

Jiangxi KMAX Industrial Co., Ltd.	Version Number	Confidentiality Level	Total Pages
	V1.0	High	17

Fun2 Electrical Control VR Instruction V1.0

User and Customer Service Manual

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1. Introduction

1.1 Purpose

This guide is intended to help readers learn how to use this software.

1.2 Context

This software is proposed and developed all by Jiangxi KMAX Industrial Co., Ltd.

1.3 Definition

Term	Explanation
Us	Jiangxi KMAX Industrial Co., Ltd.
zSpace	zSpace refers to zSpace all-in-one computers and laptops with AR and VR capabilities developed by zSpace, Inc.
VR	Virtual reality technology

1.4 Reference

Electrical Control and PLC Application Technology by People's Posts and Telecommunications Press

Electrical Control of Machine Tools by China Machine Press

2. Features

2.1 Feature Highlights

2.1.1 Visualization

This software utilizes 3D simulated model components to realize visualized instruction.

2.1.2 Safety

This software adopts intellectualized technology to realize the structural display of electrical control parts and assembly relations, deepening the understanding of learners.

2.1.3 Special Effects and Animations

Simulated special effects in this software disclose working principles of all components while the breakdown animations display their structural composition.

2.2 Performance

This software can run continuously and stably for 12 hours without any failure.

3. Operation Environment

3.1 Hardware Requirements

zSpace laptops, zSpace300 and other zSpace products with higher specifications.

Performance parameters:

Specifications of zSpace300	
Display	24" HD Display (1920x1080) with zSpace head tracked stereo display technology
Processor	Intel i3
Memory	8 GB DDR4 RAM
Graphics	Radeon Pro WX3100 Embedded GPU
Peripherals	zSpace Stylus, zSpace Eyewear (Passive Stereo glasses and 2D conversion glasses), Keyboard and Mouse

3.2 Software Requirements

This software runs on zSpace all-in-one computers and laptops and with Windows 10 operating system.

4. Getting Started

4.1 Installation

4.1.1 Client Deployment



Double-click the executable file , and install it as prompted.

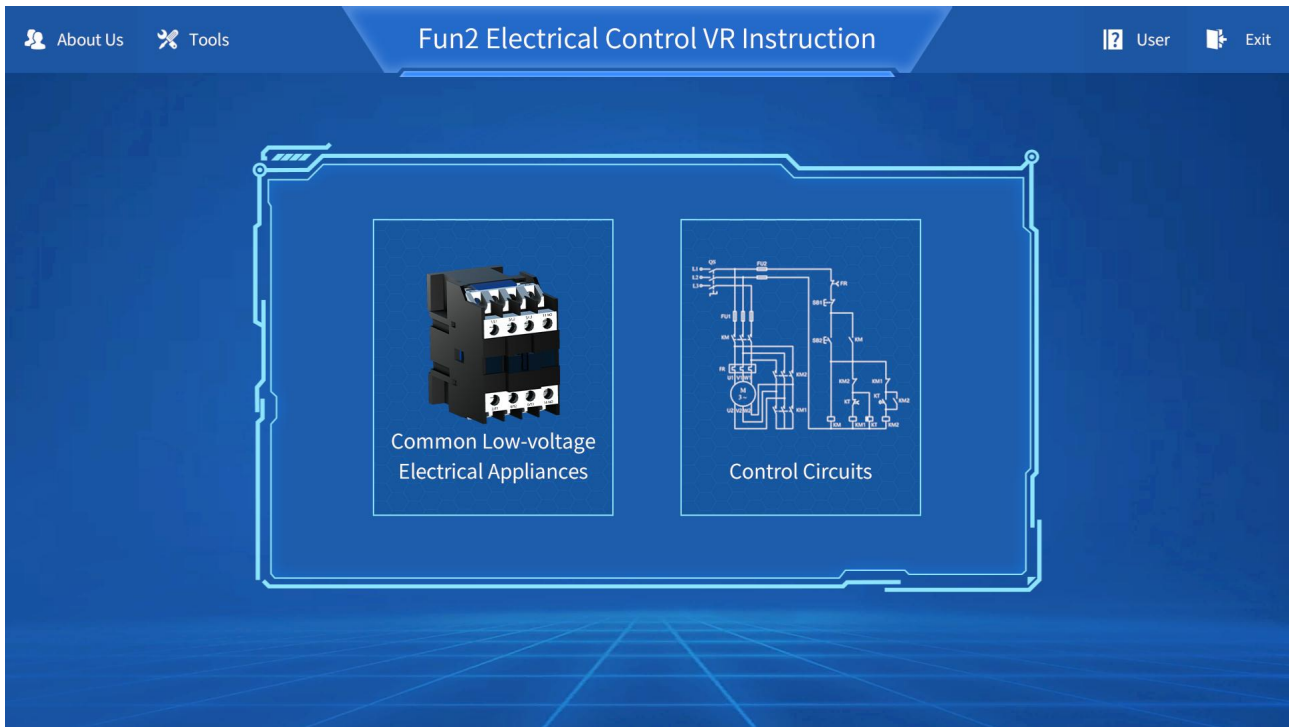
4.1.2 License Registration



After the software is started and a registration window pops up, please enter an activation code issued by Jiangxi KMAX Industrial Co., Ltd. into the product key blank. Click the activation button to activate and use this software.

4.1. How to Interact

4.2.1 Home Page

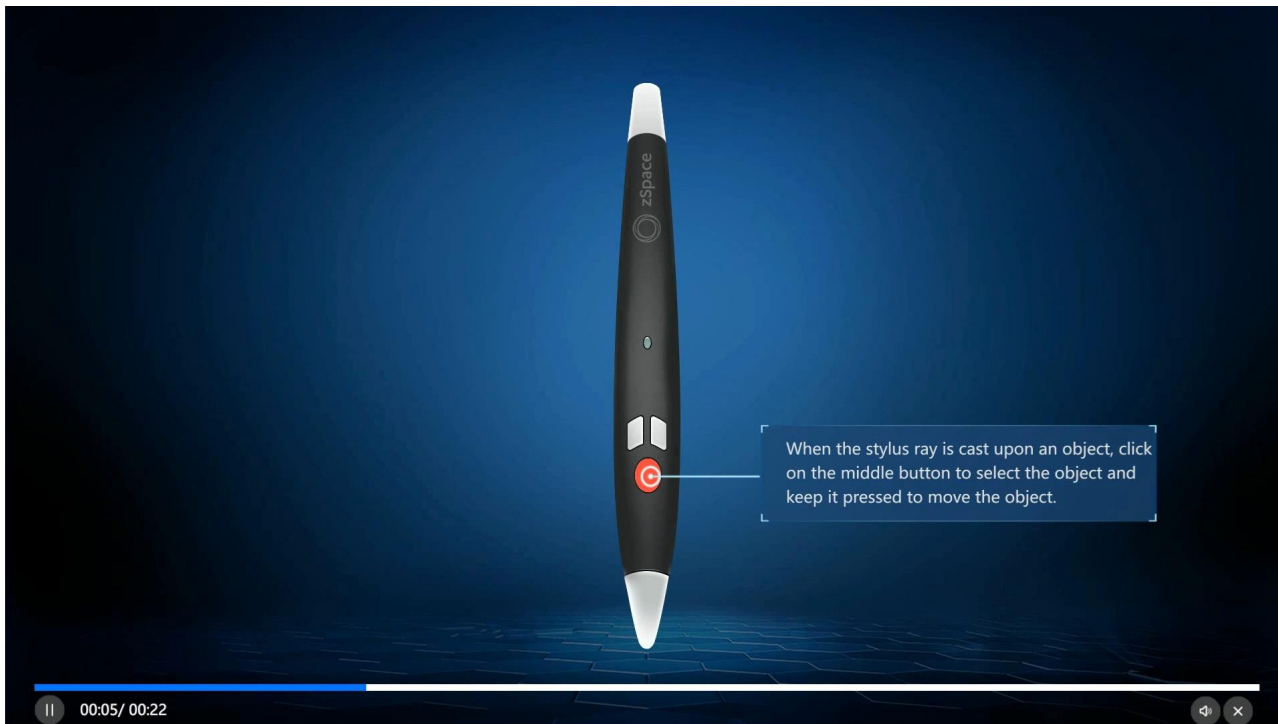


4.2.2 Click  Settings and choose  Tools to set language, stylus ray

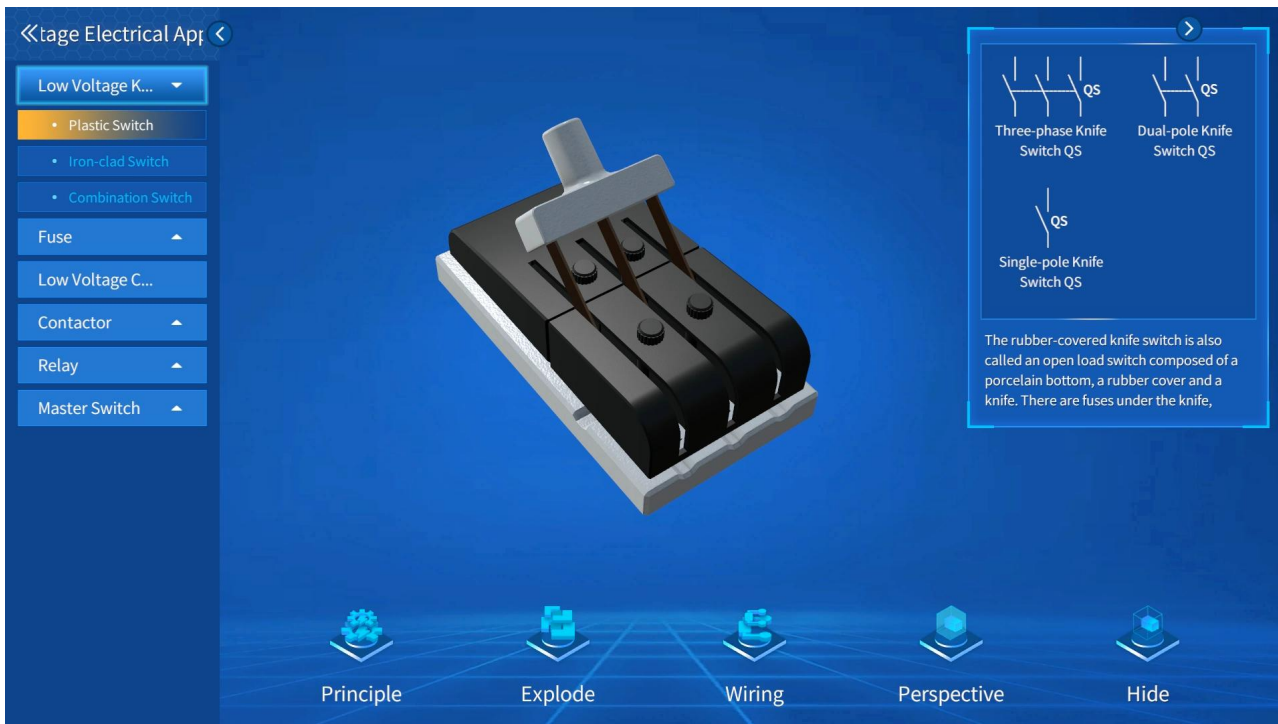
and so on. Click  Exit to exit the software.



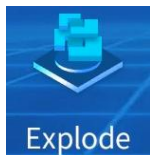
4.2.3 Click  User to view the guide video.



4.2.4 Click to enter Power Units.



4.2.5 Click Principle to view the animation of the working principle of the model.



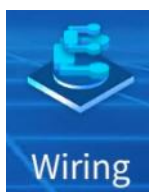
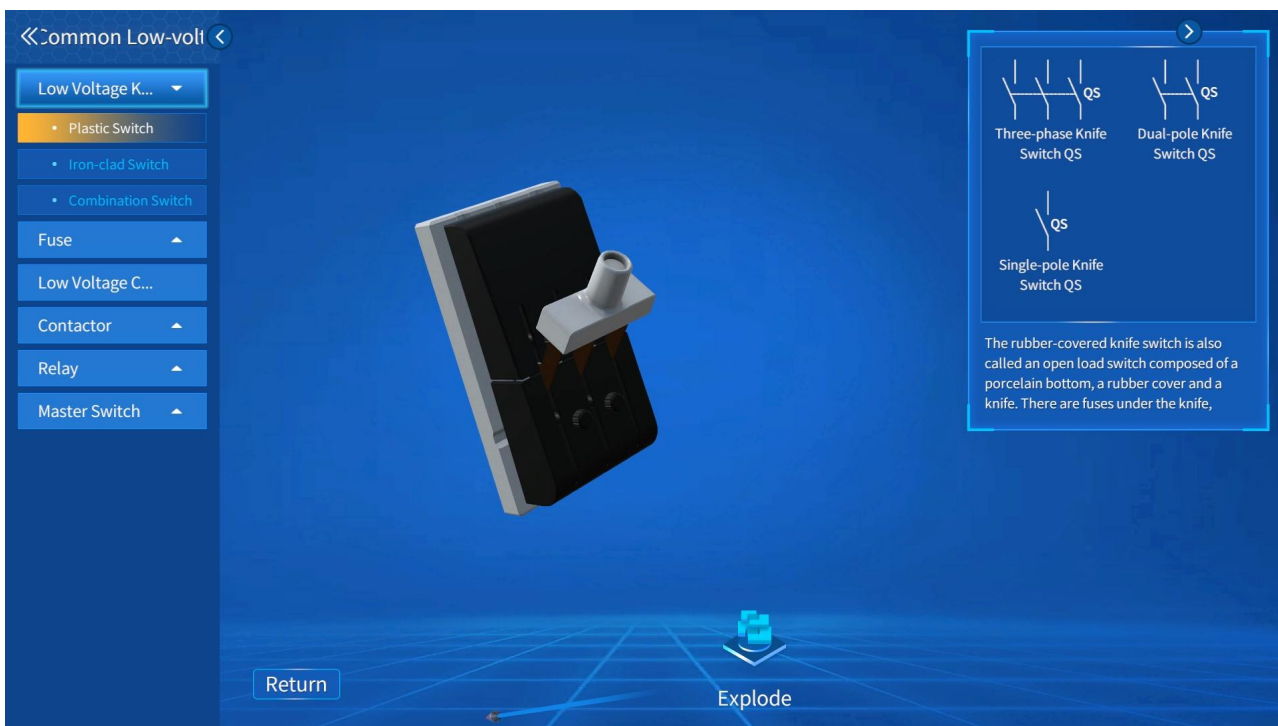
4.2.6 Click **Explode** to explode a unit into multiple parts.



4.2.7 Click **Move** to drag the parts as a whole.



4.2.8 Click **Restore** to return to its initial status after the unit gets exploded.




4.2.9 Click **Wiring** to see names of terminals on the model.




4.2.10 Click **Perspective** to view parts in a perspective view. Continue to click on another part to see it in perspective. When viewing in perspective, click the left button of the stylus pen, the whole unit will restore to its initial state, and at the same time the unit cannot be zoomed in and out.

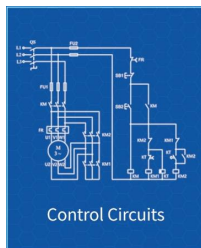




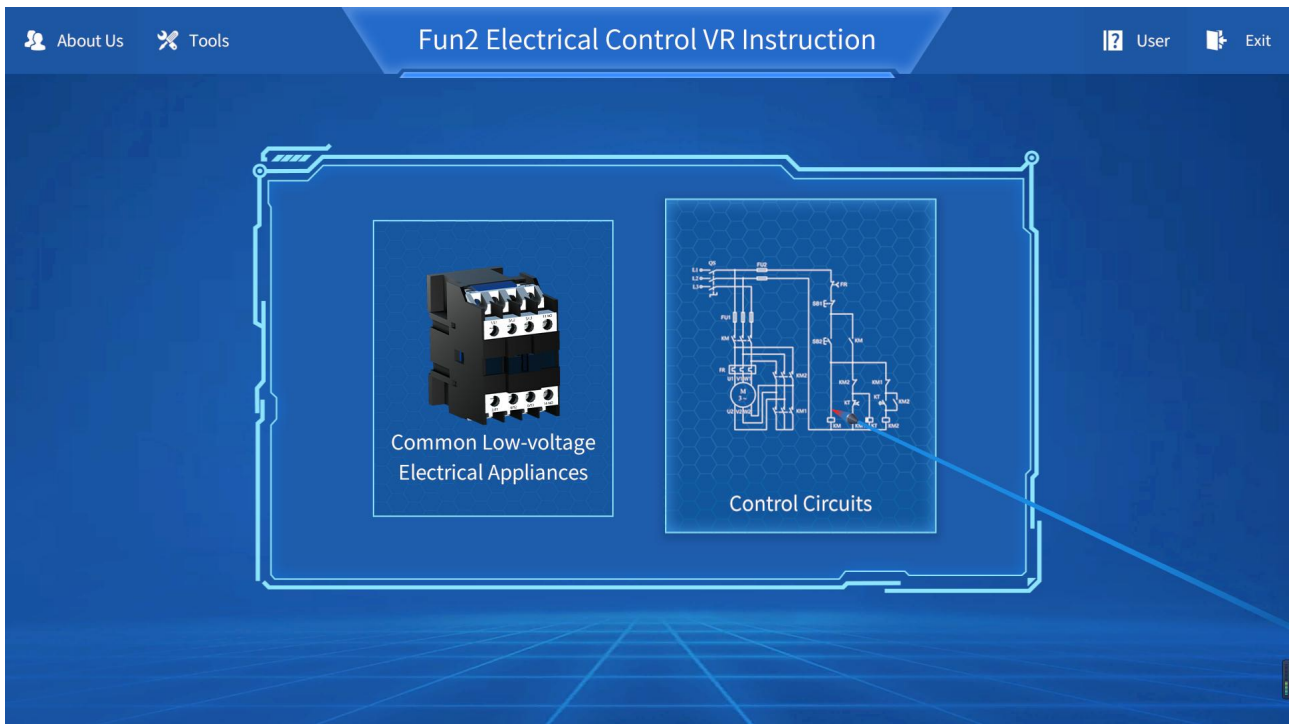
4.2.11 Click  to hide parts. Continue to click on another part to hide it. When hiding parts, click the left button on the stylus pen, the whole unit will return to its initial state, and at the same time the unit cannot be zoomed in and out. The Hide and Perspective View functions can be used together.



4.2.12 Click  on the text panel to collapse it.



4.2.13 Click **Control Circuits** to enter the basic Control Circuits module.



4.2.14 Click **Enter** to enter a specific control circuit; Click **Return** to return to the main interface.

Jogging Forward Control Circuit

Contactor Self-locking Forw...

Self-locking Forward Cont...

Forward Control Circuit w...

Contactor Self-locking Forw...

Forward and Reverse Cont...

Position Control Circuit

Automatic Round-trip Cont...

Sequence Control Circuit

Two-position Control Circuit

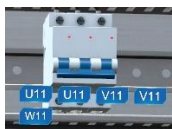
On-delay Timing Control Circuit

Automatic Y-Δ Step-d...

Enter

Return

The jogging forward control circuit is the simplest forward control circuit that uses buttons, fuses, and AC contactors to control the operation of the motor. It is commonly used to control the hoisting motor of the electric hoist and the fast moving motor of the lathe sliding box.



4.2.15 Click the component , and the corresponding wiring interfaces will appear.

Jogging Forward Control Circuit

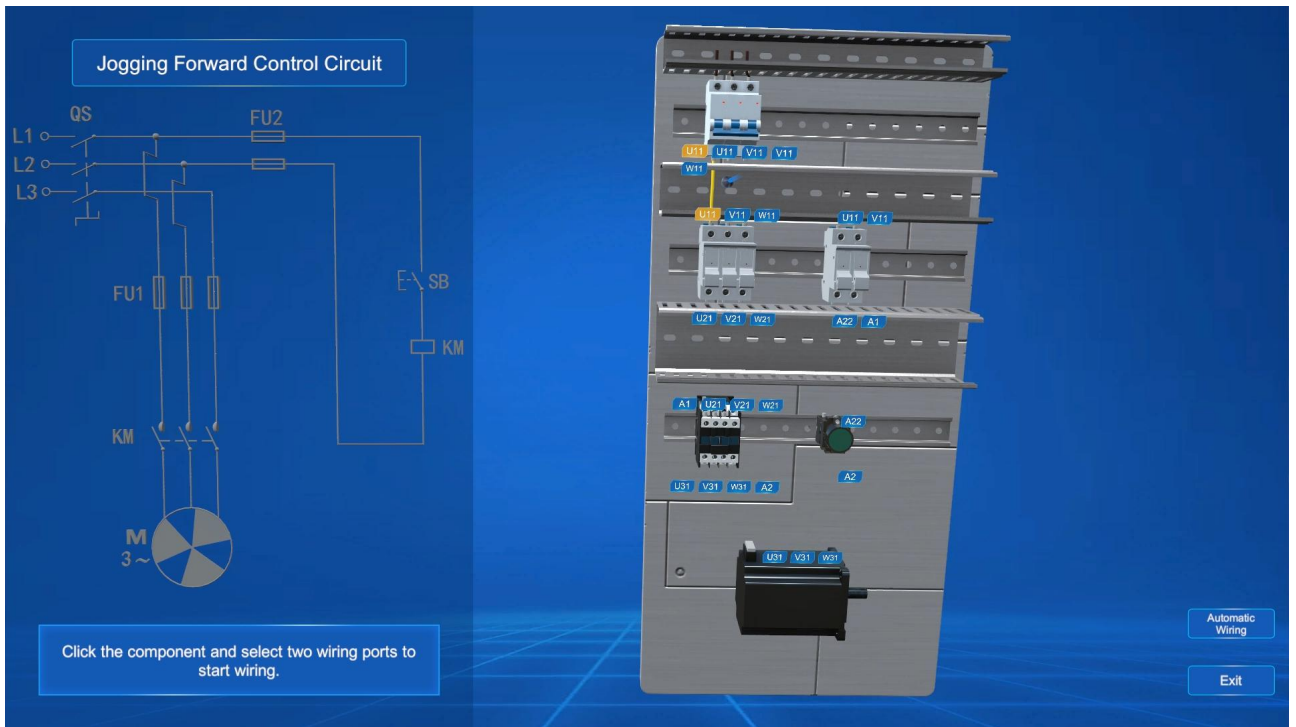
Click the component and select two wiring ports to start wiring.

Automatic Wiring


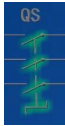
Exit

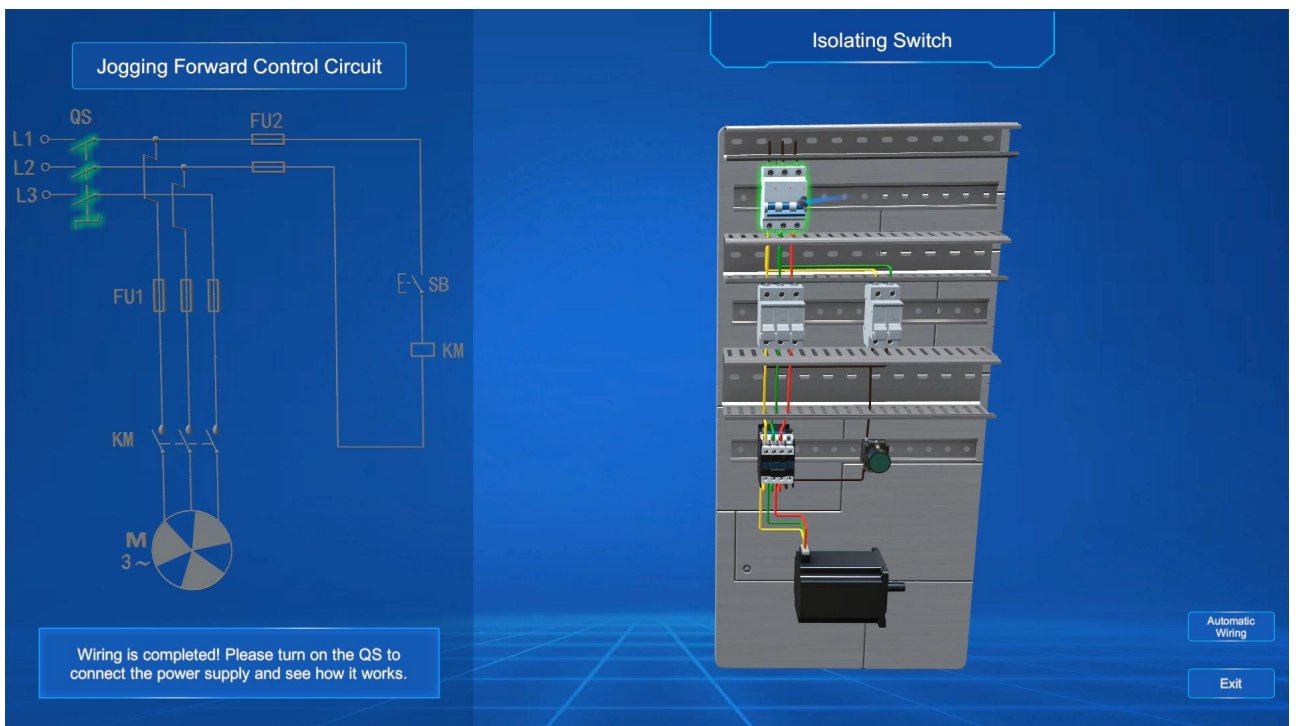


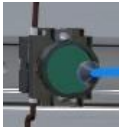
4.2.16 Click two connection ports , and they will automatically get wired.

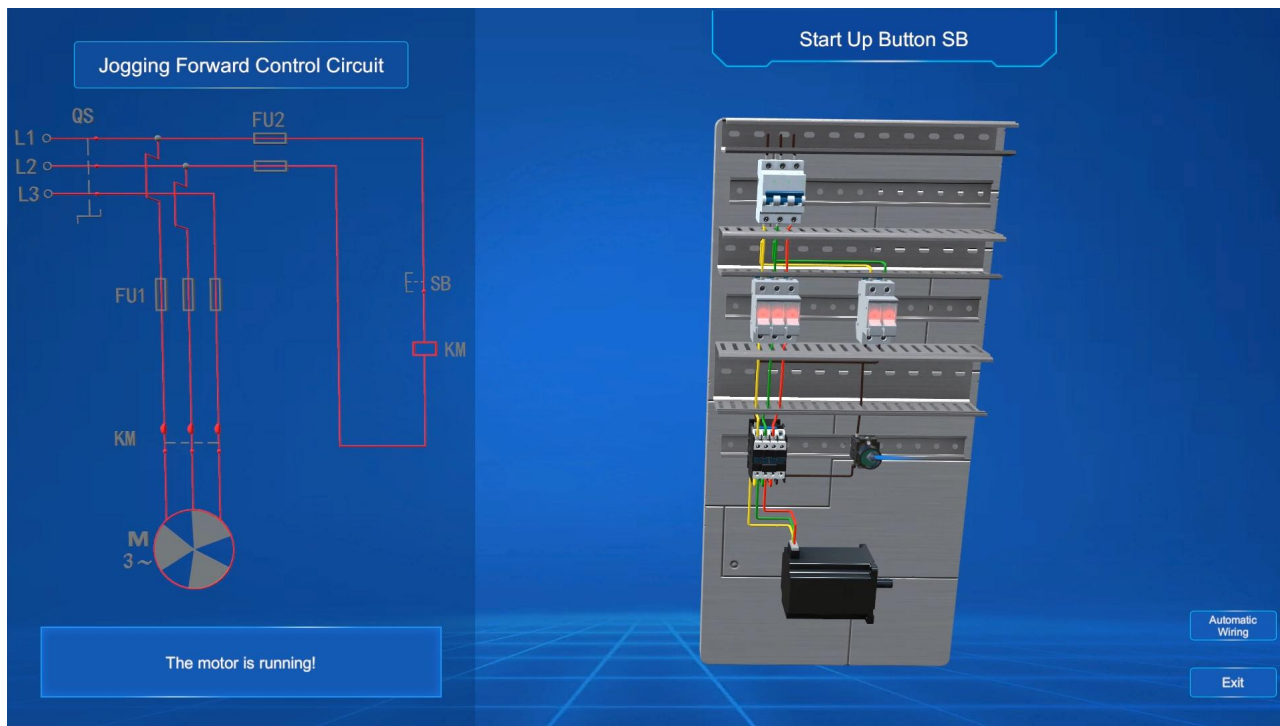


4.2.17 After completing the connection, you can either click the model highlighted

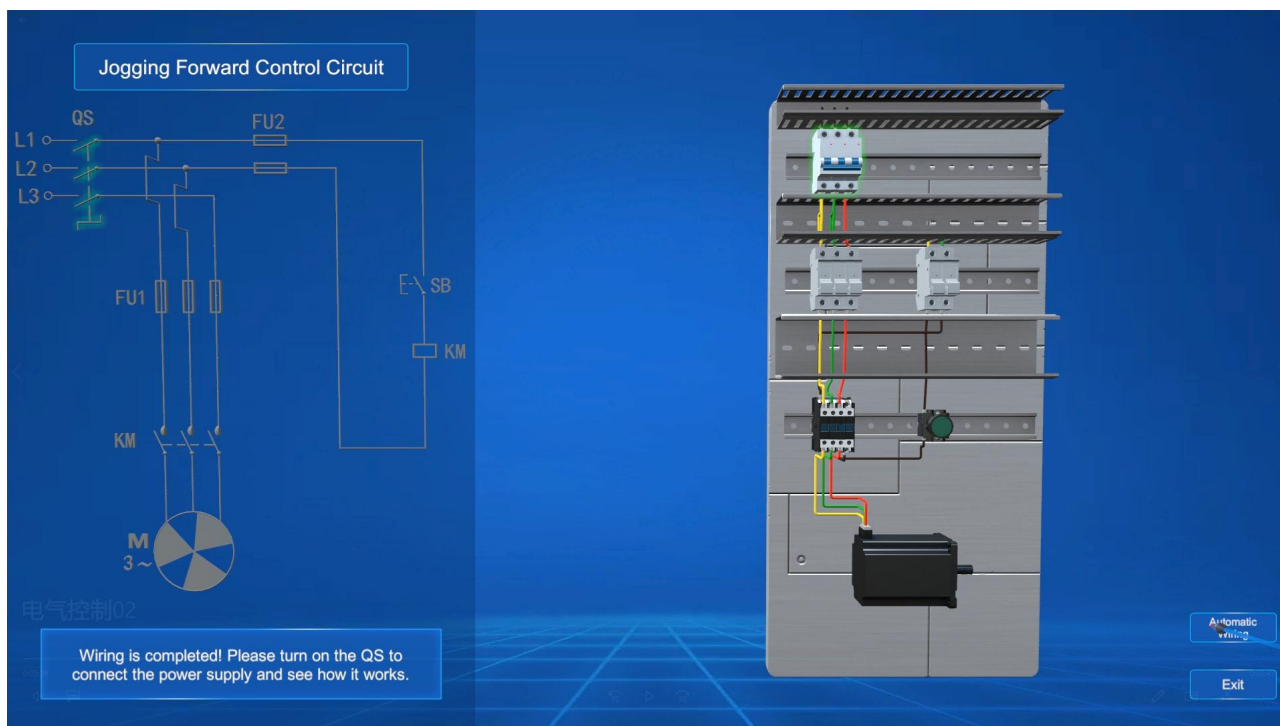
in green  or its electrical symbols in the circuit  to control the circuit.



4.2.18 Click  to let the circuit perform correspondingly.



4.2.19 Click [Automatic Wiring](#) for automatical wiring; click [Exit](#) to return to the control circuit selection interface.



5. Troubleshoot Problems

Problem 1: zSpace stylus ray cast may divert in use. It can be fixed by moving the stylus pen close to the screen.

Problem 2: When an object is moved wherever out of sight and cannot be interacted with, click the left stylus button to restore the placement of objects.

Problem 3: This software can work only after it is registered. So please contact the research center of Jiangxi KMAX Industrial Co., Ltd. to acquire an activation code.

Problem 4: When connected to a second display, if the software screen is not displaying in full screen view, do as follows: turn off the software, right-click the mouse on the desktop to enter the Display settings, and in the Multiple Displays section, select Extend. Designate zSpace the primary monitor and restart the software.