

HIKVISION

I/O Modulo de salida Manual de usuario



User Manual

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About this Manual

This Manual is applicable to I/O Output Module.

The manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/). Please use this user manual under the guidance of professionals.

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Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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 2004/108/EC, 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 (A)/NMB-3(A) standards requirements.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Keep all liquids away from the device.



- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion.
 Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the manufacturer.

Preventive and Cautionary Tips

To guarantee the card reader works properly, please read and obey the notes below.

- If the card reader is powered by the controller, the power supply distance is recommended to be no longer than 100m. If the distance is longer than 100m, you are advised to power the card reader by external 12V (range: -%10 ~ +%10)
 DC power supply, which is nonswitched and linear.
- To guarantee the communication between the controller and the card reader, you must use RVVP cable above 0.5 to connect them.
- If the card reader is installed outside or in environment easy to permeable, it is advisable to install a waterproof shield.
- If you need to install several card readers, the distance among them must over 30cm.
- To reduce the noise in long distance transmission, the shield of cable should connect to the GND of both controller and card reader terminal.



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Chapter 1 Overview

The I/O output module can switch the signal transferred via RS-485 to I/O output signal. The DS-K5603-Z face recognition terminal can access to the third-party swing barrier with the help of the I/O output module.

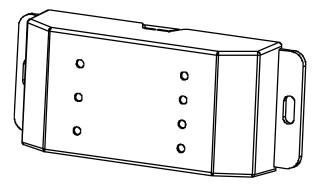


Figure 1. 1 I/O Output Module



Chapter 2 Appearance

2.1 Front View

The front view of the I/O output module is shown as below:

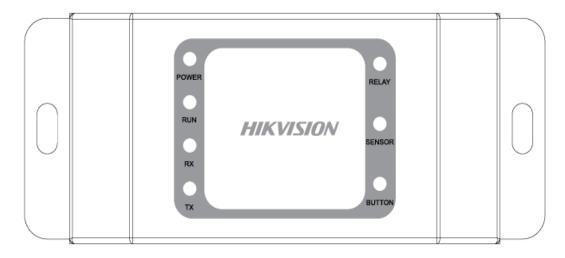


Figure 2. 1 Front View of I/O Output Module

2.2 Rear View (Dial-up)

The rear view of the I/O output module is shown as below:

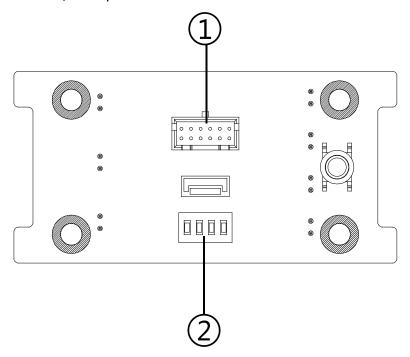


Figure 2. 2 Rear View of I/O Output Module



Table 2. 1 Description of Rear View

No.	Description	
1	Cable Interface	
2	DIP Switch (Set Door Open Duration)	
2	Note: For details, see Chapter 5 DIP Switch Introduction.	

Note: Other components are only supported in the secure door control unit mode. If you want to change the device to secure door control unit, please contact our technical support. The I/O output module mode and the secure door control unit mode cannot be supported at the same time.

2.3 Indicators Information

DS-K2M060 I/O output module has 4 indicators: RX, TX, RELAY and POWER *Note:* Other indicators are only supported in the secure door control unit mode. If you want to change the device to secure door control unit, please contact our technical support. The I/O output module mode and the secure door control unit mode cannot be supported at the same time.

The following tables introduce the meaning of different indicator's status:

POWER:

Solid Red	The unit is powered on.
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RUN:

Flashing Green	The tempering prevention switch is open. Tempering alarm.
Solid Green	The tempering prevention switch is open. The device is running.

RX, TX - RS 485 Communication Indicator:

Flashing Green	The RS 485 communication is connected.
Solid Greed	The RS 485 communication is disconnected.

RELAY: Indicate the lock status:

Green	The indicator will be solid green for a while when the opening door
	action is done. (The opening door action includes swiping the card,
	remote opening door and so on.)
	Note:
	The unit should be powered on.
	The unit is connecting the lock.

SENSOR - Indicate the door magnetic status:

	The indicator is solid green when the door is open. When the door is closed, the indicator is off.	
Green	Note:	
	The unit should be powered on.	
	The unit is connecting the door magnetic.	



BUTTON – Indicate the Door button

	The green light is on when press the Door button. When release the button, the green light will be off.	
Green	Note:	
	The unit should be powered on.	
	The unit is connecting the Door button.	



Chapter 3 Terminals

The figure displayed below is the terminals of the device. You can connect the RS-485 terminal to the face recognition terminal and the third party swing barrier.

Note: Other terminals except for the RS-485 terminal are only supported to wire in the secure door control unit mode. If you want to change the device to secure door control unit, please contact our technical support. The I/O output module mode and the secure door control unit mode cannot be supported at the same time.

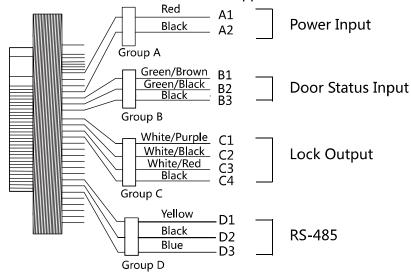


Figure 3. 1 Terminals Diagram

The table displayed below shows the terminals descriptions:

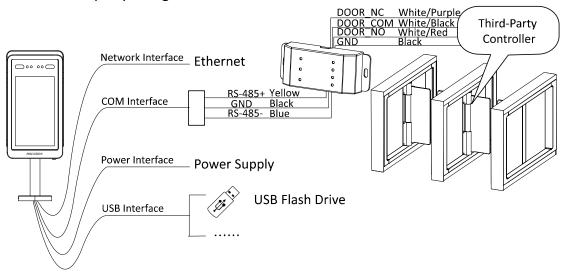
Group Cable No. Color **Descriptions** Name Α1 Red +12V Α **Power Input** A2 Black **GND** В1 Green/Brown SENSOR IN **Door Status** В **B2** Green/Black BUTTON_IN Input В3 Black **GND** White/Purple DOOR NC C1 C2 White/Black DOOR COM C **Lock Output** White/Red DOOR NO C3 Black C4 **GND** D1 Yellow 485 + D D2 Black **GND** RS-485 D3 485 -Blue

Table 3. 1 Terminals Descriptions



Chapter 4 Wiring

You can follow the diagram below to wire the DS-K5603-Z face recognition terminal and the third party swing barrier.





Chapter 5 DIP Switch Introduction

Purpose:

You can set the swing barrier's door open duration by setting the DIP switch. The DIP switch module is shown below. The number from left to right is No. 1 to No. 4, which is from low bit to high bit.

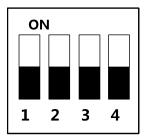


Figure 5. 1 DIP Switch Module (Binary Code: 0000)

The table shows below is the description of the DIP switch.

Table 5. 1 Description of DIP Switch

Icon	Description	
	Binary value is 1	
	Binary value is 0	

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

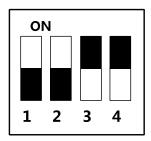


Figure 5. 2 DIP Switch Module (Binary Code: 1100)

You can set the DIP switch to control the swing barrier's door open duration.

The DIP switch binary value and its corresponded door open duration is as follows:

Decimal Value	Binary Value	Door Open Duration
0	0000	1 s
1	0001	2 s
2	0010	3 s
3	0011	4 s
4	0100	5 s



Decimal Value	Binary Value	Door Open Duration
5	0101	6 s
6	0110	7 s
7	0111	8 s
8	1000	9 s
9	1001	10 s
10	1010	11 s
11	1011	12 s
12	1100	13 s
13	1101	14 s
14	1110	15 s
15	1111	16 s

Note: After changing the DIP switch value, you should reboot the module to apply the settings.

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