






OP085
Standing Operation Desk
User Manual

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Symbol Definition	
	WARNING: Indicates information that a potentially hazardous situation which, if not avoided, could result in serious injury or death.
	RISK OF ELECTRICAL SHOCK: Indicates information that Potential shock hazard where HAZARDOUS LIVE voltages greater than 30V RMS, 42.4V peak, or 60V DC may be accessible.
	ESD HAZARD: Indicates information that Danger of an electro-static discharge to which equipment may be sensitive. Observe precautions for handling electrostatic sensitive devices
	ATTENTION: Identifies information that requires special consideration.
	TIP: Identifies advice or hints for the user.

Safety & Caution Symbols

The following table lists Safety & Caution symbols used on equipment.














No.	Symbol	Description
1		Direct current (DC)
2		Alternating current (AC)
3		Ground (Earth) terminal
4		Protective earth (ground) terminal
5		Reference ground (Earth) terminal
6		Frame or chassis
7		Equipotentiality
8		On (power)
9		Off (power)
10		Caution, risk of electric shock
11		Caution, hot surface
12		Caution, risk of danger
13		Electrostatic sensitive devices (ESD)

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OP085 Standing Operation Desk

Section 1 Introduction

The OP085 standing operation desk is an ergonomic workstation with electric height adjustment, designed to provide a comfortable, flexible, and ergonomically designed work platform.

1.1 Functions and Features

- **Intelligent Height Adjustment:** Meet your requirements for adjusting the height of the desktop due to different heights, preferences, or work needs.
- **Intelligent Lighting:** The screen color system is linked to alarm signals, and the ambient lighting color is adjustable. The desk is equipped with automatic sensing illumination inside the host housing.
- **Support for various intelligent device options** (Note: Some devices require support from upper-level software): Card recognition devices, voice recognition devices, facial recognition devices, touch screens, directional speakers, and etc.
- **Modular Design:** Convenient for transportation, installation, configuration, and maintenance.
- **Vent Design:** Keep your equipment always in good condition.
- **Support for accommodating two or more chassis.**
- **Sturdy Structure:** Ensure stability, durability, and reliability.

1.2 Operation Desk Components

The main components of the OP085 operation desk are as shown in the figure below.

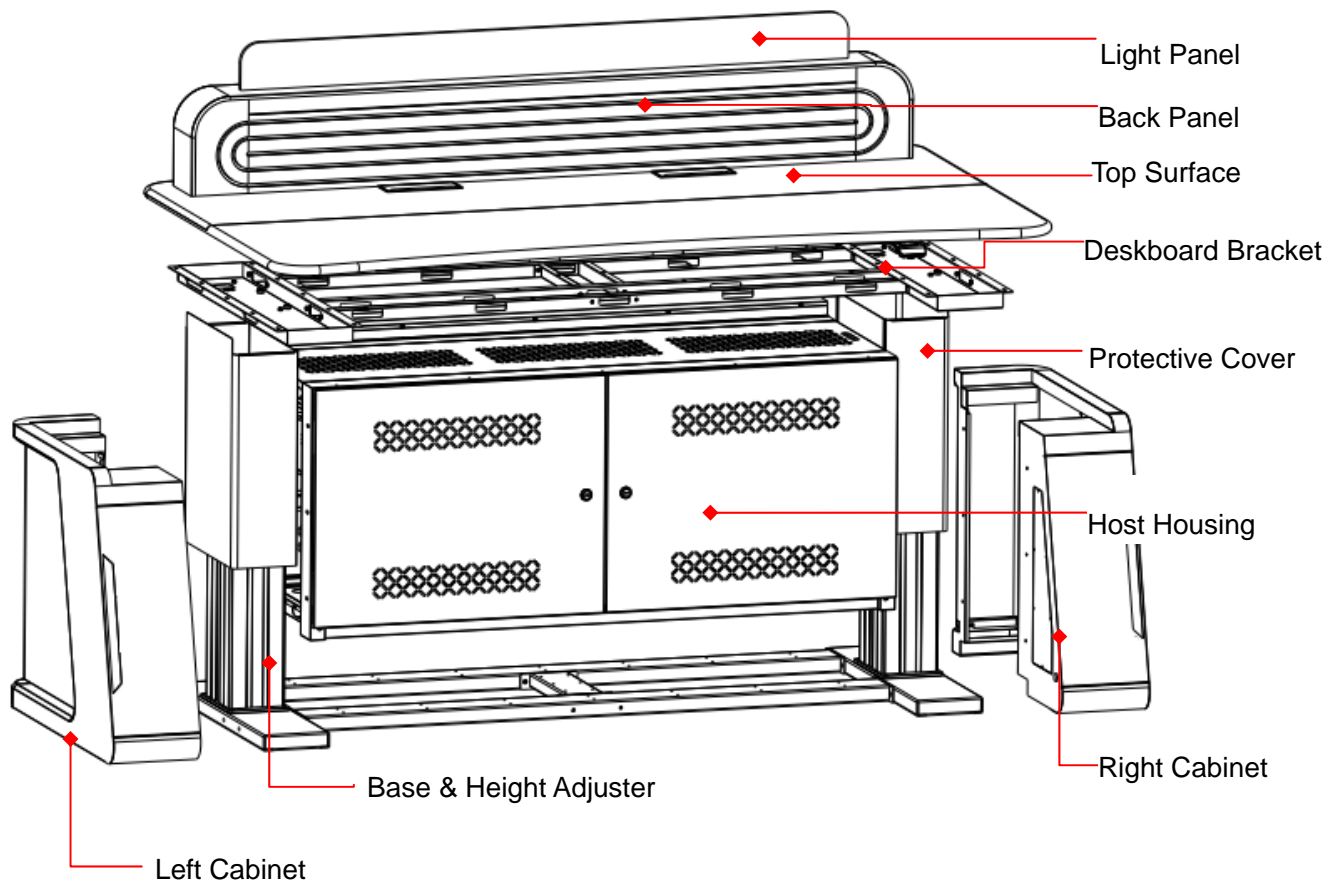


Figure 1-1 OP085 operation desk

The main components are shown as follows:

- **Top surface & deskboard bracket:** The top surface is used to place industrial keyboards, regular keyboards, mice, monitors, touch screens, and other devices. It serves as the main activity center for operators. It can be made of 18mm anti-static board or 25mm fireproof board. The bracket provides structural support to enhance the rigidity of the desktop.
- **Light panel & back panel:** The light panel and back panel are assembled using a combination of sheet metal and aluminum profiles, fixed on the desktop. The back panel can accommodate accessories such as monitors, phone holders, work lights, and folders. The light panel serves decorative and alarm display purposes, with its display color linked to upper-level alarm signals.
- **Host housing:** The host housing consists of a frame, front and rear doors, etc. It is primarily used to house computer hosts. The housing can accommodate two operator station hosts and includes a PDU and grounding copper strips to meet electrical functionality requirements. Optional accessories for the interior include pull-out host trays and lighting to facilitate maintenance inside the housing.
- **Left/ right cabinet & protective cover:** Installed on both sides of the desk, these cabinets serve to beautify the desk and protect the height adjuster. They also house chain-type

cable trays to facilitate cable management between desktop devices and the host housing. Auxiliary devices such as LED strip controllers and control units for the height adjuster may be installed inside the cabinets.

- **Base & height adjuster:** The base serves as the load-bearing structure of the entire desk, providing sufficient stiffness and strength. The height adjuster is fixed on the base and allows height adjustment. It can be controlled manually or via commands from an upper-level computer. The height adjustment range of the desktop is 760 to 1,260 mm.
- **Ambient Lighting:** Ambient lighting strips are installed at the rear of the desk, beneath the sides, and in front of the left and right cabinets. They serve a decorative purpose, and the color of the ambient lighting can be manually adjusted.

1.3 Dimensions

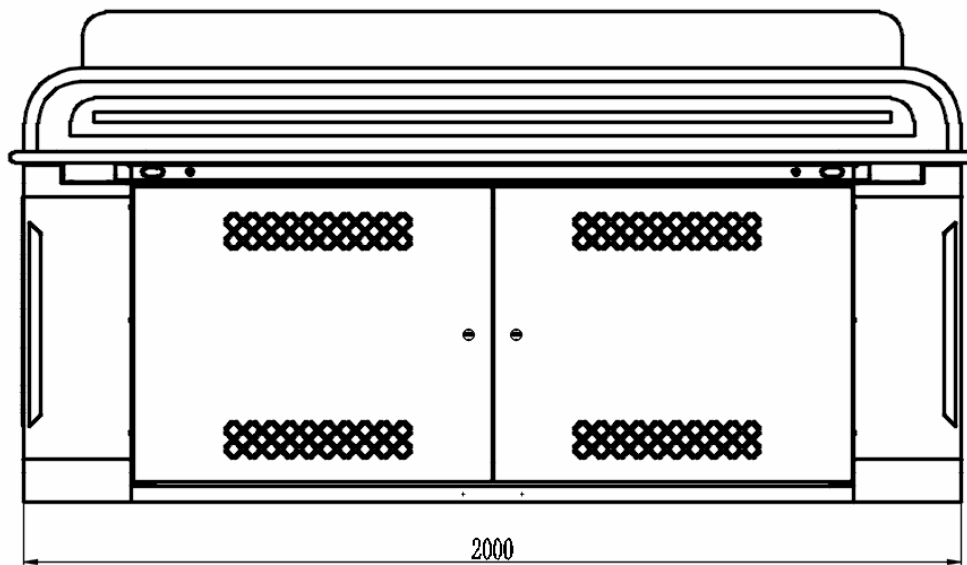


Figure 1-1 Base width

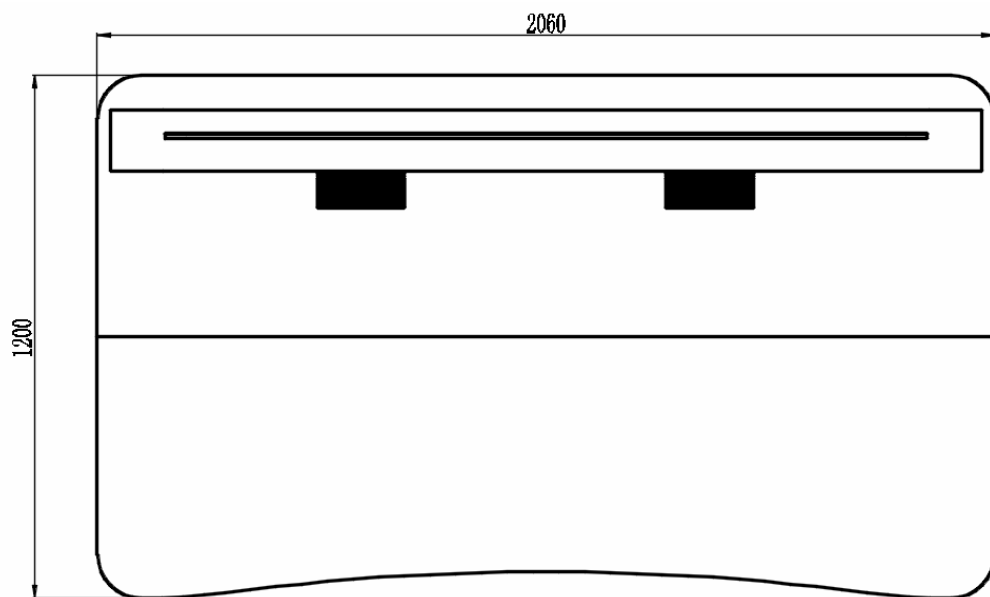


Figure 1-2 Desk dimensions

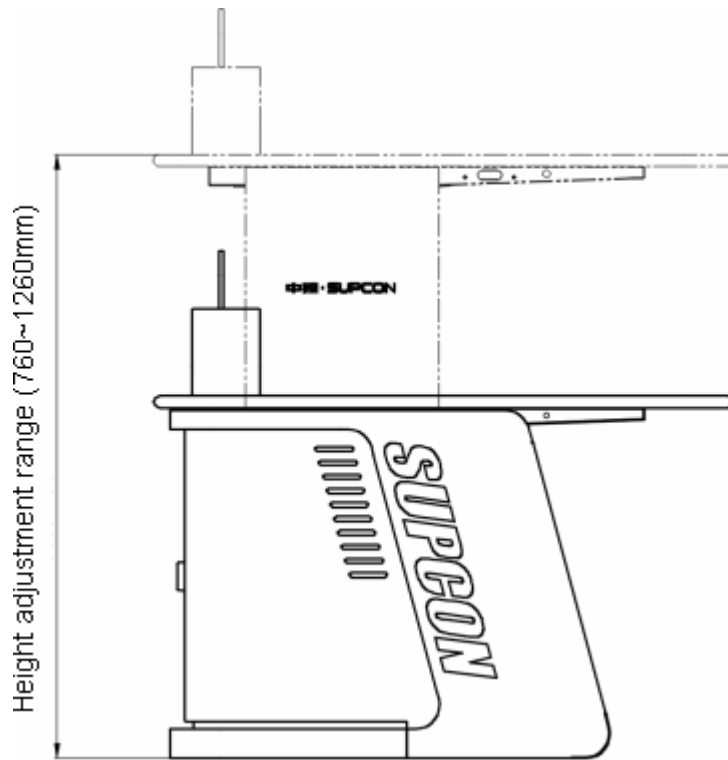


Figure 1-3 Dimensions of OP085 (unit: mm)

1.4 Technical Specifications

- Materials: Top surface: flameproof sheet.
Body and cabinet: cold rolled sheet.
- Standard color: primarily dark gray.
- Storage environment:
Temperature: -40 to +70°C; Humidity: 5 to 95%, non-condensing.
- Transportation environment:
Temperature: -40 to +70°C; Humidity: 5 to 95%, non-condensing.
- Operating environment:
Temperature: 5 to 40 °C.
Humidity: 5 to 85%, non-condensing; Temperature change rate: 0.5 °C/min.
- Standards:

GB/T 7269 Arrangement, types, and basic dimensions of consoles for electronic equipment

GB/T 10217 Design guide of the outline and structure for the electric control equipment

DLT 575.1 Ergonomic principles for the design of control centers.

Section 2 Safety Notices

Electric Safety

- Install during power off.
- Do not directly contact components with electricity.
- Do not touch exposed terminals of distribution unit when the system is running.
- It is strictly forbidden to directly use a conductor to distribute power from the socket in the power distribution unit.

Transportation

- Inclining angle must be less than 10°.
- Handle with care, and avoid rolling or put it upside down.
- Avoid intensive collision or vibration.
- Do not move the system with castors.
- Be extremely careful when hoisting the product by a forklift; objects shall not be moved at the same time.

Protection

- Unpacking before moving is strictly prohibited. Goods should be moved to the installation field before unpacking.
- Please wear protective outfits, such as gloves, to prevent accidental injuries.

Section 3 Steps

3.1 Preparations

1. Tools
 - Transport: forklift or platform truck.
 - Unpack: a steel pry bar or a hammer with pry bar.
 - Install: Phillips screwdriver, hex wrench, slotted screwdriver, 17 mm wrench.
2. Ground Requirements

Flat and clean. No need for reinforcement.

3.2 Unpacking and Checking the Package

To unpack the product:

1. Make sure personnel from two parties of supply and demand and the package box all have arrived at the installation field.
2. Disassemble the metal parts on the four corners of the package box.
3. Pry up the cover of the package box.
4. Remove the side boards of the package box.
5. Take out the packing list, and check the quantity and quality against the list.
6. Both parties should sign to confirm the result.
7. Clean up the installation field.

3.3 Installation



Tips:

This section does not include the installation of external devices placed on the desk.

- 1) Install the base and height adjuster.

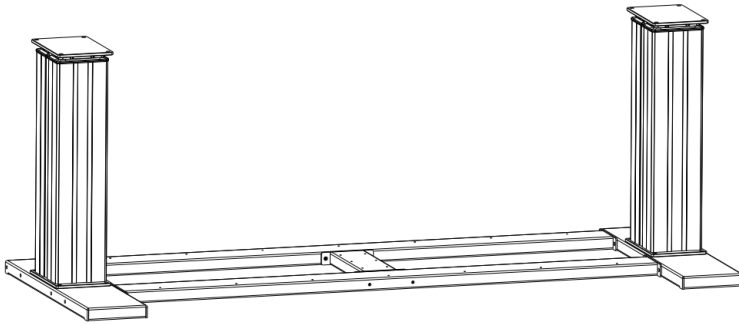


Figure 3-1 Install the height adjuster

- 2) Fix the host housing to the base.

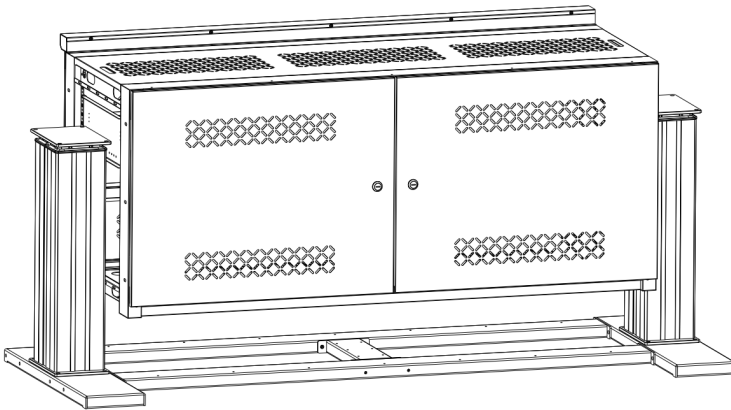


Figure 3-2 Install the host housing

- 3) Fix the deskboard bracket to the two lifting columns.

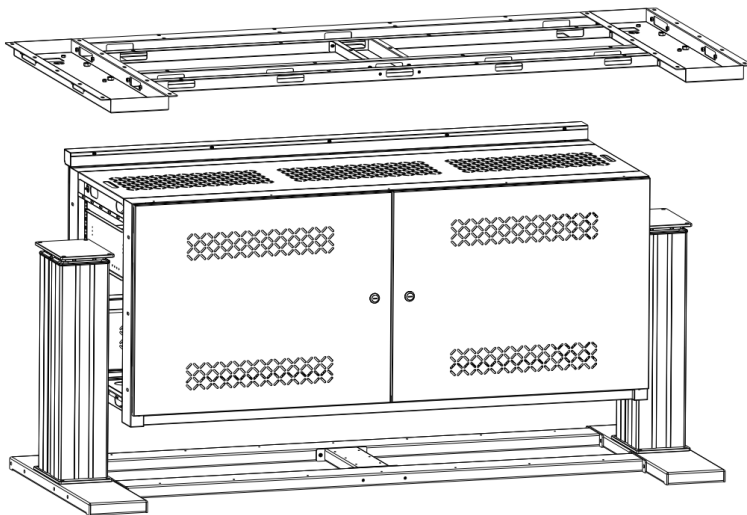


Figure 3-3 Install the deskboard bracket

- 4) Install the top surface. Prior to installation, connect the power supply to the lifting columns. Use a manual controller to raise the columns to their highest position. Then place the desktop onto the bracket and secure it from the back. Finally, fix the back panel onto the desktop, and insert the light panel into the corresponding position on the back panel.

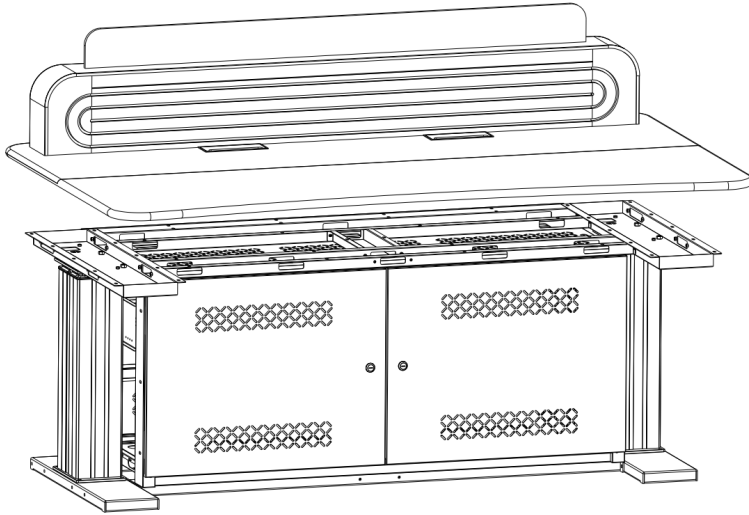


Figure 3-4 Install the top surface

- 5) Install protective covers, and left/right cabinets.
 - a) Install the protective covers. The protective cover consists of a C-shaped housing and a cover plate. First, fix the C-shaped housing to the bracket, and then secure the cover plate onto the C-shaped housing. When installing the housing, make sure to enclose the cable tray.
 - b) Install the left/right cabinets. Place the cabinets tightly against the side of the main housing, and secure them together using screws.

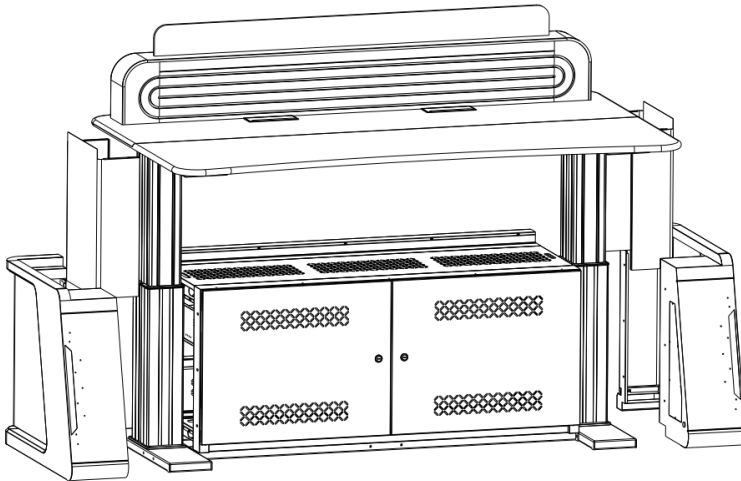


Figure 3-5 Install the cabinets and protective covers

- 6) Electrical connections.

Connect the electric wires and cables, and properly manage them.

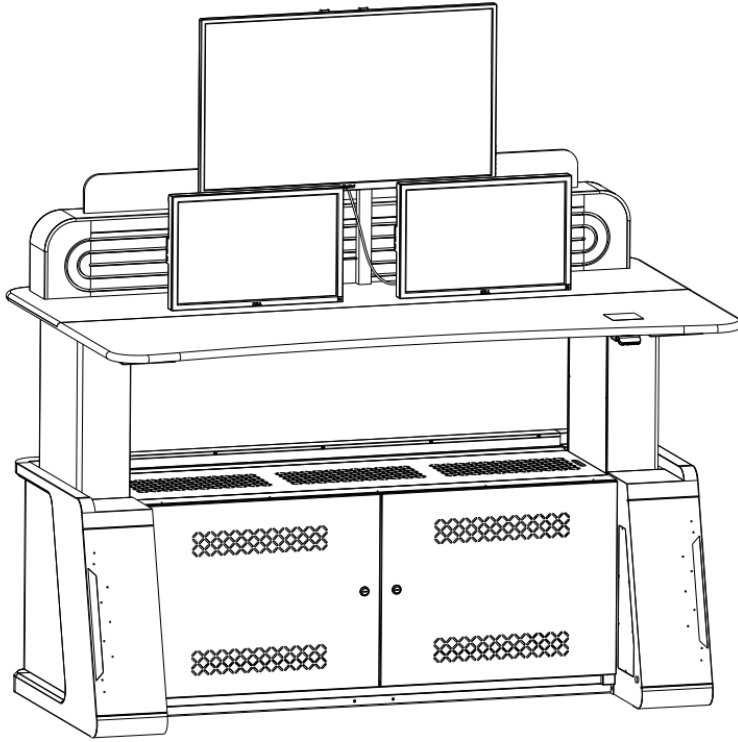





Figure 3-6 *Electrical connections*

Section 4 Adjusting Operation Desk

The keypad is shown in Figure 4-1.



Figure 4-1 Keypad

Symbol	Description	Function
	Reminder	Setting reminders
	Bluetooth [®]	Connecting the Desk Control [™] App via Bluetooth [®]
	Favorite	Saving favorite positions

4.1 Driving the Desk

Drive the desk by tilting the keypad.

- 1) Tilt and hold up the keypad to drive desk up, press and hold down DPG1K to drive desk down.

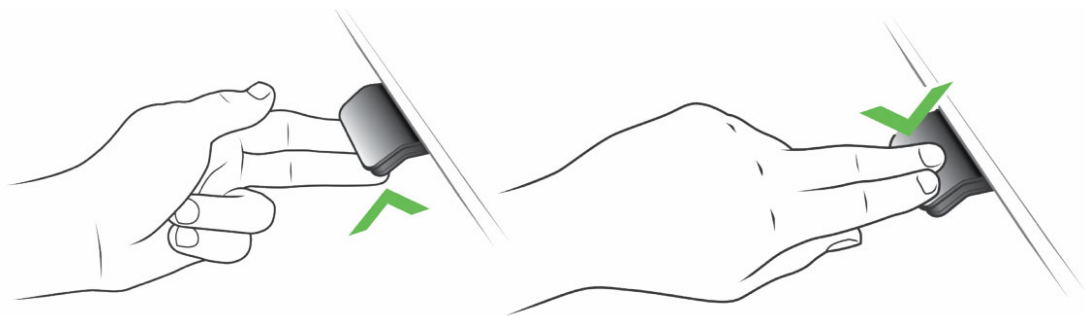


Figure 4-2 Drive the desk up (left image) and down (right image)

- 2) Release the keypad when you have reached your requested position.

4.2 Setting Height Limits





Attention:

It must always be possible to drive the desk to its minimum height in case initialization is required.



During initialization items placed under the desk must be removed.

In case the desk cannot be operated in its entire span (e.g. a shelf is blocking the upwards movement or a filing cabinet is placed under the desk and blocking the downwards movement), it is possible to set an upper limit and a lower limit for the desk height.

Setting upper limit



- 1) Adjust desk to maximum allowable height.
- 2) Press  and tilt the keypad up at the same time for 8 seconds until light flashes.
- 3) Release  and the keypad.

Setting lower limit

- 1) Adjust desk to minimum allowable height.
- 2) Press  and press the keypad down at the same time for 8 seconds until light flashes.
- 3) Release  and the keypad.



4.3 Changing Measurement Unit

The measurement unit shown in the display can be set to either cm or inch.

- 1) Press  and  buttons at the same time for 5 seconds and the current measurement unit flashes in display.
- 2) When e.g. "CM" flashes in display, tilt the keypad once to change measurement unit to inch. "INCH" now flashes in display.
- 3) Press any button to confirm measurement unit or wait for 10 seconds for automatic confirmation.

4.4 Adjusting the Displayed Height

If the height shown in the display is not correct, it can be adjusted.

- 1) Press the  and the  buttons at the same time for 5 seconds and the height in the display starts to flash.
- 2) Tilt the keypad to change the displayed height without moving the desk. Tilt up to increase the displayed height, tilt down to decrease the displayed height.
- 3) Press any button to confirm the height or wait for 10 seconds for automatic confirmation.

4.5 Saving and Driving to Favorite Positions



Tip:


After a favorite position has been reached, if you keep tilting/pressing the keypad for more than 1 second or release the keypad and immediately tilt/press it again, the desk will move past the favorite position and continue its movement.



Saving favorite positions

Up to 4 favorite positions can be saved.

During desk driving, when a favorite position has been reached, the desk stops at that position.

To save favorite positions:


- 1) Adjust desk to a preferred position.
- 2) Press  button for two seconds.

The LED flashes white two times to indicate that saving the position is in progress. Not until the LED becomes static white, has the position been saved. The display indicates the saved position with a  and a position number. The number next to the  indicates the order in which the positions are saved.




Tip:

If the user adjusts the desk to another position and saves this position, it will overwrite the favorite position closest to the current position.

- 3) Press  button shortly to make display toggle through the four favorite positions (with position number next to it).

Toggle through these four favorite positions in display and choose which one to save current position as.


- 4) Press  button for 2 seconds and favorite position is saved.

Driving to favorite positions

After saving the favorite positions, you can reach the positions simply by tilting/pressing the keypad.


- 1) Tilt/Press and hold - when a saved position has been reached, the desk stops.
- 2) Release the keypad within one second.

Erasing favorite positions


Press the  button for 8 seconds to erase all saved favorite positions.

After 5 seconds, the display shows a countdown, and the light strip flashes red when all the favorite positions are erased

4.6 Connecting Bluetooth®

The apps are called "Desk Control™" and they have the app logo () in iTunes and Apple App store, Google Play store, and Microsoft Store.

To pair the desk:

- 1) Press  button for two seconds to enable pairing mode.

The display on the keypad will inform about the Bluetooth® ID of the desk, which is "DESK" followed by a four-digit number – look for this ID in the list of "Desks nearby" in the App.

- 2) The light strip flashes blue while the panel is in pairing mode.



Figure 4-3 Connect Bluetooth®

4.7 Setting Sedentary Reminder

The light strip flashes to remind you to get up and move around when you have been sitting too long.


4.7.1 Principle

While the user is sitting for an appropriate amount of time according to the set interval, the light strip calmly pulsates green symbolizing a heartbeat.

When the sitting interval runs out, the calm pulsating green turns into fast pulsating orange for one minute hereafter into static orange to indicate that the user should adjust the desk to standing height.

In standing height, the light strip pulsates green until a potential timeout (standard timeout is four hours). When the desk is adjusted back to sitting height, the light strip pulsates green until the reminder goes off again.

4.7.2 Setting the Reminder

- 1) Press the  button to adjust interval of getting reminded to change position.
- 2) Toggle through intervals by pressing button.

The number of white blocks (one, two or three) each representing an interval. The three standard intervals are:

- Interval 1: Reminder after 55 minutes sitting
- Interval 2: Reminder after 50 minutes sitting
- Interval 3: Reminder after 45 minutes sitting

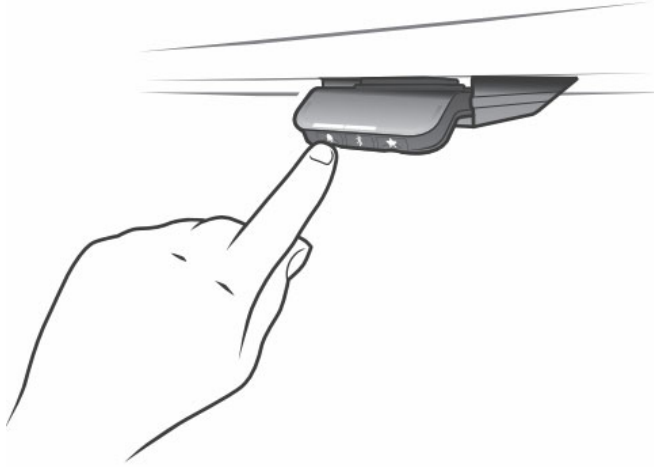



Figure 4-4 Example reminder (reminds after 50 minutes sitting)

- 3) Release button when desired interval is indicated.
- 4) When no white blocks are lit up, the reminder is turned off.

Through the app, it is possible to personalize the three intervals to custom values

4.7.3 Resetting the Reminder

Press  button for 8 seconds to reset reminder to default values.

After 5 seconds the display shows a countdown and the light strip flashes red when the reminder is reset.

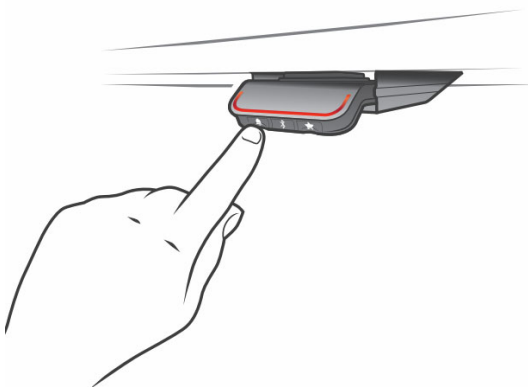





Figure 4-5 Reset the reminder



4.8 Setting Key Lock

The operation of keypad can be locked to prevent unintended driving of the desk. As default the key lock is disabled. If enabled, it automatically locks the keypad after a configured amount of time.

To unlock the keypad:

Press , , and  in sequence (max. one second between each button press).

4.9 Restoring to Factory Settings

- 1) Press and hold the  and  buttons for 8 seconds to reset the keypad to factory default.
- 2) The LED/light strip flashes red three times to indicate the reset is done.

Note: During reset, the display lights up after 5 seconds, showing an arrow with a countdown [seconds].

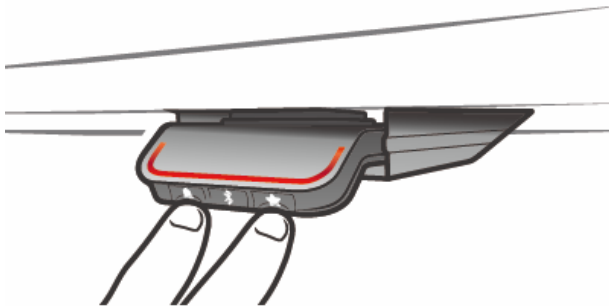


Figure 4-6 Restore to factory settings

4.10 Light Control and Operation Instructions

There are several types of lights on this control panel: light panel, ambient light, and host box illumination.

Light Panel

The light panel is located above the back panel and serves as an alarm indicator. Its displayed color is linked to the alarm signals in the upper computer software. The electrical connection is illustrated in the diagram below:

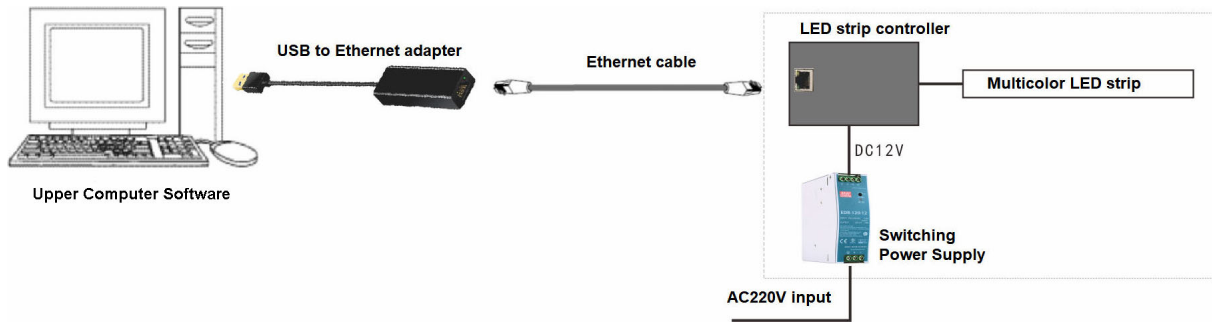


Figure 4-1 Wiring

Ambient Light

The ambient light is positioned at the back, lower sides of the control panel, and the front of the side cabinets. Its main purpose is to enhance the aesthetics and technological sense of the control panel.

Host Box Illumination:

The host box illumination is located on both sides of the host box, providing illumination for internal maintenance. The illumination light has three operating modes: constant, automatic, and off, controlled by a three-position switch on the light.

- **Constant:** If the switch is set to the constant position, the illumination light will remain on until manually turned off.
- **Automatic:** If the switch is set to the automatic position, the illumination light is controlled by a sensor. When the box door is opened or someone approaches, the light will turn on automatically. It will turn off when a person moves away or the box door is closed.
- **Off:** If the switch is set to the off position, the illumination light will remain off until manually turned on.

Section 5 Revision History

Table 5-1 Revision history

Version	Applicable product model	Remarks
V1.0 (20230919)	OP085	First release.