

HIKVISION



Lector de huellas
dactilares y tarjetas

Manual de usuario

User Manual

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This manual is applied for fingerprint and card reader.

Device Name	Model
Fingerprint and Card Reader	DS-K1201MF
	DS-K1201EF
	DS-K1201SF

It includes instructions on how to use the Product. The software embodied in the Product is governed by the user license agreement covering that Product.

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Support

Should you have any questions, please do not hesitate to contact your local dealer.

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: 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.

FCC Conditions

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

Use only power supplies listed in the user instructions:

Model	Manufacturer	Standard
DSA-12PFT-12FUK 120100	Dee Van Enterprise Co., Ltd.	BS
DSA-12PFT-12FAU 120100	Dee Van Enterprise Co., Ltd.	AS
DSA-12PFT-12FIN 120100	Dee Van Enterprise Co., Ltd.	IS
DSA-12PFT-12FUS 120100	Dee Van Enterprise Co., Ltd.	IEC
DSA-12PFT-12 FBZ 120100	Dee Van Enterprise Co., Ltd.	NBR



Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into **Warnings** and **Cautions**:

Warnings: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



Warnings

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.

- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the device.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

**Cautions**

- Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.
- The device cover for indoor use shall be kept from rain and moisture.

- Exponer el equipo a la luz solar directa, baja ventilación o fuente de calor como calefactores o radiadores está prohibido (el desconocimiento puede causar peligro de incendio).

No dirija el dispositivo hacia el sol o lugares muy brillantes. Una floración o de lo contrario, pueden producirse manchas (lo que, sin embargo, no es un mal funcionamiento) y, al mismo tiempo, afectar la resistencia del sensor. Utilice el guante provisto cuando abra la cubierta del dispositivo, evite contacto con la cubierta del dispositivo, ya que el sudor ácido de los dedos puede erosionar el revestimiento de la superficie de la cubierta del dispositivo. Utilice un paño suave y seco cuando limpie las superficies internas y externas de la cubierta del dispositivo, no utilice detergentes alcalinos.

Guarde todos los envoltorios después de desempacarlos para usarlos en el futuro.

En caso de cualquier ocurrió una falla, debe devolver el dispositivo a la fábrica con el envoltorio original.

El transporte sin el envoltorio original puede provocar daños en el dispositivo y generar costos adicionales

El uso inadecuado o el reemplazo de la batería puede resultar en peligro de explosión.

Reemplácela con el mismo tipo o equivalente únicamente.

Deseche las baterías usadas de acuerdo con las instrucciones proporcionadas por el fabricante de la batería..

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Chapter 1 Introduction

1.1 Product Overview

Fingerprint and card reader is a kind of high-performance product, with a 32 bit high-speed processor. It communicates with access controller via the RS-485 protocol. And a built-in tamper-proof module helps to protect card reader from malicious damage.

1.2 Product Appearance

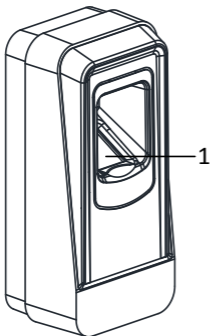


Figure 1-1 Front View

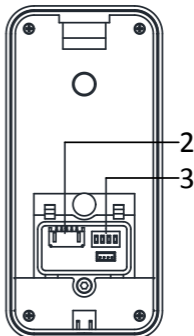


Figure 1-2 Rear View

Table 1-1 Components Description

No.	Name
1	Fingerprint Scanner
2	Cable Interface of RS-485, Power, LED Control, etc.
3	DIP Switch

Chapter 2 Installation



2.1 Introduction for DIP Switch

The DIP switch module is shown below. The No. of DIP switch from left to right is 1 to 4, representing the RS-485 address.



Figure 2-1 DIP Switch Module

Table 1-2 Description of DIP Switch

Icon	Description	
	1	Represent ON in binary mode
	0	Represent OFF in binary mode

For example, the binary value of the following status is 1100.

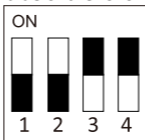


Figure 2-2 DIP Switch Module

Note: The DIP switch of RS-485 address should reach the access control devices requirements. For different access control devices, the DIP switch addresses may be different.

2.2 Definition of Cable

The description of 5 cables is shown below.

Table 1-3 Description of Cables

Color	Description
Blue	RS-485 -
Yellow	RS-485 +
Red	PWR (DC +12V)
Black	GND (Power Grounding)
Black	GND (RS-485 Grounding)

2.3 Wiring Cables

Purpose:

Wire the cables between the controller and the card reader, thus to establish the communication between them.

Steps for RS-485 communication mode:

1. Set the DIP switch for RS-485 address. For Details, refer to *2.1 Introduction for DIP Switch*.
2. Wire the cable between the controller and the card reader as shown below.

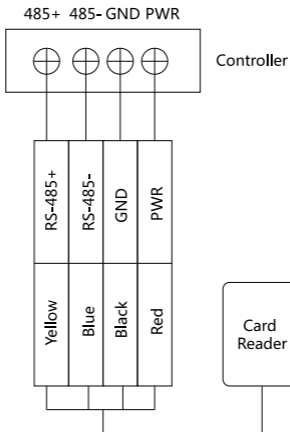


Figure 2-3 Wiring for RS-485 Communication Mode

2.4 Installing Card Reader

Before you start:

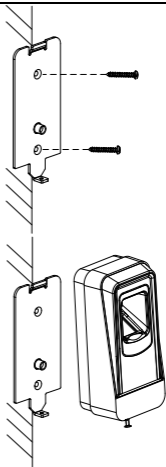
Set the DIP switch. For details, refer to *2.1 Introduction for DIP Switch*.

Steps:

1. Fix the mounting plate on the wall with 2 provided screws.

Note: Do not warp the mounting plate when installing.

2. Connect the cables between the controller and the card reader. For details, refer to 2.3 *Wiring Cables*.
3. Unscrew the screw at the bottom of the card reader.
4. Buckle the card reader up to the plate.



5. Fasten the card reader to the plate with the set screw.



Chapter 3 Sound Prompt and Indicator

After the card reader is powered on, LED status indicator will turn green and blink for 1 time. Then it will turn red and blink for 3 times. At last the buzzer will send out a beep sound indicating the starting up process is completed.

When using the card reader, it will send out different sounds prompt and the LED indicator to indicate different statuses. You can refer to tables below for detailed information.

Table 1-4 Description of Prompt Sound

Sound Prompt	Description
One beep	Swiping card prompt
	For Card + Fingerprint authentication: prompt for pressing the fingerprint after swiping the card.
Two rapid beeps	The operation of pressing keys or swiping card is valid.
Three slow beeps	The operation of pressing keys or swiping card is invalid.
Rapidly continuous beeps	Prompt for tamper-proof alarm.
	Prompt for buzzer alarm.
Slowly continuous beeps	The card reader is unencrypted.

Table 1-5 Description of LED Indicator

LED Indicator Status	Description
Green (blink for 1 time), and red (blink for 3 times)	The card reader is power on.
Green and blinking	For Card + Fingerprint authentication: prompt for pressing the fingerprint after swiping the card.
	The operation of configuring the fingerprint.
Solid green for 2s	The operation of swiping card is valid.
Solid red	Card reader is working normally.
Red and blink for 3 times	The operation of swiping card is invalid.
Red and blinking	For RS-485 protocol: Registering failed or card reader is offline.

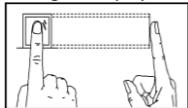
Appendix: Tips for Scanning Fingerprint

Recommended Finger

Forefinger, middle finger or the third finger.

Correct Scanning

The figure displayed below is the correct way to scan your finger:

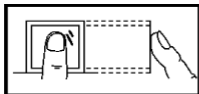


You should press your finger on the scanner horizontally. The center of your scanned finger should align with the scanner center.

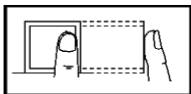
Incorrect Scanning

The figures of scanning fingerprint displayed below are wrong:

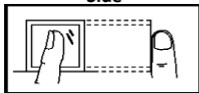
Vertic



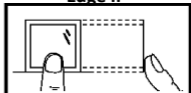
Edge I



Side



Edge II



Environment

The scanner should avoid direct high light, high temperature, humid conditions and rain.

When it is dry, the scanner may not recognize your fingerprint


successfully. You can blow your finger and scan again after drying the finger.



Others



If your fingerprint is shallow, or it is hard to scan your fingerprint, we recommend you to use other authentication methods.

If you have injuries on the scanned finger, the scanner may not recognize. You can change another finger and try again.



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