



DP3000-G2

Automated Programming System



DP3000-G2 automated programming system is the second generation of DP3000, which supports CSP programming and different input/output peripherals, like tube, tape, and tray, provides an overall solution for IC programming. DP3000-G2 supports all kinds of IC families, such as EEPROM, NAND/NOR FLASH, MCU, UFS, eMMC...etc. It is able to embed with 6 sets of ProgMaster-S8 programmer or 6 sets of NuProg-S8A programmer to expand up to 48 programming sites, which will keep the high throughput even when handling the high density memory, like NAND FLASH.

Features

Support all IC Families and different Input/Output Peripherals

1. Input/Output: Tube, Tape, and Tray
2. Supported IC: EEPROM, NAND/ NOR FLASH, MCU, UFS, eMMC...etc.
3. Supported IC Package: SOP, SSOP, TSSOP, PLCC, QFN, LQFP, BGA, WLCSP...etc.

High Expansibility

Able to embed up to **six** NuProg-S8A or **six** ProgMaster-S8 to get 48 sites; also available to combine **three** NuProg-S8A with **three** ProgMaster-S8.

Programmer	NuProg-S8A	ProgMaster-S8	Hybrid
Supported IC	UFS/eMMC	ALL IC kinds (Except for UFS)	ALL
Programmer Quantities	Up to 6	Up to 6	3 from each

High Throughput

The system will be able to perform up to 2,500UPH.

Adjustable Socket Actuating Kit

Adjust socket actuating kits make it easier and quicker to switch to different types of socket adaptors according to the socket size. Therefore, you will not need extra socket actuating kits!

Fast & Accurate Positioning

System is equipped with 2 sets of CCD Camera to handle positioning.

Optional Ink Marker for Tape Out

Different colors are available; supports dot, character, and number.

Software Supports NAND Flash Bad Block Skip and Partition Programming

Each programming site functions independently. It only takes 30 seconds to program (P+V) 1Gb NAND FLASH.

Software Supports Work Project

Able to create a programming file directly through Dediware according to your programming demands. It allows you to start programming right after loading the project, which will greatly reduce human errors.

Taiwan Headquarter: 4F, No.7, Lane 143, Xinming Rd., Neihu District, Taipei, Taiwan, R.O.C 114 TEL: 886 - 2 - 2790 - 7932 FAX: 886 - 2 - 2790 - 7916

China Office: Room 518, Building 66, Lane1333, Xinlong Road, Vanke Hongqiao CBD. Min Hang District, Shanghai, P.R.C. 201101

TEL: 86 - 21 - 5160 - 0157

U.S. Office: 209 E Baseline RD, Suite E208 #8, Tempe, AZ, 85283, USA

TEL: +1 - 909 - 274 - 8860

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For more information, please contact: sales@dediprogram.com
www.dediprogram.com

Specification

Pick & Place System	Placement Accuracy Pick & Place Device Throughput	±0.01mm Vacuum Nozzle * 4 Up to 2,500 UPH
Transmission System	X-Y-Z Drive Transmission Resolution Maximum Stroke θ Axis Resolution	High Performance Servo Drive System Ball Screw & Linear Guide Mechanism X axis: ±0.02mm, Y axis: ±0.02mm, Z axis: ±0.02mm X axis: 1155mm, Y axis: 480mm, Z axis: 30mm 0.15°
Input/Output System	Tube In Tube Out Tape In Tape Out Tray In/Out	1. Manual Tube In Loader; capacity: 4 Tubes. 2. Automatic SOP, TSOP Tube Loader; capacity: 30~40 Tubes. Manual Tube Out Loader; capacity: 6 Tubes Electrical Tape Feeder; support 8~32mm tape width. Dual Electrical Tape Feeders, support 8~24mm tape width. Automated Taping Machine; PSA and Heat Sealing; support 8~50mm tape width. 1. Manual Input JEDEC Tray. 2. Manual Output JEDEC Tray. 3. Automatic Tray In/Out Loader; capacity of 25 JEDEC Trays. 4. NG IC Trays.
Vision System	Camera Vision Alignment Vision Accuracy Vision Process Time	1. Fixed CCD: 659 x 494 pixels. 2. Carried CCD: 659 x 494 pixels. IC corner leads ±0.01mm ~ 0.1 sec / unit
Programming System	Programmer Programming Site Support IC IC Package	NuProg-S8A (eMMC/UFS) and/or ProgMaster-S8 (Universal Programmer) Expandable to 48 sockets EEPROM, NAND/ NOR FLASH, MCU, UFS, eMMC...etc. SOP, SSOP, TSSOP, PLCC, QFN, LQFP, BGA, WLCSP...etc.
Marker	Ink Marker	Different color available; support dot (1.5mm ~ 2.0mm), character and number (2mm x 3mm).
Operation Environment	Input Voltage Power Consumption Air Flow Air Pressure	220-240Vac, 50/60Hz 2.2KVA 92 liters/min 0.6 MPa (~6.0 kg/cm ²)
Dimensions (Include Monitor and Alarm LED light)	Main Unit Main Unit+Tube Loader Main Unit+Tape Loader Main Unit+Tray Loader Weight	W x D x H: 1950mm x 1200mm x 1560mm W x D x H: 1950mm x 1920mm x 1560mm W x D x H: 1950mm x 2320mm x 1560mm W x D x H: 1950mm x 1620mm x 1560mm 740 KG
Control System	PC O/S Display Input Devices	Windows 7 Embedded x86 19"LCD Keypad & Mouse