PV4

A compact and powerful mobile printer

PV4 Mobile Printer.

Designed for powerful on-demand labelling across a diverse range of industries.

With the demand for cloud-enabled technology increasing year-on-year, businesses now seek IOT devices to deliver more than just the essentials in label printing. Next-generation solutions from SATO are designed to improve customer satisfaction, enhance productivity and provide a consistently accurate track and trace service for peace of mind.

That's why we are proud to introduce the PV4, a high-performing mobile printer engineered to meet the requirements of on-demand label printing environments.

Key Applications

Retail

Deliver efficient and simple on-demand printing to the shop floor where speed is key

The PV4 makes label printing on a busy shop floor simple and efficient in crucial applications such as ad-hoc price changes and discounts, stock taking, and goods return labelling. It also enables retail workers to connect wirelessly at the point of sale to synchronise label prices in real-time to boost pricing accuracy and customer satisfaction.

Logistics

Enhance efficiency across all aspects of the supply chain

Labels required through the supply chain including goods receipt, racks, and returned goods labels, can be printed efficiently by the PV4. It comes with major competitive emulations for seamless integration into existing workflows.

Manufacturing

Product labelling for enhance traceability and efficiency

Built for tough industrial conditions, the PV4 mobile printer helps manufacturers gain clear visibility and traceability from raw materials to finished products, which is especially valuable in the event of a product defect. It has a durable polycarbonate body and rubber over-molded edges that absorb the force of an impact, a vital attribute in the manufacturing environment.

Healthcare

Improve accuracy and efficiency to ensure the safety and satisfaction of patients

From patient registration, lab tracking and asset management in healthcare facilities to the manufacturing, dispensing and distribution of pharmaceutical products, this next generation intelligent printer delivers accuracy and efficiency for users, enhancing safety of patients and consumers.

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Achieve all your on-demand printing needs with one complete dynamic solution

Simple Operation

An intuitive user experience with a simple and easy to use screen and menu layout

Integrate and Connect

- **The SATO PV4 printer has exceptional compatibility.** Third-party emulations including **SLCS**, **BPL-Z**™ and **BPL-C**™ ensure it is a simple process to replace existing printers without creating complex new workflows and enables simple integration for IT departments.

- In addition, connectivity options such as **WiFi**, **Bluetooth 4.1**, **USB 2.0**, **NFC support**, **Android** and **iOS** compatibility offer an enhanced user experience.

Compact and Robust Design

The PV4 complies with IP54 standard and combines compact combines compact design with robust construction. With a 1.8m (5.9 feet) drop resistance, it has a durable polycarbonate body and rubber over-molded edges to absorb the force of impact if dropped.

This innovative design helps prevent downtime due to breakage in both the internal and external workplace environment.

Technical Tools

- iOS SDK, Android SDK, Windows SDK (Windows 10), Linux SDK
- Supported Drivers: Windows Driver (Euro Plus/Seagul) Linux CUPS Driver, Mac CUPS Driver, OPOS Driver
- Utility Program (Unified Label Utility, Net Configuration Tool) Label designer software (Supported: Bartender UL), Virtual COM utility
- USB 2.0 FS type B C connector
- WLAN and WIFI connection
- Bluetooth enabled
- iOS compatible

Optional Accessories

The AC Adapter can be plugged into the printer and charged between uses. Remains operational when charging. Charges a single battery in 4 hours

1 and 4 Channel Battery Charger charges a single battery in 4 hours

Shoulder and Belt strap available for a hands-free solution

PV4 Technical Specification

PRODUCT SPECIFICATION		PV4
Series name		PV-series
PRINTING SPECIFICATIONS		
Print Resolution		203dpi
Method		Direct Thermal
Media setting position		Center alignment
Printer Type		Standard:Continuous, Tear-off, Dispenser
Print speed	Printer mode	Up to 127mm/sec (5 inches/sec)
	Temperature	Ambient temperature and battery status may reduce the speed.
Print darkness		Darkness level: 0 to 30 Default: 10
Printable area		Maximum Length 400 mm x Width 104 mm
Size/Weight	External dimensions:	W 158 mm x D 186 mm x H 82 mm (excluding protrusion)
	Height with cover open	W 158 mm x D 225 mm x H 127.3 mm (excluding protrusion)
	Weight	1,090g (including battery, excluding media)
	Package dimensions	W 297 mm x L 228 mm x H 91 mm
	Package weight	1.74 kg
Options		Smart Battery (spare) Single battery cradle Quad battery cradle Shoulder strap
Accessories	Battery	Standard accessories
	AC Adapter	Standard accessories
	Power Cord	Standard accessories
	Belt strap	Standard accessories
	Quick guide	Standard accessories
	Installation CD	Standard accessories
	Guide disks	Paper support disk: Standard 19 mm (0,75"). Optional 12mm (0,47") included
Printer driver		Windows Driver(Euro Plus/Seagul) Linux CUPS Driver, Mac CUPS Driver OPOS Driver
Tools		Utility Program(Unified Label Utility, Net Configuration Tool) Label Artist Mobile(iOS, Android), Bartender UL
SDK		iOS SDK, Android SDK, Windows SDK(Windows XP - Windows 10), mPrint server administration tool.
MEMORY & PROCESSING		
CPU	CPU1	ARM 926 core CPU 400 MHz, Linux SDK Windows Mobile CE SDK Xamarin SDK
Onboard memory	ROM	Flash 256 MB
	RAM	SDRAM 128 MB
OPERATING CHARACTERISTICS		
Battery specifications		Smart lithium ion battery
		Voltage7.2V Capacity : 6700mAh 48wh
Charging method		AC adapter(Printer Charging), Single battery cradle, Quad battery cradle
		Charging Time: About 6 Hours (Adapter, Cigarette Lighter Adapter), About 10 Hours (Single/Quad battery cradle)

CONNECTIVITY

Interface	USB	USB 2.0 FS type C connector
	Serial	RS-232 Standard mini 14pin connector
	Wireless LAN	802.11a/b/g/n (infrastructure, Ad-hoc, Wi-Fi Direct, SoftAP) TCP/IP, HTTP, DHCPv4 Security: WEP, WPA, WPA2 Encryption scheme: None, WEP (64 bits/128 bits), AES/TKIP(WPA+WPA2 mix mode-PSK, WPA2-PSK)
	Channels	1 to 13 (2.4GHz) /36 to 64,100 to 140,149 to 165(5GHz) *Available channel varies with the country setting.
	Bluetooth	Ver.5.0 Classic + LE
		Profile: SPP,iAP2
		Easy Bluetooth Paring™ via NFC

OPERABILITY AND SERVICEABILITY

LCD specifications		TFT-LCD 2 inches (240 * 320, 262K Color)
Operability	Button operation	5 button: Power, Feed, Move Menu, Menu Select.
	Sensors	Black Mark Sensor (I-Mark), Gap sensor, Paper cover sensor, Label presence.
	Brightness adjustment	6 Step (might be changed later)
LED specifications		Red LED On : Charging Green LED On : Fully Charged Red LED Blinking : Error Replace or Reinstall Battery

MEDIA SPECIFICATIONS

Media	Media thickness (Label + liner)		0.07 to 0.15 mm
	Continuous	Length	6 to 400 mm (0.236" to 15.748")
		Width	50 to 112 mm (1,97" to 4,41")
	Tear-off	Length	6 to 400 mm (0.236" to 15.748")
		Width	50 to 112 mm (1,97" to 4,41")
	Dispenser	Length	6 to 400 mm (0.236" to 15.748")
		Width	50 to 112 mm (1,97" to 4,41")
	Media type/Media shape		Roll media (face-out wound)
			Fan-fold media
			Receipt, Linered, Continuous, Tag
	Black-Mark		Optical density 0.84 ~ 1.34
	Roll diameter/Core size		Roll media diameter
			Maximum 66 mm Inner core 19 mm or 12mm

FONT SPECIFICATIONS

Built-in print fonts	Bitmap font	10 SLCS Resident Fonts, 16 BPL-Z™ Resident Fonts, 7 BPL-Z™ Resident Fonts
	Scalable font	One SLCS Resident Font, One BPL-Z™ Resident Font
	Code page support	23 Code Page, Unicode supported (UTF-8,UTF-16LE, UTF-16BE)

STANDARDS AND REGULATIONS

Standards and regulations	Noise (EMC) regulations	CFCC, CE, SAR
	Safety regulation	UL, CB
	RoHS-2	Complies to the RoHS-2 directive restriction to use hazardous materials.
	WEEE	Compliance
	Drip/Dust-proof	IP54

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