

# Card Reader Quick Guide

V1.00

# 1 Packing List

Contact your local dealer if the package is damaged or incomplete. The package contents may vary with device model.

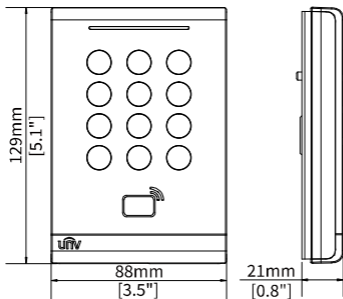
No.	Name	Qty	Unit
1	Card reader	1	PCS
2	Screw components	2	Set
3	Mounting bracket	1	PCS
4	Product documents	1	Set

## 2 Product Overview

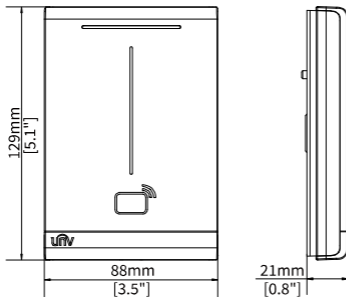
The figures below are only for illustration purpose. The actual appearance may be different.

### 2.1 Appearance and Dimensions

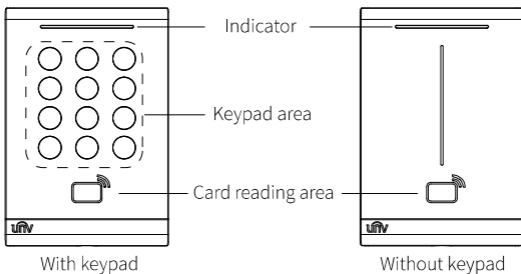
- With keypad



- Without keypad



## 2.2 Structure and Tail Cables



Devices with or without keypad have the same tail cables. See specifications below.

Color	Label	Description	Color	Label	Description
Red	VDD12V	Power interface	Grey	WIEGAND_BUZZER	Beep control
Black	GND	Grounding interface	White	WIEGAND_OK	Green control LED
Orange	RS485_A	RS485 interface	Purple	WIEGAND_ERR	Red control LED
Yellow	RS485_B		Brown	WIEGAND_OUT0	Wiegand output interface
Blue	WIEGAND_MODE	Switch Wiegand signals	Green	WIEGAND_OUT1	
Pink	TAMPER	Report tamper alarms to the control client			



### NOTE!

The card reader is in Wiegand mode by default. When both WIEGAND\_OK and WIEGAND\_ERR are at low voltage level, the card reader will switch to RS485 mode, and WIEGAND\_OUT0, WIEGAND\_OUT1, WIEGAND\_BUZZER, and WIEGAND\_MODE are used to indicate the RS485 address.

## 2.3 Status Description

Indicator	Sound	Description
Blink blue, green and red in sequence	One beep	Device completes startup.
Steady blue	/	Device is operating normally.
Steady green for 1s	One beep/ Two beeps	Card authentication succeeded.
Steady red for 1s	Three beeps	Card authentication failed.
/	Constant beeps	A tamper alarm triggered.

## 3 Device Installation

### 3.1 Preparation

- Wiring: Plan wiring for cables before installation.
- Tool: Please prepare a Phillips screwdriver.

### 3.2 Installation Steps



#### NOTE!

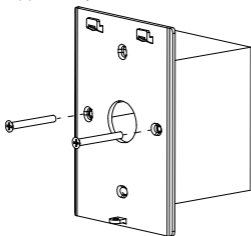
- The following figures are for reference only. The installation methods may vary with scenarios.
- The card reader needs to be installed with 86\*86mm/115\*73 mm junction box (prepared or purchased separately). Please choose appropriate accessories according to the actual installation environment.
- The installation methods of card readers with or without keypad are the same. The following takes the installation of the card reader with keypad as an example.

#### 1. Determine the position of the 86mm/115mm junction box.

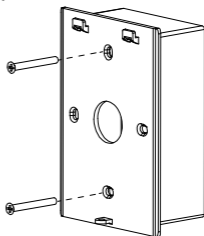
Use the existing 86mm/115mm junction box embedded in the wall or drill a hole to embed one. The two installation holes on the 86mm/115mm junction box should be parallel/vertical to the ground.

#### 2. Mount the bracket.

- (1) Attach the brackets to the junction boxes by aligning the two center holes with the holes on the 86mm junction box and aligning the top and bottom holes with the holes on the 115mm junction box. Make sure the protruding side is facing towards you.
- (2) Use Phillips screws to fasten the bracket to the junction box.



86\*86 mm junction box

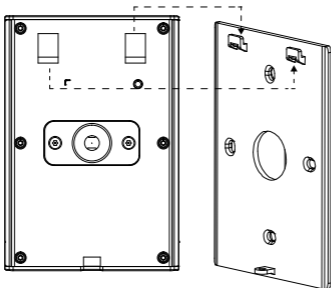


115\*73 mm junction box

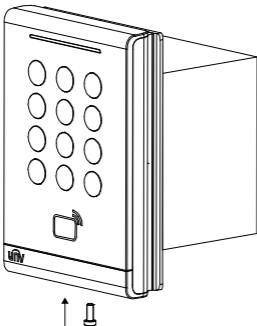
- #### 3. Connect the tail cables correctly. Lead the rest of the cables through the round hole in the center of the bracket and conceal them in the junction box.

4. Mount the card reader onto the bracket.

- (1) Align the slots on the card reader with the two protrusions on the top of the bracket, and then insert. The screw hole on the card reader should be aligned with the bracket hole.



- (2) Insert a screw through the bottom screw hole to fix the card reader and bracket. Make sure screw is fastened.



## 4 Startup

After completing the installation, connect one end of the power adapter (prepared or purchased separately) to the card reader's power interface, and connect the other end to the power supply.

If the indicator light blinks blue, green and red in sequence with a beep, the card reader is started successfully.

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- This manual is intended for multiple software versions, and the illustrations and descriptions in this manual may be different from the actual GUI and functions of the software.
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### Network Security

#### Please take all necessary measures to enhance network security for your device.

The following are necessary measures for the network security of your device:

- **Change default password and set strong password:** You are strongly recommended to change the default password after your first login and set a strong password of at least nine characters including all three elements: digits, letters and special characters.
- **Keep firmware up to date:** It is recommended that your device is always upgraded to the latest version for the latest functions and better security. Visit Uniview's official website or contact your local dealer for the latest firmware.
- **The following are recommendations for enhancing network security of your device:**
- **Change password regularly:** Change your device password on a regular basis and keep the password safe. Make sure only the authorized user can log in to the device.
- **Enable HTTPS/SSL:** Use SSL certificate to encrypt HTTP communications and ensure data security.
- **Enable IP address filtering:** Allow access only from the specified IP addresses.
- **Minimum port mapping:** Configure your router or firewall to open a minimum set of ports to the WAN and keep only the necessary port mappings. Never set the device as the DMZ host or configure a full cone NAT.
- **Disable the automatic login and save password features:** If multiple users have access to your computer, it is recommended that you disable these features to prevent unauthorized access.
- **Choose username and password discretely:** Avoid using the username and password of your social media, bank, email account, etc, as the username and password of your device, in case your social media, bank and email account information is leaked.
- **Restrict user permissions:** If more than one user needs access to your system, make sure each user is granted only the necessary permissions.
- **Disable UPnP:** When UPnP is enabled, the router will automatically map internal ports, and the system will automatically forward port data, which results in the risks of data leakage. Therefore, it is recommended to disable UPnP if HTTP and TCP port mapping have been enabled manually on your router.
- **Multicast:** Multicast is intended to transmit video to multiple devices. If you do not use this function, it is recommended you disable multicast on your network.
- **Check logs:** Check your device logs regularly to detect unauthorized access or abnormal operations.
- **Isolate video surveillance network:** Isolating your video surveillance network with other service networks helps prevent unauthorized access to devices in your security system from other service networks.
- **Physical protection:** Keep the device in a locked room or cabinet to prevent unauthorized physical access.
- **SNMP:** Disable SNMP if you do not use it. If you do use it, then SNMPv3 is recommended.

**Learn More**

You may also obtain security information under Security Response Center at Uniview's official website.

### **Safety Warnings**

The device must be installed, serviced and maintained by a trained professional with necessary safety knowledge and skills. Before you start using the device, please read through this guide carefully and make sure all applicable requirements are met to avoid danger and loss of property.

### **Storage, Transportation, and Use**

- Store or use the device in a proper environment that meets environmental requirements, including and not limited to, temperature, humidity, dust, corrosive gases, electromagnetic radiation, etc.
- Make sure the device is securely installed or placed on a flat surface to prevent falling.
- Unless otherwise specified, do not stack devices.
- Ensure good ventilation in the operating environment. Do not cover the vents on the device. Allow adequate space for ventilation.
- Protect the device from liquid of any kind.
- Make sure the power supply provides a stable voltage that meets the power requirements of the device. Make sure the power supply's output power exceeds the total maximum power of all the connected devices.
- Verify that the device is properly installed before connecting it to power.
- Do not remove the seal from the device body without consulting Uniview first. Do not attempt to service the product yourself. Contact a trained professional for maintenance.
- Always disconnect the device from power before attempting to move the device.
- Take proper waterproof measures in accordance with requirements before using the device outdoors.

### **Power Requirements**

- Install and use the device in strict accordance with your local electrical safety regulations.
- Use a UL certified power supply that meets LPS requirements if an adapter is used.
- Use the recommended cordset (power cord) in accordance with the specified ratings.
- Only use the power adapter supplied with your device.
- Use a mains socket outlet with a protective earthing (grounding) connection.
- Ground your device properly if the device is intended to be grounded.

### **Battery Use Caution**

- When battery is used, avoid:
  - Extremely high or low temperature and air pressure during use, storage and transportation.
  - Battery replacement.
- Use the battery properly. Improper use of the battery such as the following may cause risks of fire, explosion or leakage of flammable liquid or gas.
  - Replace battery with an incorrect type;
  - Dispose of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery;
- Dispose of the used battery according to your local regulations or the battery manufacturer's instructions.

### **Avertissement de l'utilisation de la batterie**

- Lorsque utiliser la batterie, évitez:
  - Température et pression d'air extrêmement élevées ou basses pendant l'utilisation, le stockage et le transport.
  - Remplacement de la batterie.
- Utilisez la batterie correctement. Mauvaise utilisation de la batterie comme celles mentionnées ici, peut entraîner des risques d'incendie, d'explosion ou de fuite liquide de gaz inflammables.
  - Remplacer la batterie par un type incorrect;
  - Disposer d'une batterie dans le feu ou un four chaud, écraser mécaniquement ou couper la batterie;
- Disposer la batterie utilisée conformément à vos règlements locaux ou aux instructions du fabricant de la batterie.

### **Regulatory Compliance**

#### **FCC Statements**

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.

Visit [http://en.uniview.com/Support/Download\\_Center/Product\\_Installation/Declaration/](http://en.uniview.com/Support/Download_Center/Product_Installation/Declaration/) for SDoC.

**Caution:** The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This product 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 product 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 product 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.

**LVD/EMC Directive**



This product complies with the European Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

**WEEE Directive-2012/19/EU**



The product this manual refers to is covered by the Waste Electrical & Electronic Equipment (WEEE) Directive and must be disposed of in a responsible manner.

**Battery Directive-2013/56/EU**



Battery in the product complies with the European Battery Directive 2013/56/EU. For proper recycling, return the battery to your supplier or to a designated collection point.