Data I/O

PRODUCTIVE.

RELIABLE.

AFFORDABLE.

PSV3500

The PSV3500 is the cost-effective entry point for high-quality automated device programming for low volume applications.

Productive: *Ideal for first time automation*

AUTOMATED PROGRAMMING WITH EASY CHANGEOVER

- Up to 700 parts/hour

- Supports 2 FlashCORE III programmers (8 sockets)

- Supports 1 LumenX programmer (8 sockets)

FLEXIBLE OPTIONS

- Integrated media options

- Fiber laser & ink dot marking

- Parts down to 2 mm x 3 mm

- 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 on 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

Affordable: *High quality automated programming for the lowest cost per device*

LOWEST TOTAL COST

- Significantly reduce labor cost

- Save on the total cost per programmed part

INVESTMENT PROTECTION

- Works with existing FlashCORE & LumenX adapters & algorithms

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

GLOBAL SERVICE & SUPPORT

- Local service, engineering & support

- Regional spare parts

DATA I/O CORPORATION

- Redmond, WA
- www.dataio.com
- info@dataio.com
- +1 800-3-DATAIO

DEVICE HANDLING SYSTEM

- **Throughput:** Handler rated up to 700 devices per hour
- **Placement Accuracy:** ± .02 mm
- **Pick-and-Place Method:** Single-probe stepper actuated z-motion with servo-drive theta (rotation axis)
- **Probe Stroke:** 50 mm (max)
- **Alignment:** Upward looking camera
- **Regulatory Compliance:** CE Compliant, RoHS, WEEE

- **System Software:** TaskLink for Windows, CH700, Windows 10
- **Frame Dimensions:** 1290 mm D x 870 mm W x 1520 mm H (not including media I/O)
- **Shipping Dimensions:** 1310 mm D x 930 mm W x 1760 mm H (not including media I/O)
- **Net Weight:** 450 kg (992 lbs)
- **Shipping Weight:** 550 kg (1212 lbs)

I/O MEDIA OPTIONS

Any combination of input/output media I/O

- **Tape Input:** 8 mm - 56 mm
- **Tape Output:** 8mm - 44 mm (adjustable)
- **Tray Feeder Input/Output:** Supports up to 20 JEDEC Trays
- **Manual Tray:** Available without any special tooling
- **Tube Input**
- **Reject Bin**

VALUE ADDED SOFTWARE

- **Automotive Performance PAK**
- **NAND Flash Bad Block Management**
- **Serial Number Server**
- **ConneX® Service Software**
- **LumenX Software with:**
  VerifyBoost license available for UFS
  Command Line Interface

DEVICE MARKING OPTION

- **Fiber Laser Marker:** Mark size as small as 1 mm x 1 mm
- **Power:** 0 - 10 Watts
- **Ink Dot Marking:** Marks parts as small as 4 mm x 4 mm

ADDITIONAL OPTIONS

- **2D Tape-out Inspection**
- **Integrated Ionizers**
- **Barcode Scanner**

PROGRAMMING ENGINE, ADAPTERS & DEVICE SUPPORT

Programmer:
- **FlashCORE III**
- **LumenX®**

Socketing Technology:
- **Standard burn-in sockets** (typically 5,000 - 10,000 insertions per socket)
- **Medium Insertion Count (MIC)** for BGA, QFN, QFP, SOP (50,000 insertions per socket)
- **High Insertion Count Sockets** (HIC) for BGA, TSOP, QFP (typically 100,000 to 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®:** eMMC, UFS, SD, microcontrollers, and SPI NOR 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

- **PSV3500 Basic Spares Kit**
- **Spares Kit for PSV Options**
- **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, Single-phase 10 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)