

Velocity. Versatility. Value.

The world's premiere automated programming system with the speed, flexibility and fast changeover to handle any job at the lowest total cost of ownership



Velocity.

Engineered for speed

✓ Optimized Handler

- Up to 2000 parts/hour
- SSD for fast file download
- Dual pick & place heads

✓ Fast Changeover

- Zero mechanical changeover with concurrently installed options
- Fast and simple job teach with **NexTeach Pro**
- Ergonomic design for easy access to programmers

Optimized Algorithms & Universal Device Support

- Universal device support on FlashCORE III
- Ultra-fast programming for eMMC and UFS with

TurboBoost for LumenX

Versatility.

Designed for ultimate flexibility and zero changeover

✓ Small Device Handling

- 1.5mm x 1.5mm

✓ Highest Socket Density

- Up to **24 FlashCORE** programmers for **96 sockets**
- Up to **14 LumenX** programmers for **112 sockets**

✓ Flexible Options

- Concurrently installed media options
- Fiber laser marking, 3D coplanarity, 2D tape-out inspection & integrated ionizers for highest quality

Value.

Unprecedented capability, quality & investment protection for customers

✓ Lowest Total Cost

- 1 PSV7000 does the work of 2 or more competitive systems
- Maximum socket density
 minimizes floor space and enables
 quick scaling as production ramps

✓ Investment Protection

- Works with existing FlashCORE & LumenX adapters & algorithms
- LumenX supports the latest Flash technologies ensuring your investment is protected
- LumenX is field upgradeable to support UFS

✓ Global Service & Support

- Local service, engineering & support
- Regional spare parts





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Device Handling System

• Throughput: Handler rated up to 2000 devices per hour

 Placement Accuracy: ±.03mm

Pick-and-Place Method: 2 single vacuum nozzles

Component Range: 1.5mm x 1.5mm to 32mm x 32mm

Probe Stroke: 50 mm (max)

Alignment: Alignment-on-the-flay (laser based) TaskLink for Windows, Data Management **System Software:** Software (DMS), AH700, Windows 10

Regulatory Compliance: CE Compliant, RoHs, WEEE

Frame Dimensions:

1280mm D x 1250mm W x 1500mm H (not including media I/O)

Shipping Dimensions:

1534mm D x 1504mm W x 1754mm H (not including media I/O

350kg (771 lbs) **Net Weight:** 500kg (1102 lbs) Shipping Weight:

Positioning System

X-Y Drive System: Servo-driven belt drive

X-Y Axis Resolution: ± .001mm using linear encoders

Theta-axis Resolution: .072° servo drive

X-Y Encoder Type: linear/rotary dual encoder

Z-drive System: stepper belt-drive Theta Drive System: servo motor

I/O Media Options

Any combination of input/output media I/O

8mm - 56mm Tape Input:

Tape Output: 8 mm - 56mm (adjustable)

Dual Tray feeder Input/Output: Supports up to 20 JEDEC Trays

Manual Tray: Available without any special tooling

• Tube Input and Output: Available with special tooling

Reject bin

Device Marking Option

Solid state pulsed fiber laser marking for alpha Laser Marker: numeric / graphic / 2D bar-code laser mark up to 28mm x 28 mm mark area

0 - 10 Watts Power:

Additional Options

• Vision: 3D Coplanarity Vision System 2D tape-out inspection Vision: • **Ionizers:** Integrate up to 2 ionizers

Barcode Scanner

• **NexTeach Pro:** Z-Laser measurement & 2D Vision Alignment

Support Options & Service Spares

PSV7000 Basic Spares Kit

PSV7000 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 covers both hardware and system software (consumables are not included).

Value Added Software

Serial Number Server

Automotive Performance PAK

NAND Flash Bad Block Management

Data Management Software Suite (LumenX only)

Job Composer for LumenX

ConneX® Smart Programming Software

Programming Engine, Adapters & Device Support

Programmer

FlashCORE III

Lumen^(r)X 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)

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 and SPI NOR with support for additional device technologies in process

Package Support

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

Device Programming & Testing

Operating Temperature

• 55°F to 86°F (+13°C to + 30°C)

Program, continuity, checksum, blank check, mis-insertion, test, verify, backwards device, two pass verify, ID check, Illegal bit-check

Requirements

Electrical/Power

Input Voltage: Single-phase 220V **Input Line Frequency:** 50-60 Hz

Power Consumption: 1.5 KVA

Compressed Air Usage

Humidity

• 35% to 90% RH Non-Condensing

• Air pressure: 80psi (5.5 bar) Air flow: 6 SCFM (max)

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