



SECURE CONNECTIONS FOR TRUSTED IDENTITY



User Manual

EMPEROR ID Tablet

Mobile Solution for Both Data Capturing and Identity Verification



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Introduction

About this manual

Thanks for choosing Emperor ID Tablet, This user's manual provides users with performance descriptions and operation methods of this device. In order to make you understand, master and use this device better, please read this manual carefully.

Statement



Before using this product, please read this manual carefully and pay fully attention to the correct operation on the condition of safety.

The operation and maintenance of this machine should be conducted by personnel with relevant training. Any person violating this principle should bear sole responsibility of harm.

Intended Audience

This manual designed to use by qualified Operator, Maintenance Engineer, Service Engineer, Technical Support team, Software engineer and all the people who intended to support this equipment.

Equipment Care and Maintenance

To strengthen maintenance of the equipment, ensure that the equipment is used correctly and always in good working condition, realizing long life-cycle, safe and stable operation, please strictly comply with the requirements for the proper use and maintenance of equipment.

Spare part and accessories

In order to guarantee the safe and steady operation of the device, please replace spare parts and accessories with original EMPEROR components, or authorized by EMPEROR of spare parts and accessories.

Support

Company Name - Shenzhen Emperor Technology Co. Ltd.

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General Overview



Product Diagram



Product Function Module

① Contactless Reader	⑥ MicroSD/TF Card	⑪ Back Camera
② Fingerprint Scanner	⑦ USB Port	⑫ LED Flash
③ Front Camera	⑧ Main Power Port	⑬ Power Button
④ Touch Screen	⑨ Headphone Jack	⑭ Speaker & Microphone
⑤ Contact Reader	⑩ Micro USB 2.0 OTG	⑮ Battery & SIM/PSAM Card Slot

General Description

With the huge demand and rapid development of mobile service in government, bank and other business segments, threat from fraud has also been heightened. Thanks to the integral smart ID and biometric technology from Emperor, we present our ID Tablet to bring security, efficiency and convenience to highly improve the service experience in both data capturing and identity verification scenarios.

The EMP2920 ID Tablet highly integrates the contact/contactless smartcard reading, fingerprint scanning, photo taking and MRZ reading into a small device with rich communication interface. It also adopts a scalable system that supports external functional modules, thus to provide a faster, safer and more efficient Identity Control in government, bank, healthcare, education, enterprise, etc.

Features Specification

Fingerprint Scanner:

- Resolution up to 500dpi, 320 480 pixel photo;
- Accord with standard of FIS 201 / PIV, ISO 19794-2 or ANSI 378 template formats, FBI Certification.

Photo Capturing:

- High resolution webcam on both sides, adaptive light;
- 2 MP front camera; 8 MP auto-focus with LED flash for rear camera.

Smart Card Reading:

- Support both contact and contactless;
- Comply with ISO7816 and 14443 A/B.

Signature Collection:

Up to 640 × 480 dip resolution, up to 512 pressure level

Optional Expansion

Swipe MRZ Reader (Embedded):

- Standard OCR fonts: OCR-B
- Machine Readable Passports (MRP): 2 lines of 44 characters
- Machine Readable Visas (MRV): 2 lines of 44 characters, 2 lines of 36 (size II)
- Machine Readable Travel Cards: 2 lines of 36 (size II) & 3 lines of 30 (size I)
- MRZ swipe speed: up to 100cm/sec
- OCR decoding: up to 0.3 second

Technical Information



■ Dimensions (WxLxH) & Weight:

202mm x 186mm x 17mm, H = 27 mm at the top
Entire machine: 800G

■ Control PC:

CPU: Cortex-A53, 1.5GHz
GPU: ARM Mali—T720 MP1 600MHz
RAM: 1G Bytes
ROM: 8G Bytes

TF/SD: 2~32G Bytes

■ Operating System

Android5.1

■ Display and

8-inch LED-backlit Multi-Touch Display, 1280 x 800 resolution

■ Contact Card Reader

ISO/IEC 14443 Type A/B

■ Contactless Smartcard Reader

ISO/IEC 14443 Type A/B, 13.56MHZ

■ Fingerprint Scanner

ANSI 378, ISO 19794, FIS 201 / PIV Standards

■ Cellular Communication:

4G/LTE (operator/country dependent), 3G, 2G
SIM Card (1 slot), PSAM Card (4 slot)

■ Wi-Fi, Bluetooth and GPS:

Wi-Fi: 802.11b/g/n20/n40
Bluetooth: BT4.0 with EDR
GPS: A-GPS

■ Camera:

2 MP front camera; 8 MP auto-focus with LED flash for rear camera.

■ Speaker and MIC

Built-in

■ Certifications:

CE, ROHS, REACH, FCC

■ External Interface

USB x 2, Main power port, Headset jack

■ Power Supply

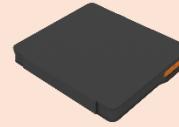
220V input, 8000mAh rechargeable Li-Polymer battery

Working time ≥12h

■ Operating conditions

Ambient temperature -10° to 55°C, Humidity up to 90%

Accessories

NO.	Item	Qty.	Picture	Remark
1	Battery	1 PCS		Standard
2	Power Adapter / Charger	1 PCS		Standard
3	Protective Casing	1 PCS		Optional
4	Protective Casing for MRZ Reading	1 PCS		Optional
5	Power Bank	1 PCS		Optional

Quick Operation Guide



Before Use

- Properly insert the attached battery into the battery holder and ensure good contact between the battery and the device;



- Insert the SIM card and PSAM card in to the card holders, and ensure good contact between the pin and the probe.



Battery Charging

Use the power adapter to charge the battery, the red indicator on the device will flash slowly during charging, and when charging completes, the green indicator will remain on.

Note:

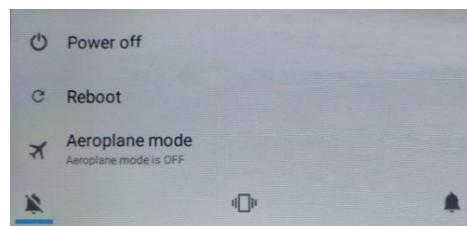
1. Please use the specified power adapter.
2. According to specified charge voltage.



Power On/Off

Press power button and hold for 3 seconds to turn on the device. Before turning on, make sure the battery is charged and is properly installed in the battery holder.

When the device is on, press power button for 3 seconds, and select Power off in the popup menu to turn off the device;



Sleep / Wake Up

When you do not use the device temporarily, you can press the power button to set to sleep mode.

If the device is in slept state, you can press the power button to wake up the device.



Volume Control

No matter when device is in work state or sleep state, you can press the volume button to adjust volume.



FCC Warnings:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body