



# SP500X SCANPRINTER

## Revolutionizing logistics efficiency

The SP500X ScanPrinter is a unique wearable scan-and-print solution that integrates 2D imaging, inkjet printing and wireless communication in one device. It's designed to create a revolution in high-volume logistic operations that use manual scanning and labeling to sort packages. With its integrated printer and Wi-Fi, the SP500X is truly mobile—you can quickly scan and print directly on packages anywhere in your facility, all while keeping both hands free.

### Patented technology that eliminates paper labels

The SP500X, using patented technology from HP, is ideal for warehousing, package delivery and logistics. It offers a robust, easy-to-use and high-performance printing solution that prints directly on packages or other surfaces – eliminating the cost, hassle and mislabeling errors of printed labels.

### High speed scanning + extended performance

The lightweight, hand-mounted SP500X can complete more than 1,250 scans and prints per hour, scanning and printing in just two seconds. It uses a lithium-ion battery delivering up to 6,000 scans and prints per charge, and its custom print cartridges can output thousands of prints. The battery is warm-swappable, to maintain a Wi-Fi connection and minimize downtime.

### Easy integration with existing IT

Wi-Fi compatibility integrates the SP500X ScanPrinter seamlessly into existing IT environments, communicating directly with your back-end system. The MicroPython-based SDK gives you flexibility to tailor the UX to your workflow. And the SP500X prints directly onto packaging for ultimate efficiency, costing less and producing less waste than thermal label printing.

### Scan, print... done!

Simply aim the wearable SP500X ScanPrinter at a 1D/2D barcode, postal code or OCR code to capture the data. Integrated Wi-Fi sends the data to your warehouse management system (WMS) and instantly receives data back. (Or, you can load an offline data set to the device for information lookup and batch uploading at the end of the shift.) Then you immediately swipe the SP500X across the package, applying a fast-drying, non-toxic image directly onto any surface.

### Customizable, sanitary, comfortable—and rugged

The SP500X features a front-lit LCD screen customizable to show information users need. You can easily swap the straps and pad so each user can have their own sanitary set, and the straps break away automatically if caught on something. This rugged device also meets MIL-STD-810G and IP53 ruggedness ratings, protected against shock, dust and water sprays for continuous mobile use in a supply chain environment.

# SP500X SCANPRINTER

Version 1.0

## Print technology

HP Thermal Inkjet

## Print speed

Up to 40" (1000 mm) per second

## Print resolution

Mono color: Up to 1200 x 600 dpi

## Prints on

Plain paper, kraft paper, packing tape, coated labels, polypropylene, polyester or polyethylene plastic.

## Cartridge performance

### Prints per cartridge

Average of 6,000 prints per cartridge (print defined by specific content)

### Shelf life

12 months

### In-printer life

7 days

### Color

Bright cyan (blue) for maximum contrast on packaging material

## Battery

3.8V 4000 mAh (15.2Wh)

Over 6,000 scan/prints per hour and over 4 hours on a single charger

## Connectivity

### Interfaces

USB C for device communication

### Wireless interfaces

Dual band 802.11 a/b/g/n connectivity

WPA/WPA2 security

BT 4.2 (BLE)

## Processor

32-bit ARM Cortex processor, up to 180MHz

## Firmware

Upgradable via USB or wirelessly

## Operating System

Micropython

## Software included

Setup and maintenance applications. Print template designer. Device drivers. SDK, resident data capability

## Storage

8GB eMMC

## Dimensions

87 mm x 138 mm x 58 mm (3.4"x 5.4"x 2.3")

Unit with installed battery

## Weight

13 oz (435 grams)

Unit with installed battery and straps

## Scanner

Honeywell N6603

### Scan angles

360°, pitch: +/- 45°, skew: +/- 60°

### Field of view

42.4° horizontally and 33° vertically

### Sensor

Proprietary CMOS sensor with global shutter and 844 x 640 pixel resolution; 60 frames per second max.

### Linear

UPC/EAN/JAN, GS1 DataBar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post

### 2D Stacked

PDF417, MicroPDF417, GS1 Composite

### 2D Matrix

Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Cod

### Postal

Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code

### OCR Option

OCR-A, OCR-B, E13B (MICR)

## User interface

LCD: Front lit 1.8" TFT-LCD; programmable display, 2 independent GREEN/RED/AMBER programmable LEDs; Programmable buzzer. Three buttons (power/sleep, back/clear, down/navigate), customizable via SDK

## Environment

### Operating

-5°C to 45°C (23°F to 113°F)

MIL-STD-810G

### Storage

-30°C to 55°C (22°F to 131°F)

MIL-STD-810G

### Drop / Shock

MIL-STD-810G

### Vibration

MIL-STD-810G

### Sand / Dust

IP53

### Water

IP53

### Humidity

0 ~ 95% (non-condensing)

MIL-STD-810G, Method 507.5

## Options

For options and accessories, please see

[www.handheldgroup.com/sp500x-scanprinter](http://www.handheldgroup.com/sp500x-scanprinter)



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