DEPTRUM
光鉴科技

Deptrum® P10 Handheld Smart POS Product Specification

V1.0 · 2026/10/22

Revision History

Version	Description	Date	Revised by
V1.0	Official release	2026.10.22	Yan Qizhan

1 Product Overview

The P10 is a 6.5-inch handheld smart POS terminal with a built-in palm-print module, designed for retail stores, supermarkets, restaurants, hotels, parking lots, petrol stations and similar scenarios. Running Android 13, it supports IC cards, NFC, magnetic stripe cards, QR codes and palm-print payment.

The device features an 8 MP auto-focus rear camera, a 2 MP front camera and a 3.8 V / 3000 mAh battery, supports all 4G bands, dual-band Wi-Fi and Bluetooth 5.0, and is certified to PCI, EMV, CE, FCC and RoHS.

1.1 Applications

- Retail
- Supermarkets
- Restaurants
- Hotels
- Parking lots
- Petrol stations

2 Product Features

2.1 Multiple Payment Methods

Supports palm-print, IC cards (EMV L1/L2), NFC, magnetic stripe cards (Track 1/2/3, bidirectional swipe) and QR codes, covering mainstream payment methods with a single device.

2.2 Palm-scan Verification

The palm-print module supports a 5 ~ 12 cm palm-scan distance and a 3 ~ 20 cm code-scanning distance, with RGB and IR channels at 720 × 1024 @ 25 fps and Palm AE automatic exposure.

2.3 Large Display and Performance

6.5-inch HD IPS LCD (1600 × 720, multi-touch), quad-core 4 × Cortex-A53 @ 2.0 GHz, 2 GB RAM + 16 GB Flash, Android 13.

2.4 Full-band Connectivity

4G (LTE-FDD / TDD) + 3G (WCDMA) + 2G (GSM), dual-band Wi-Fi, BT 5.0 (BR/EDR + BLE); supports GPS / BeiDou / Galileo / GLONASS / QZSS / SBAS positioning.

2.5 Full Certification

Certified to PCI, EMV L1/L2, EMV CL L1, Amex, Paywave, Paypass, Discover, Pure, TQM, QUICS, MIR, CE, FCC and RoHS.

3 Core Specifications

P10 Handheld Smart POS Core Specifications		
General Specifications	Device Dimensions	173 × 82.5 × 17.2 mm
	Device Weight	278 g
	Operating System	Android 13
	Processor	Quad-core, 4 × Cortex-A53 @ 2.0 GHz

P10 Handheld Smart POS Core Specifications		
	Memory / Storage	2 GB RAM + 16 GB Flash
	Battery	3.8 V / 3000 mAh
	Keys	Power key, function key, volume + / - keys
Display & Touch	Display	6.5-inch HD IPS LCD, 1600 × 720 pixels, multi-touch
	Camera	Rear 8 MP AF (with LED flash); front 2 MP FF
Connectivity	Cellular Network	4G（LTE-FDD / LTE-TDD）+ 3G（WCDMA）+ 2G（GSM）
	Wi-Fi	2.4 GHz / 5 GHz
	Bluetooth	BT 5.0（BR/EDR + BLE）
	Positioning	GPS, BeiDou, Galileo, GLONASS, QZSS, SBAS
Payment Card Reading	Magnetic stripe card	ISO/IEC 7811, ISO/IEC 7813, Track 1/2/3, bidirectional swipe
	IC card	ISO/IEC 7816, EMV L1/L2 compliant
	NFC	13.56 MHz，ISO/IEC 14443、ISO 18092，Type A & B
	Card Slots	SIM × 1 + PSAM × 2, or SIM × 2 + PSAM × 1; SD × 1 (up to 1 TB); eSIM optional
Palm-print Module	Palm-scan Working Distance	5 ~ 12 cm
	Code-scanning Working Distance	3 ~ 20 cm, supports simple QR codes
	Data Format	RGB：JPEG / RGB888；IR：JPEG / Raw8
	Resolution / Frame Rate	RGB / IR：720 × 1024 @ 25 fps

P10 Handheld Smart POS Core Specifications		
	Auto Exposure	Supported; Palm AE for RGB / IR
	Spatial Alignment	± 5 pixel
	Image Distortion	RGB < 2%； IR < 2%
	Typical Illuminance Range	0 ~ 50,000 lux (indoor and outdoor)
	Dimensions / Weight	104.2 × 89.8 × 25.2 mm / 105 g
External Interfaces	Peripheral Interfaces	Type-C × 1（USB 2.0、OTG）；Pogopin（6 PIN）× 1；Pogopin（8 PIN）× 1
	Power Adapter	Input AC 100 ~ 240 V, 50 / 60 Hz, 0.35 A; output DC 5.0 V / 2.0 A
Operating Environment	Operating Temperature	-10 °C ~ 50 °C
	Relative Humidity	5% ~ 96% (non-condensing)
Storage Environment	Storage Temperature	-20 °C ~ 70 °C

4 Product Appearance

4.1 Device Front View



Device front view

4.2 Device Rear View



Device rear view

5 External Interface Description

5.1 Interface Description

Interface	Qty	Description
Type-C	1	USB 2.0 with OTG support
Pogopin（6 PIN）	1	Charging / Docking Expansion
Pogopin（8 PIN）	1	Docking Expansion
SIM / PSAM Slots	1 set	SIM × 1 + PSAM × 2, or SIM × 2 + PSAM × 1
SD Card Slot	1	Up to 1 TB

6 Product Packaging

Standard accessories: adapter × 1, USB cable (charging only) × 1, manual × 1.

6.1 Accessories per Unit

Item	Qty	Remark
Adapter	1	Input AC 100 ~ 240 V, output DC 5.0 V / 2.0 A
USB cable (charging only)	1	Standard
Manual	1	Standard

7 Certification

PCI、EMV L1/L2、EMV CL L1、Amex、Paywave、Paypass、Discover、Pure、TQM、QUICS、MIR、CE、FCC、RoHS。

8 Warranty

During the warranty period, the supplier shall provide free repair service for any non-

human-caused failure of the product.

The following cases are not covered by the free warranty:

(1) Failure or damage caused by incorrect or improper use, maintenance or storage, such as cracking, corrosion or damage of the product or its parts resulting from improper handling, dropping, excessive external force, contact with or exposure to unsuitable temperatures, water immersion or damp environments;

(2) Failure or damage caused by repair, modification or disassembly by an organization or person not authorized by the supplier;

(3) Failure to install the device in accordance with the supplier's product manual or installation video (including but not limited to any non-standard operation such as drilling that may affect the quality or performance of the device);

(4) Failure or damage caused by force majeure or accidents;

(5) Other failure or damage not caused by the quality of the product itself.

Apart from the cases excluded above, the supplier shall repair the product free of charge within 15 working days after receiving the product mailed by the customer, and mail the repaired product back to the customer immediately; each party shall bear its own shipping costs.

For cases not covered by the free warranty, the corresponding repair and shipping costs shall be borne by the customer.

9 Disclaimer

The device application information and other similar content in this specification are provided for your convenience only and may be superseded by updated information. It is your responsibility to ensure that applications comply with the technical specifications. Shenzhen Deptrum Technology Co., Ltd. makes no representation or warranty of any kind, express or implied, written or oral, statutory or otherwise, with respect to such information, including but not limited to any warranty of use, quality, performance, merchantability or

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10 Technical Support

You can obtain support through the following channels:

- Email support: send your questions to support@deptrum.com
- FAE support: contact our sales representatives for the FAE contact details