

the lowest total cost of ownership.



VELOCITY.



VERSATILITY.



VALUE.

Velocity: Engineered for speed

OPTIMIZED HANDLER

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

FAST CHANGEOVER

speed, flexibility and fast changeover to handle any job at

- Zero mechanical change over 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
- 4.5x faster read speeds for UFS devices with VerifyBoost

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 self-monitoring 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

DATA I/O CORPORATION

- Redmond, WA
- www.dataio.com
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DEVICE HANDLING

• **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:** 50mm (max)

• **Alignment:** Alignment-on-the-flay (laser based)

• System Software: TaskLink for Windows, LumenX software, 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:** 1900mm D x 1600mm W x 1600mm H

(not including media I/O

Net Weight: 350kg (771 lbs)
 Shipping Weight: 765kg (1686 lbs)

POSITIONING SYSTEM

X-Y Drive System: Servo-driven belt drive
 X-Y Axis Resolution: ± .001mm using linear
 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

VALUE ADDED SOFTWARE

Any combination of input/output media I/O

• Tape Input: 8mm - 56mm

• **Tape Output:** 8mm - 56mm (adjustable)

Dual Tray Feeder

I/O MEDIA OPTIONS

Input/Output: Supports up to 20 JEDEC Trays
 Manual Tray: Available without any special tooling

Supports up to 2 static trays

Tube Input/Output:

Reject Bin

Serial Number Server

Automotive Performance PAK

NAND Flash Bad Block Management

Command Line Interface (LumenX)

ConneX® Service Software

LumenX Software with:

TurboBoost standard with v2.0 and higher

VerifyBoost license available

DEVICE MARKING OPTION

• Laser Marker: Solid state pulsed fiber laser marking for alpha numeric / graphic / 2D bar-code laser mark up

numeric / grapnic / 2D bar-code laser mark t

to 28mm x 28 mm mark area

Power: 0 - 10 Watts

• Ink Dot Marking: Supports dot marking for parts as small as 4mm x • NexTeach Pro:

4mm and various colors

ADDITIONAL OPTIONS

Vision: 3D Coplanarity Vision System
 Vision: 2D tape-out inspection
 Ionizers: Self-monitoring lonizer

Barcode Scanner

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

PROGRAMMING ENGINE, ADAPTERS & DEVICE SUPPORT

Programmer:

- FlashCORE III
- LumenX® with TurboBoost speed standard and VerifyBoost license

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 250,000 insertions per socket)

Package Support:

PLCC, SOIC, SON, WSON, SSOP, CSP, BGA, uBGA and FPGA, QFP, TQFP, TSOP, PoP, DIP, SD/mini, SD/micro, SD card 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 and VerifyBoost eMMC, UFS, SD 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

- 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 contracts. Data I/O offers a suite of options to cover both hardware and system software (consumables are not included).

REQUIREMENTS

• Input Voltage: Single-phase 220V

Input Line Frequency: 50-60 Hz
 Power Consumption: 1.5 KVA

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)

