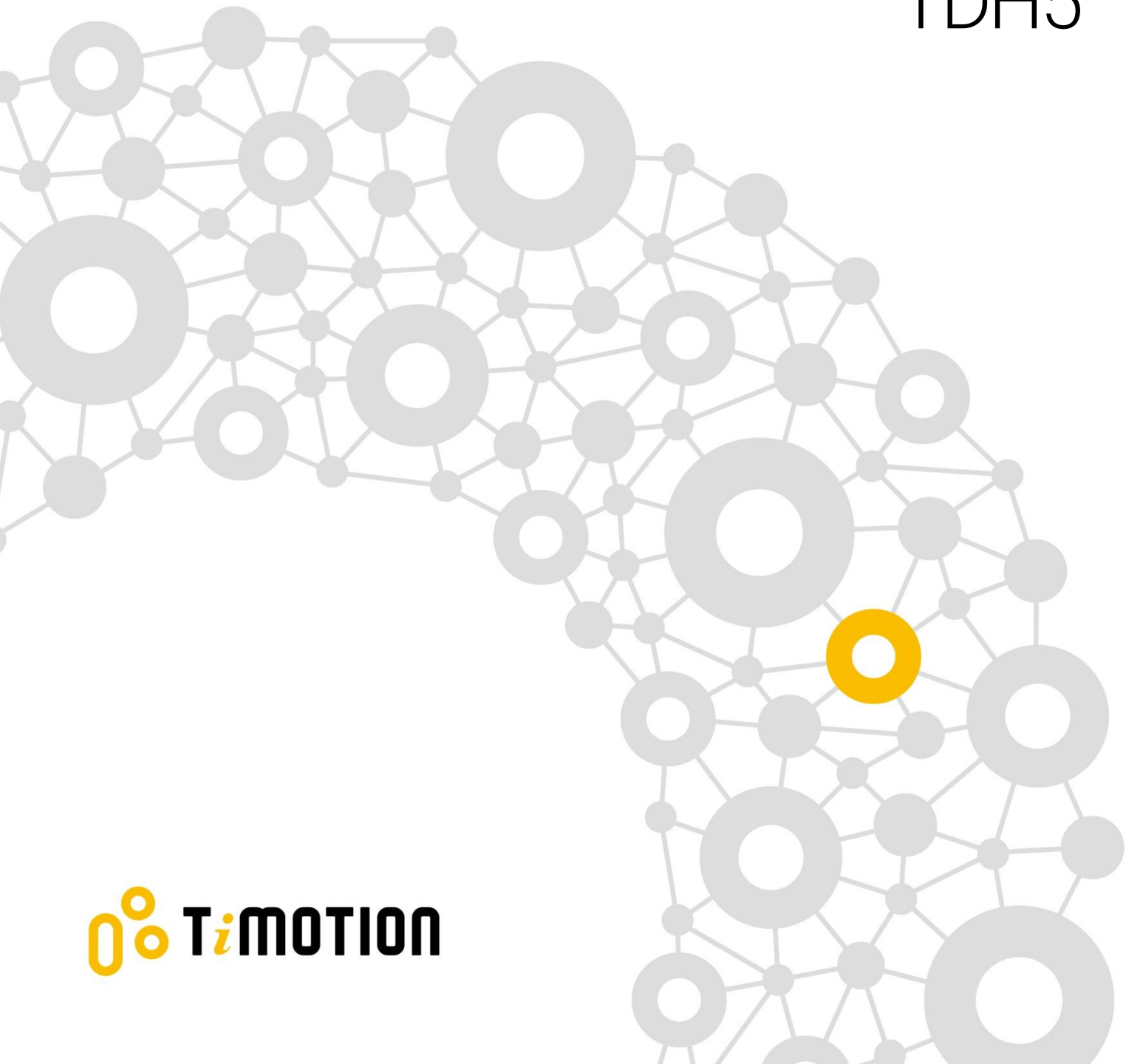
**20210811**

**User Manual**

# Hand Control Programming-TDH5



TiMOTION

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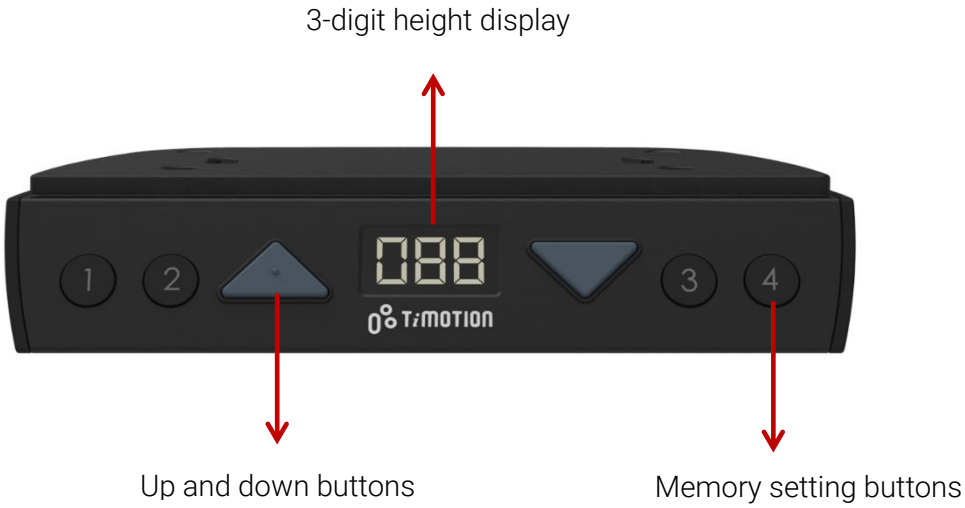
# Disclaimer

This user manual is ONLY for generic TiMOTION products. Manufacturers may have altered product settings causing them to differ from this user manual. Please contact the manufacturer for a revised manual if the product settings are different than this manual.

# 1.User Interface Guide



# 2.Reset

1. Simultaneously press ▲ and ▼ for 3 seconds. Continue pressing the buttons until both columns are in the lowest position. When finished with the reset, the control box will make a “beep” sound, and the buttons can be released.


2. When finished with the reset, the display will show the starting height.
3. Users must conduct a reset when operating the desk for the first time.

# 3.Adjusting the Height

Press ▲ or ▼ button until the desk reaches the preferred height.

# 4.Setting the Memorized Position

TDH5 supports a maximum of 4 memory positions.

**How to memorize a position:**

1. Adjust the desk to the desired height.
2. Press the preferred memory button (1, 2, 3, 4), with either ▲ or ▼ for 2 seconds. Once the display shows P1, P2, P3, or P4, then the position has been memorized.
3. Press (and hold) button 1, 2, 3, or 4 to move the desk to the memorized position. (Note 1)


Note 1: The control box setting determines whether or not the memory button needs to be held.

# 5.Setting the Upper and Lower Height Limit

**A. Setting the upper height limit:**

(1) Adjust the desk to the preferred upper height limit.

(2) Press ▲ and ▼ buttons together for less than 3 seconds, holding ▲ and release ▼ button.. (Note 2)

(3) Re-press ▼ more than 3 times at a slow pace..

(4) A beeping sound will notify you that the process has been completed..

**B. Disable the upper height limit:**

(1) Move the desk to the upper height limit being set.

(2) Repeat instructions #2 ~4 listed above to disable the upper limit setting.

**C. Setting the lower height limit:**

(1) Adjust the desk to the preferred lower height limit.

(2) Press ▲ and ▼ buttons together for less than 3 seconds, holding ▼ and release ▲ button. (Note 3)

(3) Re-press ▲ for more than 3 times at a slow pace.

(4) A beeping sound will notify you that the process has been completed..

**D. Disable the lower height limit:**

(1) Move the desk to the lower height limit being set.

(2) Repeat instructions #2~4 listed above to disable the lower limit setting.

Note 2: Some control boxes may not support setting the upper and lower height limit functionality.

Note 3: More than 3 seconds will direct to “Reset” mode.

# 6.Presetting the Desk Starting Height

(1) Press the ▼ button until the desk reaches its lowest position, then release the ▼ button. Re-press ▼ button again for 5 seconds, and the digital display will flash for 10 seconds.

(2) Adjust the starting height number with the ▲ or ▼ button.

(3) After 10 seconds, the display will stop flashing and this will confirm that you have successfully set the starting height.

# 7.Switching Metric and Imperial Unit

(1) Press memory buttons 1, 2, and 4 for 5 seconds.

(2) The digital display will show "C-I". If no further instructions is input within 5 seconds, the system reverts to normal operation mode.


- **How to choose a metric unit**

Press button 2, the digital display will show "C" to stand for centimeter.

- **How to choose an imperial unit**

Press button 3, the digital display will show "I" to stand for inch.

# 8.Adjusting built-in T-touch or TCS1 sensitivity

1. Press memory buttons 1 & 2 for 5 seconds, the display will show the current sensitivity level (0~9) by flashing. (Note 4)

2. Press the ▲ or ▼ button to adjust the sensitivity level. If no button is pressed within 5 seconds, the system will resume normal operation mode.
3. After adjusting, press memory buttons 1 & 2 again (or wait for 5 seconds), and the handset will go back to normal operationmode.

✓ While adjusting the sensitivity, if the TCS1 is connected with the control boxwhich has built-in T-touch, , both sensitivities will be changed simultaneously.

| Level | -0- | -1- | -2- | -3- | -4- | -5- | -6- | -7- | -8- | -9- |
|---|---|---|---|---|---|---|---|---|---|---|
| Sensitivity | Cancel T-touch | Less sensitive ← | | | | (Default) | More sensitive → | | | |

Note 4: Some control boxes may not support this functionality. If the control box does not support built-in T-touch or no TCS1 is connected, the display will show 0-0.

# 9.Power Saving Function - Waking Up the Control

- The digital display automatically turns off if no buttons are pressed within 25 seconds. Press any button to light up the display again.
- The system goes into <0.1W standby mode (Note 5) if no buttons are pressed within 30 seconds. Long pressing any button will wake up the system and show desk height on the digital display.

Note 5: It depends on the control box whether it will support 0.1W standby mode or not.

# 10. Restore Factory Setting

(1) Refer to Chapter 2-Reset: after the "beep" sound, press ▲ and ▼ buttons together for 15 seconds, the control box will twice make a "beep" sound, and the digital display will show "---. "

(2) The settings below will restore to the original factory settings:

- Memorized position
- Desk starting height
- Upper and lower height limit
- T-touch or TCS1 sensitivity

# 11. Troubleshooting

If the control box supports error reporting, the digital display shows the error codes below to suggest the issues that users may encounter during the operation.

| Error code | Buzzer | Description | Situation | Action |
|---|---|---|---|---|
| 0-0 | No Beep, the display will show 0-0 in flashing | No built-in T-touch or TCS1 is detected | The control box does not detect built-in T-touch or TCS1 | 1) Check to make sure the control box has a built-in T-touch.<br>2) Check to make sure the wire of the TCS1 is fully connected to the control box.<br>3) If adjusting the sensitivity cannot be performed, the device is defective, and needs to be replaced. |
| E00/ 000 | No Beep | Reset is in progress | 1. Perform a reset.<br>2. Make sure to release the buttons before the resethas been completed. | Press and hold the up/down buttons simultaneously to run the desk all the way down. You will hear a Beep when the reset has been completed.). The desk is now operational |

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| | | | | again. |
| E01 | 3 beeps | Overuse protection | Operating over the duty cycle's normal Time andfrequency. | Wait for about 5 minutes, and the desk will be operational again. |
| E02 | 2 beeps | Unbalanced protection | A Desk tilt is detected. | 1) Even out the load on the desk and perform a reset.<br>2) If a reset can't be performed, or the error keeps being triggered after a reset, one of the columns is defective and needs to be replaced. |
| E03 | No beep, desk reverse 40mm | Anti-collision | An obstacle is detected while the desk is operating. | 1) Remove the obstacle, and the desk should return back to normal operation **after completing the reversing cycle.** |
| E04 | No beep, desk reverse 30mm | T-touch protection | An obstacle is detected while the desk is operating. | 1) Remove the obstacle, and the desk should return back to normal operation **after completing the reversing cycle.** |
| E11 | 5 beeps | M1 motor overcurrent protection | M1 motor is overloaded | 1) Remove the heavy load and the desk will return back to normal operation.<br>2) If the desk still cannot be operated normally, perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M1 column is defective and needs to be |

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| | | | | replaced. |
| E12 | 5 beeps | M2 motor overcurrent protection | M2 motor is overloaded | 1) Remove the heavy load and the desk will return back to normal operation.<br>2) If the desk still cannot be operated normally, perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M2 column is defective and needs to be replaced. |
| E13 | 5 beeps | M3 motor overcurrent protection (Only if the desk has 3rd column) | M3 motor is overloaded | 4) Remove the heavy load and the desk will return back to normal operation.<br>1) If the desk still cannot be operated normally, perform a reset and operate the desk.<br>2) If a reset can't be performed, or the error keeps being triggered after a reset, the M3 column is defective and needs to be replaced. |
| E14 | 5 beeps | M4 motor overcurrent protection (Only if the desk has 3rd column) | M4 motor is overloaded | 5) Remove the heavy load and the desk will return back to normal operation.<br>1) If the desk still cannot be operated normally, perform a reset and operate the desk. |

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| | | | | 2) If a reset can't be performed, or the error keeps being triggered after a reset, the M4 column is defective and needs to be replaced. |
| E21 | 1 long beep | No signal feedback from M1 | Signal from M1 is not detected | 1) Unplugthe motor cable, wait for a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after areset, the M1 column is defective and needs to be replaced.. |
| E22 | 1 long beep | No signal feedback from M2 | Signal from M2 is not detected | 1) Unplug the motor cable, wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M2 column is defective and needs to be replaced. |
| E23 | 1 long beep | No signal feedback from M3 | Signal from M3 is not detected | 1) Unplugthe motor cable, wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after |

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| | | | | a reset, the M3 column is defective and needs to be replaced. |
| E24 | 1 long beep | No signal feedback from M4 | Signal from M4 is not detected | 1) Unplugthe motor cable, wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M4 column is defective and needs to be replaced. |
| E31 | 4 beeps | No power consumption from M1 | No current is detected from M1 | 1) Unplugthe motor cable, wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed or the error keeps being triggered after a reset, the M1 column is defective and needs to be replaced. |
| E32 | 4 beeps | No power consumption from M2 | No current is detected from M2 | 1) Unplug the motor cable, wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M2 column is defective and needs to be replaced. |

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| E33 | 4 beeps | No power consumption from M3 | No current is detected from M3 | 1) Unplugthe motor cable, wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M3 column is defective and needs to be replaced |
| E34 | 4 beeps | No power consumption from M4 | No current is detected from M4 | 1) Unplugthe motor cable. wait a moment, then plug it back in.<br>2) Perform a reset and operate the desk.<br>3) If a reset can't be performed, or the error keeps being triggered after a reset, the M4 column is defective and needs to be replaced. |