

Product Manual



Passport & ID Reader

DK-9000 (Scan Model)

Version: V1.2

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Company: Shenzhen Derkiot Technology Co., Ltd.

1、Product Overview

The DK-9000 is a desktop multi-functional **Passport & ID Card** Reader manufactured by Shenzhen Derkiot Technology Co., Ltd. It combines OCR recognition, RFID chip reading and multi-light anti-counterfeit checking. It meets ICAO 9303 global standards and travel industry security rules.

With compact design, simple integration, stable anti-counterfeit capability and high cost-effectiveness, it is widely deployed in hotels, homestays, ports, airports, travel agencies and government service desks worldwide.

2、Features

1、Auto Recognition for All Types of IDs

ID Documents: Passports and ID cards.

Special IDs: custom industry cards, visitor cards, temporary access cards, staff ID cards and other custom documents.

The device starts reading automatically when an ID is placed. No manual selection is needed, and it delivers high recognition accuracy.

2、Multi-Light Anti-Counterfeit Check

Built-in three types of lights: visible light, infrared (IR) and ultraviolet (UV). Infrared light sees through security films to read hidden marks. Ultraviolet light detects fluorescent features to tell fake and invalid IDs effectively.

3、Fast Reading Speed

OCR reading: < 2 second;

passport reading: < 4 seconds;

It supports 1D and 2D barcodes including QR Code, PDF417, Code 128, etc., to meet common ID and QR code reading needs.

4、Easy Connection for Different Systems

No driver required. It works right away via USB 3.0 Type-C. It supports WebSocket and runs well on Windows, Linux and Android systems.

It can connect with local management systems and rental housing platforms. Complete SDK is provided for further development.

5、Small Size, Stable Performance & Low Power

Size: 165 × 142 × 88 mm

Net Weight: 0.686 kg

Power Adapter: Input AC 100~240V 50/60Hz

Device Power Interface: DC 5V 2A (5.5 × 2.5mm)

Working temperature: -10° C to 50° C

Working humidity: 40%~60% (no condensation)

3、Specifications

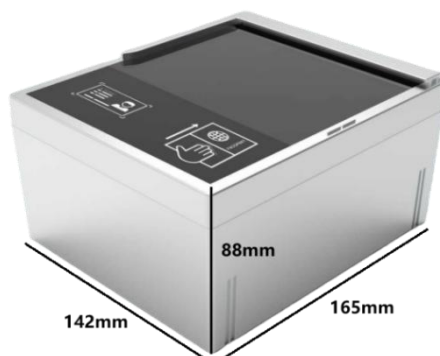


Figure 3-1 Product Appearance



Figure 3-2 Product Interface Display

Parameter Category	Specific Specifications
Image Acquisition	4 MP CMOS camera, 400 DPI, Scanning area: 122 × 82 mm
Light Source	Visible light + Infrared + Ultraviolet
Interface	USB3.0 Type-C (driver-free), Optional RJ45 Ethernet / HDMI port
Chip Reading	Supports ISO 14443 A/B, e-passport BAC authentication
Status Prompt	Green = Success, Red = Fault, Blue = Power, Yellow = Reading, Built-in buzzer

4、Application Scenarios

Hotels&Homestays:Guest check-in and identity verification.

Ports&Airports:Self-service clearance and document check.

Government Desks:Identity check for immigration and public services.

Related Organizations:Visa processing and international account registration.

5、Service & Support

As a professional manufacturer and solution provider specializing in contactless smart card technology and its applications, Derkiot is dedicated to delivering comprehensive support and services to our global customers.

Should you encounter any technical challenges or have customization requirements during your development process, please do not hesitate to contact us:

Official Website: www.derkiot.com

Email: weiting@derkiot.com

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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 complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.