

Deptrum® HandPass 600

Product Specification

V1.0 - 2026/09/30

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1 Revision History

Revision	Description	Date	Revised by
V1.0	Official release	2026/09/30	Yan Qizhan



Product Appearance

2 Product Overview

Product Introduction

The Deptrum® HandPass 600 (model V6) is a high-performance palm recognition host device. The device captures high-definition palm-print and palm-vein images and, powered by a built-in high-performance AI module, delivers fast palm detection and palm AE. Combined with on-device palm algorithms and a cloud-based management platform, the device can directly generate identity IDs, enabling palm-based identity verification.

System Requirements

The device runs a built-in high-performance Android system, and palm recognition algorithms are executed locally on the device. An HTTP-based cloud service communication interface is supported; once integrated with the application management platform, user data and palm-scan records can be managed.

Product Features

- 5 ~ 12 cm palm-scan working distance
- High-performance Android system supporting custom software development
- HTTP-based cloud service communication interface
- Integration with the application management platform to manage user data and palm-scan records

Applications

- PalmID identity recognition
- Access rights management

3 Core Specifications

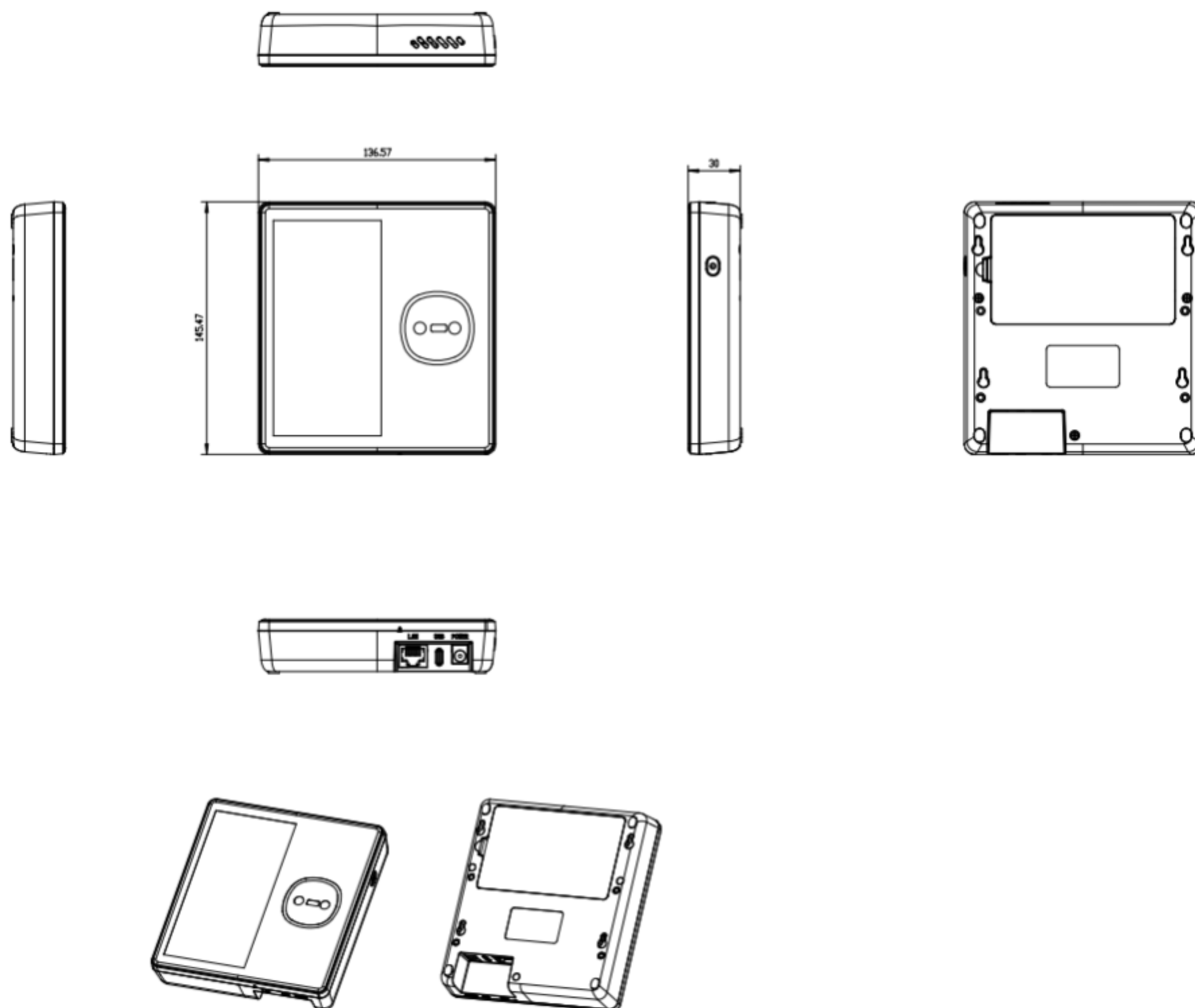
HandPass 600 Specifications

Host Device	Model Specifications	V6
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Configuration	CPU	Quad-core Cortex-A53 @ 1.5 GHz
	RAM	2 GB DDR
	ROM	32 GB
	WiFi	2.4G / 5G, 802.11a/b/g/n
	4G/3G/2G module	FDD-LTE: B1/B3/B5/B7/B8/B20/B28; TDD-LTE: B40/B41b; WCDMA: Band 1 (2100 MHz) / Band 8 (900 MHz) ; GSM: 850/900/1800/1900 MHz
	Operating System	Android 14.0
Display	Screen	5.45-inch in-cell 720 × 1440 IPS display
	GPU	Supported
	Touchscreen	10-point capacitive touch, in-cell
Palm Recognition	Camera	Palm-vein camera
	Camera Communication Interface	USB 2.0
	Palm-scan Working Distance	5 ~ 12 cm
Algorithm Performance	Palm-scan Angle	Pitch ≤ 30°, roll ≤ 30°, yaw ≤ 360°
	Palm Recognition Success Rate	TAR 98% @ FAR = 1e-6 (FRR 2%)
	Matching Mode	1:1、 1:N
Interfaces	SIM Card	Nano SIM × 1
	Memory Card	TF Card × 1
	Type-C Port	USB 2.0 (OTG) × 1
	DC Power Jack	DC005 × 1

	Ethernet Port	100M RJ45 × 1
Others	Gravity Sensor	Supported
	GPS	Supported
	Bluetooth	Supported
	Speaker	2 W
	Microphone	Supported
	Battery	Lithium battery, 6000 mAh capacity
	Power Adapter	Input: AC 100-240 V, 50-60 Hz; Output: DC 12 V / 2 A
	Device Dimensions	145.5 × 136.6 × 30 mm (L × W × H)

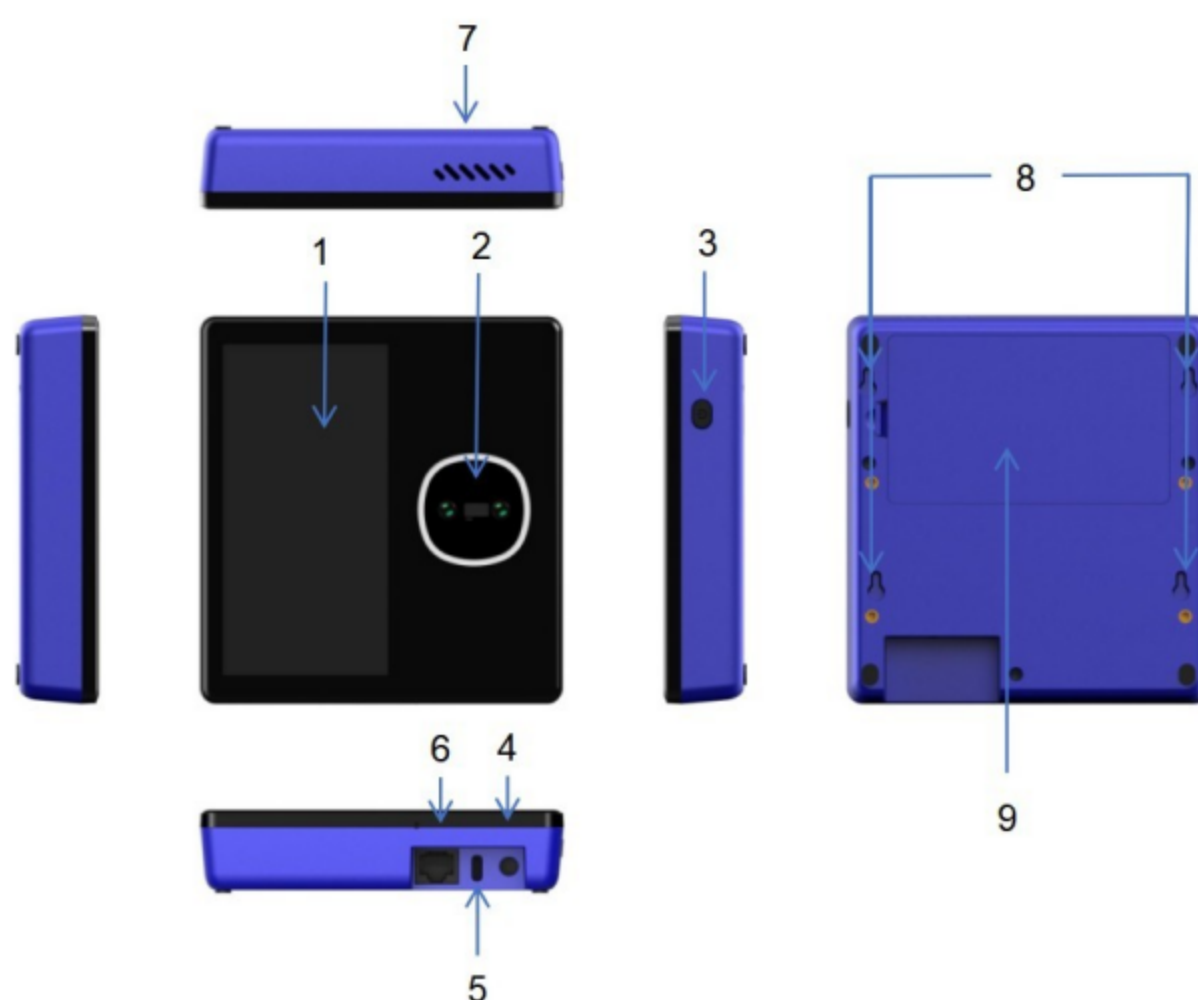
4 Product Dimensions & Structure



Dimension Drawing

4.1 Product Description

The HandPass 600 (model V6) host device consists of a screen, palm-scan camera, power button, power input port, Type-C port, RJ45 Ethernet port, speaker, wall-mount bracket holes, and a battery, and supports wall-mounted installation. The device appearance and mechanical structure are shown in the figure below. Overall dimensions are 145.5 (L) × 136.6 (W) × 30 (H) mm. Structural dimensions may vary slightly depending on the specific product configuration; please refer to the actual product.



V6 Component Numbering Diagram (numbers correspond to the component table)

Product Components	No.
Screen	1
Palm-scan Camera	2
Power Button	3
Power Input Port	4
Type-C	5
RJ45	6
Speaker	7
Wall-mount Bracket Holes	8
Battery	9

5 Environment & Reliability

Item	Parameter	Specification
Operating Environment	Operating Temperature (non-condensing)	-10°C ~ +50°C
	Relative Humidity	0% ~ 85%, non-condensing
Storage Environment	Storage Temperature (non-condensing)	-20°C ~ +85°C
	Storage Humidity (RH)	10% ~ 95%, non-condensing

6 EMC

Item	Specification
ESD Rating	Contact discharge ± 4 kV, air discharge ± 8 kV
Radiated Emission Rating	Compliant with GB 9254 Class B

7 Software Development

Customers can use the Deptrum Palm SDK for secondary development. The SDK supports Windows / Linux / Android platforms and x86_64, ARMv7 and ARMv8 architectures, with specific performance optimizations for embedded architectures. For detailed usage, please refer to the documentation included with the SDK. For this product, please use the Android platform SDK.

8 Disclaimer

The device application information and other similar content described in this publication are provided for your convenience only and may be superseded by updated information. It is your responsibility to ensure that your application complies with the applicable technical

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9 Technical Support

Support is available through the following channels:

- Email support: Please send your questions to support@deptrum.com
- FAE support: Please contact our sales team for FAE support

10 Precautions

- Do not heat this product with any external heat source.
- Do not drop or impact this product, as this may damage internal components and degrade accuracy; improper handling may damage internal elements.
- Do not attempt to modify or disassemble this device in any way, as this may damage the product and degrade accuracy.
- It is normal for the product to heat up after extended use; heat dissipation measures may be applied on the back of the product.
- Do not store the product in a high-temperature, high-humidity environment, as this may degrade accuracy or cause malfunction.