

Access Reader

User's Manual

V 1.1.1

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





Preface

Overview

This document elaborates appearance, installation method, wiring instruction and system structure of access reader.

Symbol Definition

The following symbols may appear in the document. Please refer to the table below for the respective definition.

Symbol	Note
 Danger	It means highly potential danger. It will cause severe injury or casualties if it fails to avoid.
 Warning	It means moderate or low potential danger. It may cause slight or moderate injury if it fails to avoid.
 Caution	It means potential risk. It may cause device damage, data loss, weaker performance or other unpredictable consequences if it fails to avoid.
 Anti-static	It means electrostatic-sensitive device.
 Protection against electric shock	It means high-voltage danger.
 Laser radiation	It means intensive laser radiation.
 Tip	It means that it can help you to solve some problems or save your time.
 Note	It means the additional information, which is the emphasis and supplement of the main body.

The following description is the correct application method of the device. Please read the manual carefully before use, in order to prevent danger and property loss. Strictly conform to the manual during application and keep it properly after reading.

Warning

- Please make sure to use batteries according to requirements; otherwise, it may result in fire, explosion or burning risks of batteries!
- To replace batteries, only the same type of batteries can be used!
- The product shall use electric cables (power cables) recommended by this area, which shall be used within its rated specification!
- Please use power supply that meets SELV (safety extra low voltage) requirements, and supply power with rated voltage that conforms to Limited Power Source in IEC60950-1. For specific power supply requirements, please refer to device labels.
- Products with category I structure shall be connected to grid power output socket, which is equipped with protective grounding.
- Power plug or appliance coupler is a disconnecting device. During normal use, please keep an angle that facilitates operation.

Caution

- Please change default password timely after device deployment, in order to avoid embezzlement.
- Please don't place and install the device in an area exposed to direct sunlight or near heat generating device.
- Please don't install the device in a humid, dusty or fuliginous area.
- Please keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Please don't drip or splash liquids onto the device; don't put on the device anything filled with liquids, in order to prevent liquids from flowing into the device.
- Please install the device at well-ventilated places; don't block its ventilation opening.
- Use the device only within rated input and output range.
- Please don't dismantle the device arbitrarily.
- Please transport, use and store the device within allowed humidity and temperature range.

Special Statement

- This document is for reference only. Please refer to the actual product for more details.
- The user's manual and program will be updated in a real-time way according to the product, which won't be further notified.
- The user shall undertake any losses resulting from violation of guidance in the document.
- The document may include technically inaccurate contents, inconsistencies with product functions and operations, or misprint. Final explanations of the company shall prevail.

1 Overview

As a reader device, access reader complements and improves video surveillance and visual intercom products. With neat fashionable appearance and powerful function, it is designed for high-end commercial buildings, corporation buildings, corporation properties and intelligent communities.

The reader boasts rich functions as follows:

- Non-contact reader (read only) owns 2.5cm - 5.5cm reading distance and <0.3s response time.
- Support Wiegand Protocol and RS485 Protocol. Baud rate of RS485 is 9600bps.
- Support watchdog function.
- All connecting ports have overcurrent and overvoltage protection.

- Protection level: IP67, suitable for outdoor installation. Working temperature is $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$, and working humidity is $\leq 95\%$.
- Support buzzer and indicator light.

2 Device Structure

Structural dimension figure of access reader is shown in Figure 2-1. Dimension unit is mm.

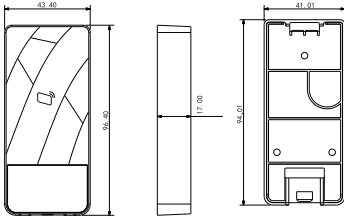


Figure 2-1

3 Device Installation

Installation diagram of access reader is shown in Figure 3-1.

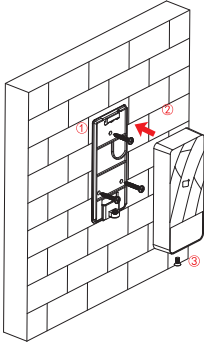


Figure 3-1

Installation steps are as follows:

- Step 1 Fix the rear cover onto the wall with self-tapping screws.
- Step 2 Hang the front cover onto the hook at the top of rear cover.
- Step 3 Put machine screws through bottom holes; lock front cover onto rear cover.

4 System Framework

4.1 Wiring Instruction

Wiring instruction of 8-core cable is shown in Table 4-1.

No.	Color	Interface	Instruction	Protocol
1	Red	12V	DC 12V power supply	-
2	Black	GND	GND	-
3	Blue	CASE	-	Wiegand Protocol
4	White	D1	Wiegand signal cable 1	
5	Green	D0	Wiegand signal cable 0	
6	Brown	LED	Wiegand card swiping indication signal cable	
7	Yellow	RS485-	485 signal cable negative	RS485
8	Purple	Rs485+	485 signal cable positive	Protocol

Table 4-1

4.2 Diagram of System Framework

Connection diagram of access reader, access controller and integrated access is shown in Figure 4-1.

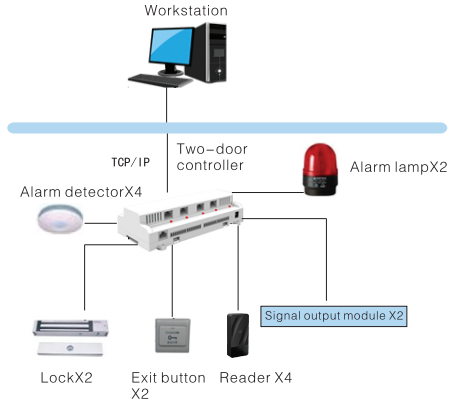


Figure 4-1