Data I/O

EFFICIENT.

RELIABLE.

AFFORDABLE.

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DATA I/O CORPORATION

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PSV5000

The PSV5000 is the cost effective entry point for high performance automated device programming. The PSV5000 delivers trusted performance, flexibility, & reliability at an affordable price.

Efficient: *Designed for optimum performance & flexibility in a compact footprint*

FAST PROGRAMMING WITH EASY CHANGEOVER

- Up to 1300 parts/hour

- Scalable 1-6 FlashCORE III programmers (4 to 24 sockets)

- Scalable 1 to 5 LumenX programmers (1to 40 sockets)

- Ideal for first time automation

FLEXIBLE OPTIONS

- Integrated media options

- Fiber laser marking

- Small parts down to 2mm x 3mm

- Large parts up to 42.5 mm x 42.5mm

OPTIMIZED ALGORITHMS & UNIVERSAL DEVICE SUPPORT

- Universal device support on FlashCORE III

- Ultra-fast programming for eMMC and UFS with TurboBoost for LumenX

Reliable: *Engineered for highest quality programming, uptime, & production yield*

HIGHEST QUALITY PROGRAMMING RESULTS

- HIC adapters for highest programming yield

- Value added software

INTELLIGENT SYSTEM DESIGN & INTEGRATION

- Proven pick & place head, programming engine & handling software

INTEGRATED VISION SYSTEM FOR PRECISE PLACEMENT

- +/- 30 micron for repeatable precision placement

- Support for small parts

Affordable: *Developed to deliver high quality automated programming for the lowest cost per programmed device*

LOWEST TOTAL COST

- Significantly reduce labor cost

- Save >3x cost per programmed part

- Maximum socket density minimizes floor space and enables quick scaling as production ramps

INVESTMENT PROTECTION

- Works with existing FlashCORE & LumenX adapters & algorithms

- Growing support for LumenX ensures your investment is protected now and in the fututre

GLOBAL SERVICE & SUPPORT

- Local service, engineering & support

- Regional spare parts

DEVICE HANDLING SYSTEM

- **Throughput:** Handler rated up to 1300 devices per hour
- **Placement Accuracy:** ± .02mm
- **Pick-and-Place Method:** Single-probe stepper actuated z-motion with servo-drive theta (rotation axis)
- **Probe Stroke:** 50mm (max)
- **Alignment:** Upward looking camera
- **Regulatory Compliance:** CE Compliant, RoHs, WEE

- **System Software::** TaskLink for Windows, CH700, Windows 10
- **Frame Dimensions:** 1290mm D x 870mm W x 1520mm H (not including media I/O)
- **Shipping Dimensions:** 1310mm D x 930mm W x 1760mm H (not including media I/O
- **Net Weight:** 450kg (992 lbs)
- **Shipping Weight:** 505kg (1212 lbs)

I/O MEDIA OPTIONS

Any combination of input/output media I/O

- **Tape Input:** 12mm - 44mm
- **Tape Output:** 8 mm - 44mm (adjustable)
- **Tray Feeder Input/Output:** Supports up to 20 JEDEC Trays
- **Manual Tray:** Available without any special tooling
  Supports up to 2 static trays
  Supports 1 reject tray
- **Tube Input/Output**
- **Reject Bin**

VALUE ADDED SOFTWARE

- **Serial Number Server**
- **Automotive Performance PAK**
- **NAND Flash Bad Block Management**
- **Command Line Interface (LumenX)**
- **ConneX® Smart Programming Software**

DEVICE MARKING OPTION

- **Laser Marker:** Fiber laser marking
  Power: 0 - 10 Watts
- **Ink Dot Marking** Marks parts as small as 4mm x 4mm

ADDITIONAL OPTIONS

- **Vision:** 2D tape-out inspection
- **Ionizers:** Integrate up to 3 ionizers
- **Barcode Scanner**

PROGRAMMING ENGINE, ADAPTERS & DEVICE SUPPORT

Programmer:
- **FlashCORE III**
- **LumenX with TurboBoost**

Socketing Technology:
- **Standard burn-in sockets** (typically 5,000 - 10,000 insertions per socket)
- **High Insertion Count Sockets** (HIC) for BGA, TSOP, QFP (typically 250,000 insertions per socket)

Package Support:
PLCC, SOIC, SON, WSON, SSOP, CSP, BGA, uBGA and FPGA, QFP, TQFP, TSOP, PoP, DIP and more

Universal Device Support:
- **FlashCORE III** Flash Memory (NOR, NAND, MCP, MMC, e.MMC, SD, MoviNAND, OneNAND, iNAND, Serial Flash, EEPROM, EPROM and more), Microcontrollers and Logic devices (CPLD, FPGA's, PLD's) and more
- **LumenX with TurboBoost** eMMC, UFS, SD, SPI NOR, Secure Elements, Secure Microcontrollers with support for additional device technologies in process

Device Programming & Testing:
Program, continuity, checksum, blank check, mis-insertion, test, verify, backwards device, two pass verify, ID check, illegal bit-check

SUPPORT OPTIONS & SERVICE

- **PSV5000 Basic Spares Kit**
- **PSV5000 Supplemental Spares Kit**
- **PS- FlashCORE III Spares Kit**
- **Operator Training**
- **Extended Service Contracts:** The first year of support is included in the system purchase price and can be extended via extended service support renewal. Data I/O offers a suite of options to cover both hardware and system software (consumables are not included).

REQUIREMENTS

- **Input Voltage:** 208-240 VAC, 50/60 Hz, 1 PHz 10 Amps Max
- **Operating Temperature:** 55°F to 86°F (+13°C to + 30°C)
- **Humidity:** 35% to 90% RH Non-Condensing
- **Air Pressure:** 80psi (5.5 bar)
- **Air Flow:** 6 SCFM (max)

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