Comparison Between Traditional Arm And RAE2.0 Operation Mode

	TRADITIONAL WORK MODE	R A E 2.0
Robot Learning Time	•Requires a teaching pendant •Requires 3-5 days of learning time	•Move a robots in 5 minutes •Learn the whole system in 1.5 hours
Programming	•Requires electrical engineer to program into the HMI display	• No electrical engineering professionals are required •RAE provides an operator's graphic interface.
Price of I/O Module Expansion	• An expanded I/O module must be purchased from the original factory •Price is relatively high	•RAE IPC provides eight sets of GPIO •Cheaper PC-Base expansion I/O module
Array Pick and Place (Tray)	•Needs to be positioned point by point •Time-consuming and labor-intensive	•Quick positioning and array type setting •20 minutes to complete and test the Tray
I/O Troubleshooting	•Difficult troubleshooting I/O problems	•I/O tabulation through point information and testing •Quick troubleshooting
Palletizing	•Placement planning is required layer by layer •Time consuming	•Graphical pallet positioning and arrangement •Easy robot palletizing setup
Change Of Production Line	• Most clients cannot modify scripts • Using the teaching pendant to write new paths takes a long time	•Modify by copying the path and point •Change the line without program writing
Team Development	•Requires a variety of professionally trained developers	•Diverse system functions •Accessible to everyone •Lower development and import threshold
Maintenance & Handover	• It is harder to replace management and maintenance personnel	• No professional workers are needed •Can be done without a system integrator •Organization and management costs are greatly reduced

No teaching Pendant

Programming Free

No HMI & PLC

USER-FRIENDLY ROBOTIC SYSTEM

- Learn to control the robotic arm in 5 minutes, and 1.5 hours for the whole system
- Command robots without HMI and PLC
- Operates without programming
- Faster production line changeover
- Economical I/O modules price for expansion
- Fully function palletizing interface
- I/O listing and user guide, quick troubleshooting
- 30 minutes for testing and positioning the Tray

4 ADVANTAGES OF RAE

Graphical User Interface

Clear and easy-to-understand graphic diagrams. Specially designed interface for engineers and operators. It uses icons and colors to differentiate functions, greatly improve interface recognition, and reduce learning difficulty and time.

Simplified Operation Path

Uses mobile devices and graphic keys for path setup, can be easily sorted and allows fine-tuning, operates robots quickly without program writing, reduces time spent learning complicated teaching pendants, and provides easy operation.

Graphical Palletizing

Set the pallet and box size and position according to the diagram and automatically generate palletizing scale simulations, eliminating the need for complicated programming and reducing the difficulty and time cost of production line changes.

Quick Tray Setup

Providing flexible settings of tray size and position, the robot motion setting for array pick and place can be completed quickly. Assist in the planning of CNC machining automation.

• Easy Learning

First Jigsaw Puzzle Architecture

Multi-Functional

Programming Free

New Patent

• Easy Graphics

The function block flow of the robots is graphical and can be renamed. Graphics applications use dragging functions and various logical functions. Arrange graphic blocks in sequence according to the robot workflow; no professional background is required, and you can learn to control the robot in five minutes.
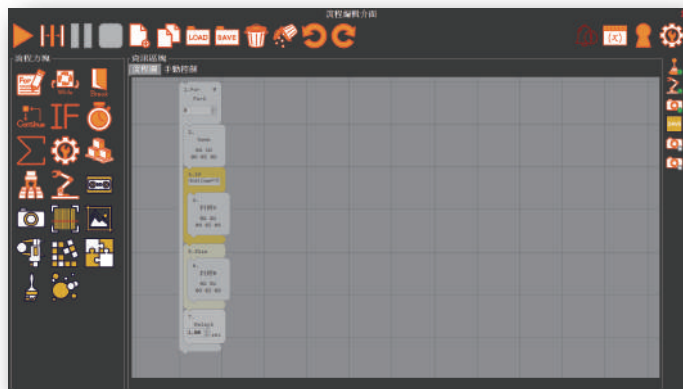
• Easy Path

One-click to generate robot teaching points, and all logical functions are available. There is no need for an electrical engineer to program the path into the HMI to use it. The interface provides two user identities (engineer and operator).

Engineer

Operator

• Easy Palletizing

The world's first visual graph palletizingAutomatically generate pallet and box proportions. Automatically calculate the direction of bearing support. Quick palletizing setup, stack copy, and transpose in just one click
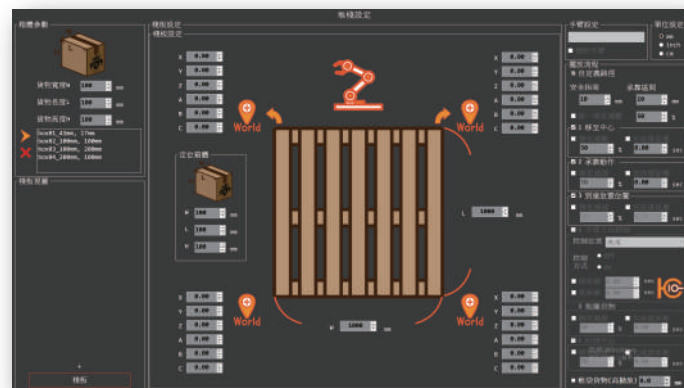
• Easy Tray

Customize your very own machine setup. Regardless of the size, you no longer need to program point by point. With just a few keys, you can complete the tray type and positioning settings.

| 1 | 5 | 9 | 13 |
2	6	10	14
3	7	11	15
4	8	12	16
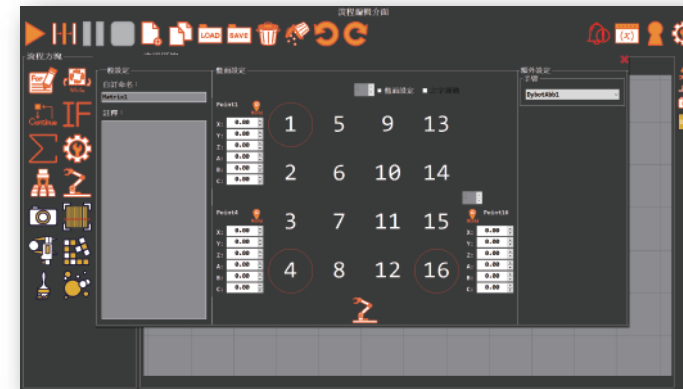
• Easy I/O

I/O communication commands are tabulated. You can remark information on the points in the list and directly test the point switch into action. Say goodbye to table lookup for checking I/O troubleshooting and use communication commands to integrate arm control quickly and conveniently.

• Easy Production Line Change

Change production lines quickly without writing programs. Modify by copying the path and point. It can also add remarks to the function blocks.
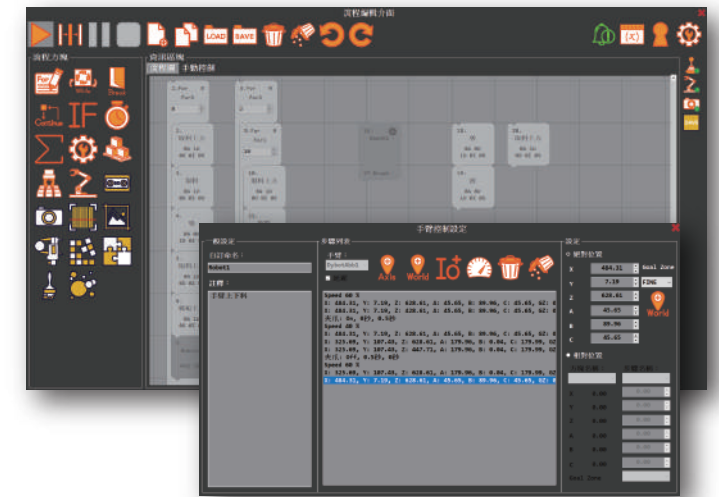
• Easy & Speedy

No HMI and PLC

No Teaching Pendant

Fast Operation

Quick Setup