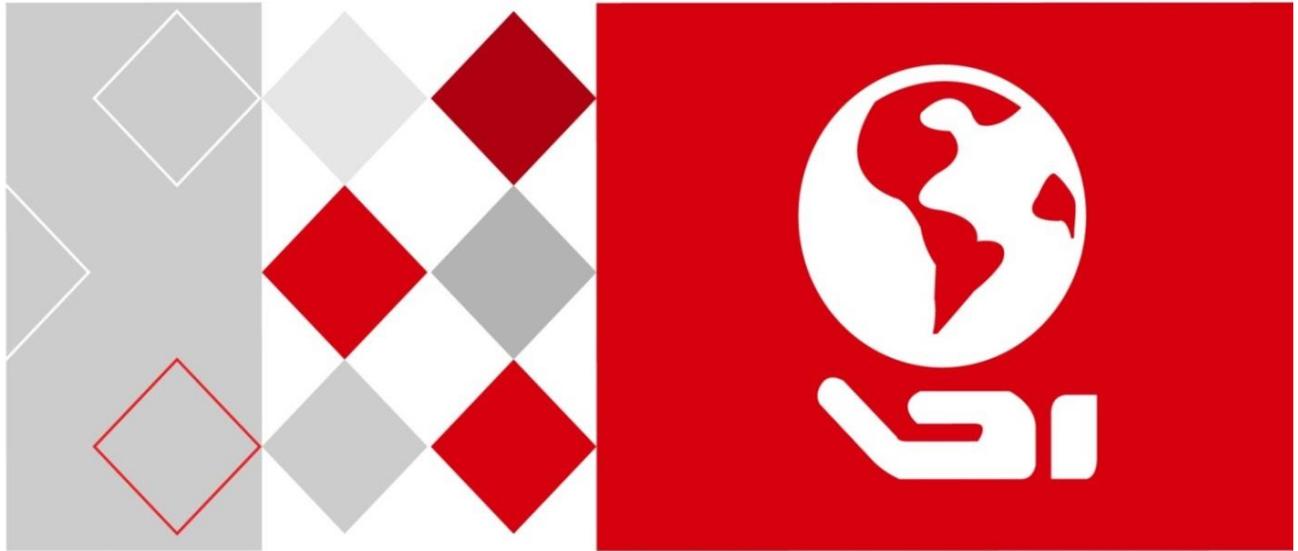


HIKVISION



Bluetooth Card Reader

User Manual

UD04705B

User Manual

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About this Manual

This Manual is applicable to Bluetooth Card Reader.

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

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 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 2014/30/EU, the LVD Directive 2014/35/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 (A)/NMB-3(A) standards requirements.

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 NOTE	Provides additional information to emphasize or supplement important points of the main text.
 WARNING	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 DANGER	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

- Please adopt the power adapter which can meet the safety extra low voltage (SELV) standard.
- To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture.
- This installation should be made by a qualified service person and should conform to all the local codes.
- Please install blackouts equipment into the power supply circuit for convenient supply interruption.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

Preventive and Cautionary Tips

- Make sure the power supply voltage is correct before using the device.
- Do not drop the device or subject it to physical shock.
- Do not place the device in extremely hot, cold temperatures (please refer to the product specification for the operating temperature), dusty or damp environment, and do not expose it to high electromagnetic radiation.
- To avoid heat accumulation, good ventilation is required for a proper operating environment.
- Keep the device away from water and any liquid.
- While shipping, the device should be packed in its original packing.

- Improper use or replacement of the battery may result in hazard of explosion. Please use the manufacturer recommended battery type.

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Chapter 1 Introduction

1.1 Product Overview

Thank you for purchasing the long range card reading system. For best results, please read the manual carefully, and follow the instructions to install and debug the device.

1.2 Features and Functions

- Directed recognition

The device adopts synchronous communication of both infrared (IR) and radio frequency (RF), sending 60° angle IR scanning signal. The RF signal data (card No.) exchange only takes place within the range of IR scanning signal. Currently, the technology of synchronous communication of both IR and radio frequency RF is the only solution to directed long range card reading.

- Adjustable card reading range

The range of stable card recognition is over 20 meters and the signal is able to penetrate windshield films. Based on actual needs, the device can be installed to cover a recognition range of 3 to 15 meters. For best results, it is recommended that the signal should cover the 6-meter area in front of the barrier arm.

- Sleeping mode

Sleeping mode is available for the recognition card. No power is consumed while the card is sleeping, and the card will be activated and sends data when getting into the range of the scanning signal. The card will sleep again after leaving the scanning range.

- Interference proof

The device is configured with a verification code by default. The verification code is sent together with the scanning signal to activate the card within recognition range. The activated card will respond the signal with its card No. and the verification code which will be confirmed by the device, and the card No. that comes with a different verification code will be deleted by the device. When multiple devices are in use, different verification codes will help solve the issue of signal interference from neighboring lanes or concurrent card readings.

- Double triggers

The device can either automatically read cards (default) or be triggered by signals from inductive loops. To change the trigger mode, see the manual.

- Operating modes

Two operating modes are available: indoor and outdoor. The outdoor mode is applicable to open-air parking, while indoor mode should be set for underground parking as IR signal may be deflected thus interfered.

- Multiple data output interfaces

The device is equipped with Wiegand26 and RS-485 interfaces. See the manual to select interface as required.

Chapter 2 Overview

2.1 Structure

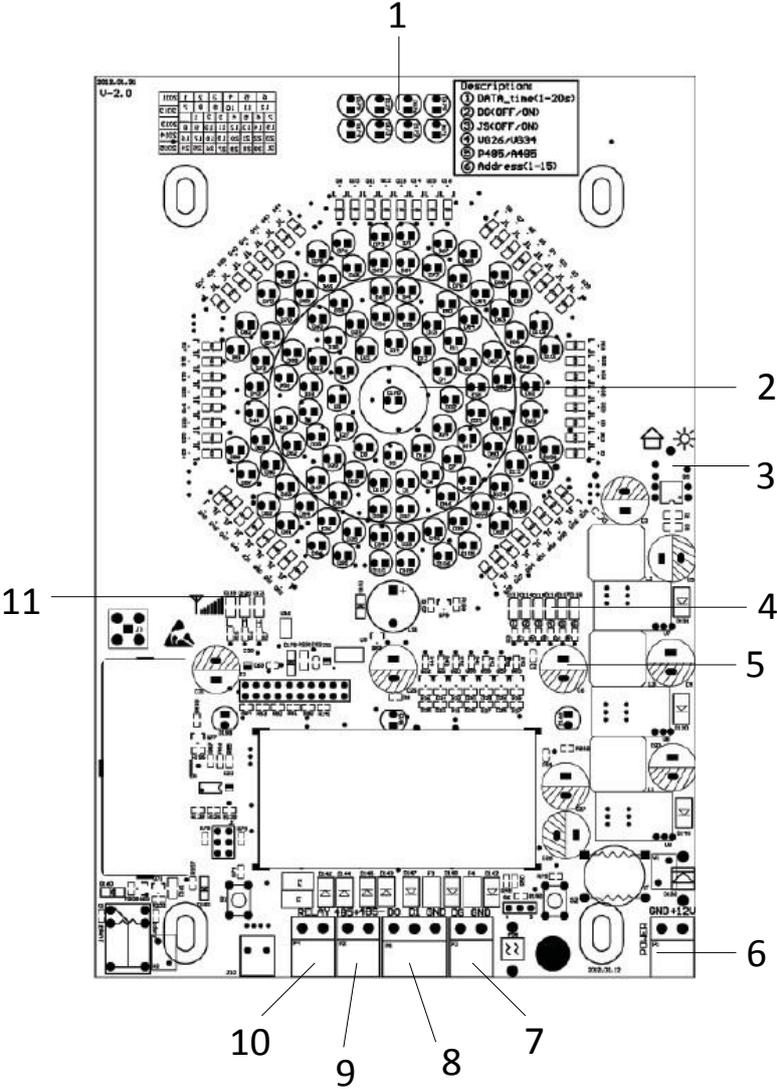


Figure 2-1 Internal Structure

Table 2-1 Description

No.	Description
1	Card reading indicators
2	IR emitters
3	Operating mode button (ON for outdoor, otherwise indoor)
4	Function indicator
5	Power indicator
6	12 V operating power
7	Loop signal interface
8	Wiegand output
9	RS-485 output
10	Relay output
11	Signal strength indicator

2.2 Cabling Requirements

The cabling requirements for different controllers are as follows:

- Wiegand interface connection: power cable: 2-pin, RVV2 × 0.75; Wiegand cable: 3-pin, RVVP3 × 0.5.
- RS-485 interface connection: power cable: 2-pin, RVV2 × 0.75; RS-485 cable: 2-pin, RVVSP2 × 1.0.

Chapter 3 Function Configuration

Before you can configure the functions of the device, first enter configuration mode: press and hold S2 button for about 2 seconds, and release the button after hearing a long buzzing sound to enter configuration mode. After function configuration is finished, press and hold the S2 button again for about 2 seconds or wait for 6 seconds to exit configuration mode.



If the device is installed in outdoor environment, turn the operating mode switch to ON (the side with ☀ sign), or to the other side for indoor installation.

3.1 Setting Card No. Upload Delay

Step 1 After entering configuration mode, press S2 button until LED ① flashes.

Step 2 Press S1 button to set the delay. Press the button once to set one second delay, e.g., pressing the button x times will set a delay of x seconds.

Step 3 The buzzer will send x buzzes to indicate that a delay of x seconds.



The delay can be set from 1 to 20 seconds. The default setting is 3 seconds.

3.2 Setting Loop Signal Trigger

Step 1 After entering configuration mode, press S2 button until LED ② flashes.

Step 2 Press S1 button to enable or disable the trigger. The trigger is enabled if the indicator is on, or disabled otherwise. The function is disabled by default.

3.3 Setting Relay

Step 1 After entering configuration mode, press S2 button until LED ③ flashes.

Step 2 Press S1 button to enable or disable relay function. The relay is enabled if the indicator is on, or disabled otherwise. The function is disabled by default.

3.4 Switching Wiegand 26/34

Step 1 After entering configuration mode, press S2 button until LED ④ flashes.

Step 2 Press S1 button to switch between Wiegand 26 or 34: Wiegand 26 is enabled when the light is on, and Wiegand 34 is enabled when the light is off. Wiegand 26 is enabled by default.

3.5 Switching Active/Passive RS-485 Upload

Step 1 After entering configuration mode, press S2 button until LED ⑤ flashes.

Step 2 Press S1 button to switch between active or passive RS-485 upload mode: active RS-485 upload is enabled if the light is on, and passive RS-485 upload is enabled if the light is off. Passive RS-485 upload is enabled by default.

3.6 Setting Device Code

Step 1 After entering configuration mode, press S2 button until LED ⑥ flashes.

Step 2 Press S1 button to set device code, for example, pressing S1 button 5 times to set the device code to 5, and wait for 5 buzzes to indicate the code is set.



The code can be set from 1 to 15. The default setting is 1.

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