

# DP3000-G3 Plus

Automated Programming System

[www.dediprogram.com](http://www.dediprogram.com)



DP3000-G3 Plus automated programming system is the latest generation of DP3000 series. It is able to support CSP packages as well as small size packages.

DP3000-G3 Plus supports different input/output peripherals, like tube, tape, and tray, to provide an overall solution for IC programming with more advance features.

The system can embed with up to 6 sets of gang Programmers to provide up to 96 programming sites with stable quality & high throughput. Especially fits all high density device, such as eMMC and UFS programming demand.

## Features

### High Throughput

The system will be able to perform up to 3,300 UPH.

### High Expansibility

Able to embed up to six sets of NuProgPlus Series programmer to get up to 96 sites (supports Universal, eMMC, and UFS).

### Support All IC Families

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

### Adjustable Socket Actuating Kit

It makes it easier and quicker to switch to different types of socket adaptors based on each socket size.

### 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.

### Clamp Positioning Check

The system will automatically check if the clamps are installed properly before production to avoid machine/product damage caused by unmanned staff mistakes.

### Support Different Input/Output Peripherals

Input/Output: Tube, Tape, and Tray.

### Auto Teach Feature

1. Proceduralize- Automatically adjust handler's parameters step by step.
2. Digitalized- Automatically adjust the heights of nozzles.
3. Increase the speed of system adjustment.
4. Self-detection Function- Increase the accuracy & stabilities for nozzles' pick and place.

### MES (Manufacturing Execution System)

DediProg handlers can apply various MES protocols via the API, enabling remote monitoring and ensuring fool-proof programming.

### One Click Project Execution (OPRJ)

New software integration included both machine project & programming project to avoid any human setting error.

### IC Marking Functions

#### Provide a variety of labeling methods

1. Ink Marker supports dot, character, or number.
2. Laser Marker supports precise character marking.
3. Label Printer supports QR Code and barcode.
4. Label Feeder automatically supplies labels to IC for identification.

### IC Inspection

Provide 2D and 3D inspection capabilities to detect pin failures in SOP, QFP, QFN, and BGA packages.

<b>Pick &amp; Place System</b>	Placement Accuracy	±0.01mm
	Pick & Place Device	Vacuum Nozzle x 4
	Throughput	Up to 3,300 UPH
<b>Transmission System</b>	X-Y-Z Drive	High Performance Servo Drive System
	Transmission	Ball Screw & Linear Guide Mechanism
	Resolution	X axis: 0.001mm, Y axis: 0.001mm, Z axis: 0.001mm
	Maximum Stroke	X axis: 1155mm, Y axis: 480mm, Z axis: 30mm
	θ Axis Resolution	0.1125°
<b>Input/Output System</b>	Tube In	Manual Tube In Loader; capacity: 4 Tubes
	Tube Out	Manual Tube Out Loader; capacity: 6 Tubes
	Tape In	Electrical Tape Feeder; support 8~44mm tape width Dual Electrical Tape Feeders, support 8~24mm tape width
	Tape Out	Automated Taping Machine; PSA and Heat Sealing; Support 8~44mm tape width; up to 32mm carrier tape depth
	Tray In/Out	1. Manual Input JEDEC Tray 2. Manual Output JEDEC Tray 3. Automatic Tray In/Out Loader; capacity of 25 JEDEC/Non JEDEC Trays 4. NG IC Trays
<b>Vision System</b>	Camera	1440 x 1080 (1.6M Pixels)
	Vision Alignment	IC corner leads
	Vision Accuracy	±0.01mm
	Vision Process Time	~0.03sec/unit
<b>Programming System</b>	Programmer	NuProgPlus-S8-E x 6 or NuProgPlus-S16-E x 6
	Programming Site	Expandable up to 96 sockets
	Support IC	EEPROM, NAND/ NOR FLASH, MCU, eMMC, and UFS, etc.
	IC Package	SOP, SSOP, TSSOP, PLCC, QFN, LQFP, BGA, and WLCSP, etc.
<b>Marking/Labeling System</b>	Laser Marker	Characters with a height greater than 0.3mm.
	Ink Marker	Different color available; support dot (1.5~2.0mm), character and number (2mm x 3mm)
	Label Printer	4x4~10x10mm Label; prints QR Code, Data Matrix, Barcode, String
	Label Feeder	3x3~10x10mm Label
<b>Operation Environment</b>	Input Voltage	200±15% Vac, 40-60Hz
	Power Consumption	3.3kVA
	Air Flow	94liters/min
	Air Pressure	0.6MPa (~6.0kg/cm <sup>2</sup> )
<b>Dimension (W x D x H)</b> (Monitor Wide Opened and Alarm LED light)	Main Unit (MU)	2200 x 1300 x 1700 mm
	MU+Tape Loader	2200 x 2150 x 1700 mm
	MU+Tray Loader (Front)	2200 x 1900 x 1700 mm
	MU+Tray Loader (Back)	2200 x 1900 x 1700 mm
	MU+Tray Loader (F+B)	2200 x 2450 x 1700 mm
	Weight	840kg
<b>Control System</b>	PC O/S	Windows 10 IOT
	Display	19"LCD
	Input Devices	Keypad & Mouse

Specifications are subject to change without notice

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