






**OP073 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.

Security& Caution Symbols

The following table lists Security& Caution symbols used on equipments.














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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OP073 Operation Desk

Section 1 Overview

OP073 operation desk adopts an all-metal structure design. The keyboard, mouse, display, and other accessories can be placed on the desk. The host or server can be placed at inner of desk, and equipped socket which can power supply five electric appliances. The twin channel power supply switcher can also be installed to ensure the credibility of device operation. At inner of the desk, you can install relay, wiring terminal and other external accessories. If 19" installing rack is selected, then the rack can be installed with 19" installing component such as switch.



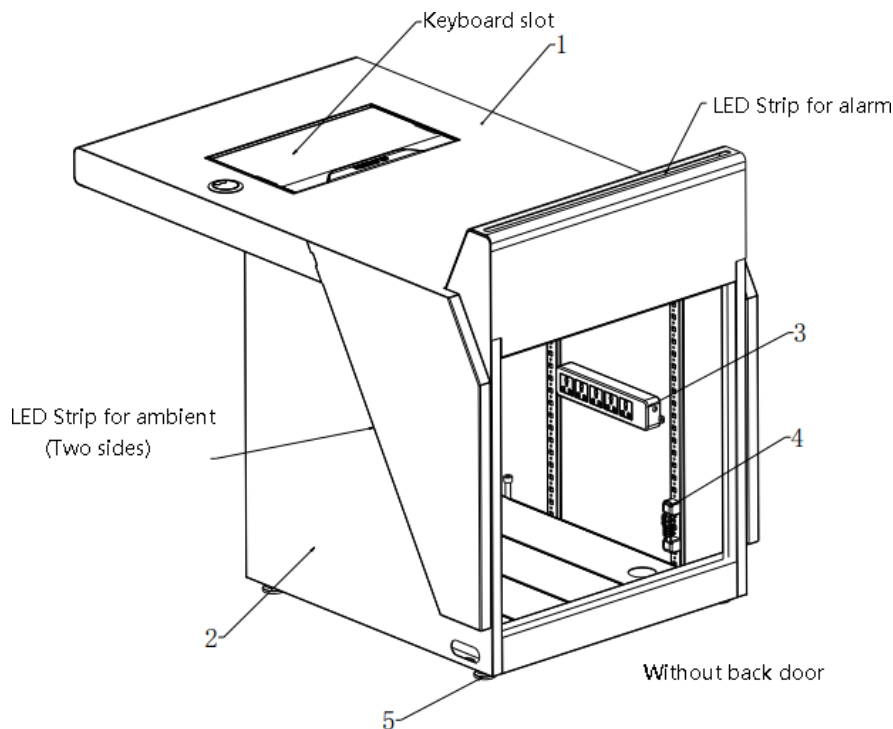
Figure 1-1 Structure of operation desk (subject to available products)

1.1 Functional Features

- All-metal integrated structure, robust, reliable and durable.
- Front and rear cut-outs, natural ventilation.
- Big space, 2 hosts can be placed.
- LED strip for alarm or ambient can be installed.

1.2 Operation Desk Structure

The operation desk is mainly consist of table plate and table body, which carries the main equipment of the operation station. Structure of single operation desk is shown as Figure 1-2.



1-table plate, 2-table body, 3-power distribution, 4-grounding copper bar, 5-adjustable feet

Figure 1-2 Structure of operation desk

Table Plate: Used to place the industrial and normal keyboard, mouse, LCD and other accessories, which is the main operation platform on the operation desk.

Table Body: Comprised of standing column, isolation board, front and back doors and more. The inner structure has power distribution unit, wiring terminal unit, grounding copper bar and more. In the main body, two host computer of two operation stations (standing type) can be placed.

Power Distribution Unit: Comprised of switcher (or relay terminal), power socket and the rack board for power distribution. You can add a power switch on the inner left and right sides of the operation. When two groups of independent power supply are provided from the outside, the unit enter the power socket through the switcher; when the single group of power supply is provided from the outside, the unit enter the power supply socket through the wiring terminal.

Grounding Copper Bar: The inner left and right sides of the operation are respectively provided with grounding copper bars, which is used to connect the protective earth in the control system.

Adjustable feet: You can fine-tune the height of the operation desk to make the table plate at the same level and the operation desk placed stably.

1.3 Operation Desk Model

Table 1-1 Model list of OP073 operation desk

Name	Model	Dimensions (H mm×W mm×D mm)	Remark
System Operation Desk	OP073-S	750mm×700mm×1150mm	With keyboard slot
Auxiliary Operation Desk	OP073-A	750mm×700mm×1150mm	Without keyboard slot

1.4 Operation Desk Dimensions

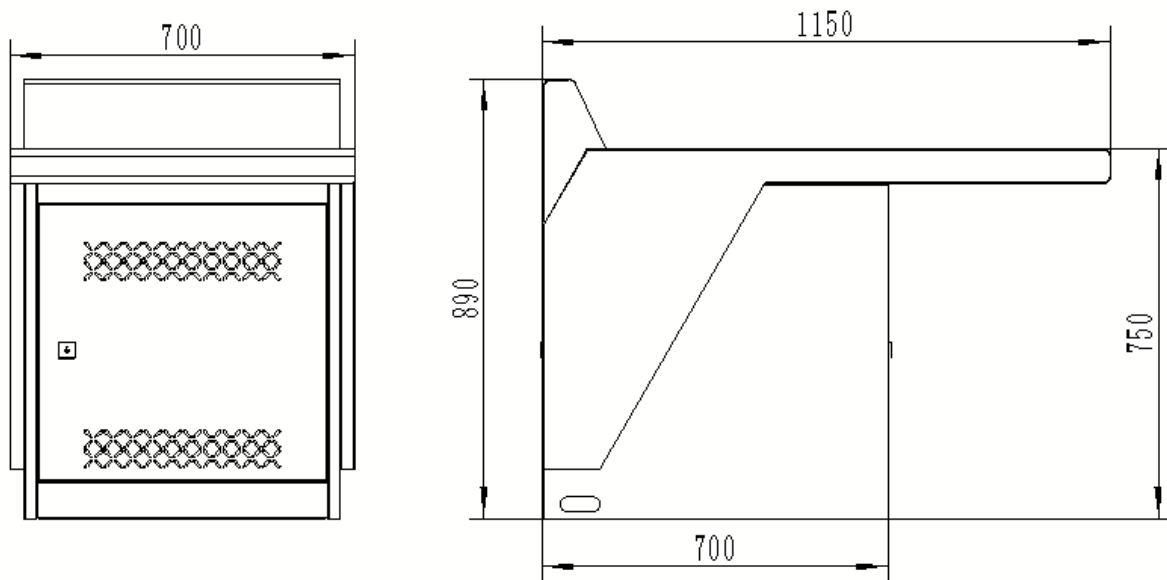


Figure 1-3 Dimensions of operation desk

Section 2 Specification

- Fabrication Material: High-quality rolling steel plate.
- Color: Table board is in light gray color, and base is in deep gray color. Other color configuration can be provided as requested by client.
- Storage and Transportation Environment:
Temperature: (-40~70)°C; Humidity: (5~95)%RH;
- Operating Environment:
Temperature: (5~40)°C; Humidity: (5~85)%RH; Temperature Gradient: ±0.5°C/min
- Design Standard:
 - GB/T 7269 Arrangement, types and basic dimensions for electronic equipment consoles.
 - GB/T 10217 design principle Terminology for structures of electrotechnics and controlling equipment.

Section 3 Safety Precautions

Electric Safety

- Do not operate the installation operation with the power.
- Do not directly contact the component with the electricity.
- When system is operating, do not touch the naked wiring terminal of the power distribution unit.
- Do not directly use the lead to distribute power from the socket in the power distribution unit.

When Transporting

- Gradient<10°.
- Handle with care, avoid rolling and upside down.
- Avoid intensive collision or vibration.
- Avoid using the rolling wheel to transport.
- Pay special attention when lifting with forklift, and do not move the desk at this time.

Protection

- Do not disassemble the package before moving the desk, which means you need to move the desk to the installation field and then disassemble the package.
- Please wear the labor protection article, such as the glove to avoid from being injured.

Section 4 Installation Preparation

4.1 Tools

- Transportation Tools: Forklift or manual plane board trailer.
- Unpacking tools: Steel prier, and hammer with prier.
- Installation Tools: screwdriver, 10", 14", 17" wrench, 5mm Allen wrench.

4.2 Requirements for Ground

Ground should be plane and clean, without requirement for reinforcement.

4.3 Requirements for Packing and Checklist

The unpacking procedures are as follows:

1. Make sure personnel from supply and demand and the package box arrive at the installation field.
2. Disassemble the metal packages on four corners of the package box.
3. Pry up the cover of the package box.
4. Disassemble the side boards of the package box.
5. Take out the encasement list, and check the goods quantity and quality according to the list.
6. Supply and design personnel sign and confirm the result for opening the case.
7. Clean up the package material, and clean the installation field.

Section 5 Installation

5.1 Assembly of Operation Desk

1. Place the operation desk in the designated position according to the layout.
2. Adjust the operation desk so that adjacent desk are aligned and fit.
3. Rotate the stepping foot of various operation desks to make the all table plates on the same level.
4. Reserve splicing holes on the side of each operation desk, and then fasten adjacent operation desks together with the include M8 screws, nuts and gaskets. When splicing, make sure to align the table plates of operation desk.

Tip: the mounting hole cover included in the box can be installed in the splicing hole on the non-splicing side to play the role of sealing and decoration.

5.2 Wiring

1. Lead the power wire, grounding wire and communication network wire, etc., from the wire-in hole into the operation desk. The holes are on the bottom cover plates of the left and right sides of the operation desk.
2. Cables have been connected between wiring terminals, power sockets and switchers before delivery. When the wire-in power supply is a separate group of power supply, connect the wire-in power on the input terminals of the wiring terminal; when the wire-in power is two groups of independent power supply, connect the two groups of power supply on two groups of input terminals of the switcher respectively.
3. As required in the engineering design, connect the control wire to the wiring terminal plate. the wiring method is shown as Figure 5-1.

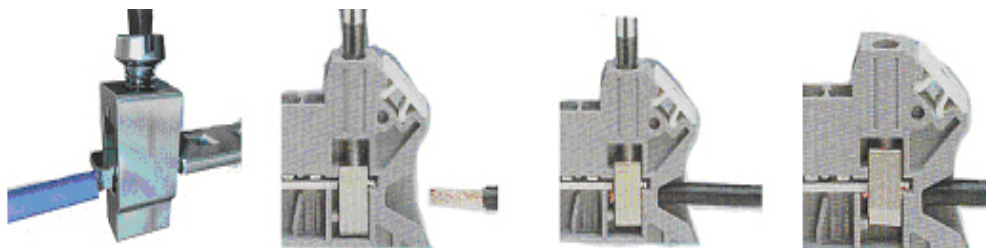


Figure 5-1 Sketch map of wiring method of wiring terminal

4. Fix the grounding wire input from the collective earth plate to the biggest frame on the grounding copper bar, as shown as Figure 5-2.

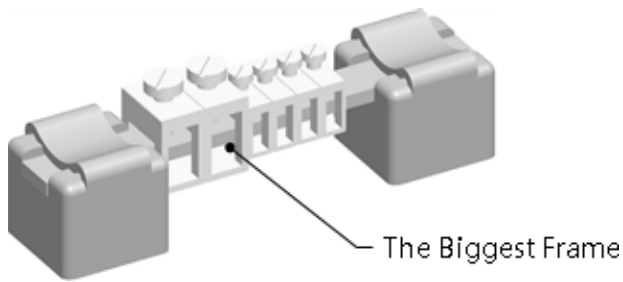


Figure 5-2 grounding copper bar

5.3 Grounding

1. Before the device leaves the factory, the grounding points on the input terminals of power outlets, and switcher have been connected to the grounding copper bar.
2. Before the device leaves the factory, the grounding points on the front and rear doors have been connected to the grounding copper bar.
3. Grounding cable from collective grounding bar must be connected to the biggest frame on the grounding copper bar.



Tip:

The operation desk receives power supply by single table plate, and one single table plate is provided with one grounding copper bar.

Section 6 Revision

Table 6-1 Retrofit list of the version

Document Version	Applicable Product Version	Remarks
V1.0 (20230322)		The first version.