

ODM System Solution

Model NO. : BioD-I

Flow Rate : According to customers request



Product Introduction

This product is an intelligent platform for automatic dispensing of reagents, which realizes the automated mass production of reagents. The emergence of this system replaces manual dispensing of various reagents and improves work efficiency. Applied to microplate dispensing, kit dispensing, micro reagent dispensing, biological reagent dispensing, etc.

Product Features

1. It can achieve equal or unequal dispensing of 8 different reagents.
2. Up to 0.5% dispensing accuracy, batch dispensing is 30 times that of manual dispensing.
3. Liquid only goes through the hose.
4. 7-inch color LCD screen operation, friendly man-machine interface, simple and convenient operation.
5. The operating program of the robotic arm can be edited to suit reagent boxes of different sizes and shapes.
6. Intelligent calibration function, with online fine-tuning function, can calibrate the liquid volume in real time and improve the accuracy of dispensing.
7. With two-way liquid filling function, it can work in two directions, which is convenient for cleaning the hose, and can also fill the pipeline with reagents before and after dispensing.

Technical Specifications

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|------------------------------------|--|
| Dimension | Standard 221: X axis: 200mm; Y axis: 200mm; Z axis: 100mm |
| Three-axis maximum load | 5kg |
| Program control system | Handheld box teaching method |
| Mobile repeatability | ±0.02mm |
| Filling heads and trays | According to customer requirements |
| Supporting peristaltic pump system | PDS filling system |
| Operating mode | Logical working mode, independent working mode, independent working mode + subsection filling working mode, comprehensive working mode |
| Pump unit | 1-8 |
| Precision | < +0.5% (medium is water) |
| Flow range | MiniPump: 0.0024-190mL/min; HandyPump: 0.0033-365.69 mL/min |
| Speed | 0.1-300rpm |
| Display | Industrial-grade 7-inch color LCD display |
| Three coordinate power supply | AC100V-240V(50Hz/60Hz) |
| Pump unit power supply | AC100V-240V(50Hz/60Hz) |
| Controller Power | 5VDC/2A adapter (standard configuration) |
| Temperature | 5-40°C |
| Relative humidity | 20-80% |

Dimension Drawing(Unit: mm)

