

Card Reader Quick Guide

V1.02

Preface

The content of this section is designed to ensure that users use the product correctly to prevent dangers or property loss caused by improper operation. Before using this product, be sure to read this manual carefully. Please keep this manual properly for future reference.

About This Manual

- We recommend that you use this manual under the guidance of a professional.
- This manual is designed for use with multiple product models, and it is not possible to list the appearance and functions of each product individually. Please refer to the actual product for use.
- 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.
- Despite our best efforts, technical or typographical errors may exist in this manual. Uniview cannot be held responsible for any such errors and reserves the right to change the manual without prior notice.
- Users are fully responsible for the damages and losses that arise due to improper operation.
- Uniview reserves the right to change any information in this manual without any prior notice or indication. Due to such reasons as product version upgrade or regulatory requirement of relevant regions, this manual will be periodically updated.
- This manual will be updated in real time according to the laws and regulations of the relevant regions. For specific details, please refer to the product's paper copy, QR code, or official website. In case of any discrepancy between the paper copy and the electronic version, the electronic version shall prevail.

About This Product

If the product you have chosen is a video product, please strictly adhere to the applicable laws and regulations. You can visit our official website to inquire about the relevant content.

Instructions for Use

- This document serves as a guide for use only. All statements, information, and suggestions contained in this document do not constitute any express or implied warranty.
- We assume no responsibility for any special, incidental, consequential, or indirect damages resulting from the use of this manual or the use of our products, including but not limited to losses due to loss of business profits, data or document loss, and product malfunction or information leakage caused by cyber-attack, hacker attack, and virus infections.
- Due to uncertain factors such as the physical environment, there may be discrepancies between the actual values of some data and the reference values provided in the manual. In case of any questions or disputes, the company's final interpretation shall prevail.


Formatting Conventions



The UI formatting conventions used in this document are as follows:

Format	Meaning
Bold	Bold means UI elements (button names, menu names, window names, etc.), e.g., Click Save .
>	Indicate a sequence of actions, e.g., click Device Management > Add Device, which means first click Device Management, and then click Add Device.

Symbol Conventions

This document uses various distinctive symbols to highlight areas that require special attention during the operation process. The meanings of these symbols are as follows:

Symbol	Meaning
	NOTE: Provides tips and additional information related to the operation and

Symbol	Meaning
	use of the product.
	CAUTION: Alerts to matters that requires attention during operation, as improper handling may lead to product damage, data loss, or functional abnormalities.
	WARNING: The annotations following this symbol demand extra attention, as improper handling could potentially cause personal injury.

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EU Authorised Representative

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If you have any feedback, please contact us at service@uniview.com.

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Privacy Protection Reminder

Uniview complies with appropriate privacy protection laws and is committed to protecting user privacy. You may want to read our full privacy policy at our website and get to know the ways we process your personal information. Please be aware, using the product described in this manual may involve the collection of personal information such as face, fingerprint, license plate number, email, phone number, GPS. Please abide by your local laws and regulations while using the product.

Safety Precautions

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 Safety

Please use batteries properly; otherwise, there is a risk of fire or explosion.

- **Warning:** Using incorrect battery models can lead to explosion.
- If you need to replace the battery, it is recommended that you go to an authorized service center or have it replaced under professional supervision. We shall not be held responsible for any issues arising from unauthorized battery replacement.
- When replacing the battery, be sure to use a battery of the same type as the original! Using the wrong model for replacement (such as certain types of lithium batteries) may cause safety protection to fail.
- Batteries must not be exposed to overheat environments such as sunlight, fire, as this may lead to fire, explosion, or combustion.
- Do not dispose of batteries in fire or heating appliances. Do not squeeze, bend, or cut batteries, as it may cause explosion.
- Do not expose batteries to extremely high or low temperatures, or to very low-pressure environments, as this may cause explosion or leakage of flammable liquid/gas.
- Dispose of the used battery according to your local regulations or the battery manufacturer's instructions.
- For products or the included remote control containing a button cell battery: Do not ingest the battery - chemical burn hazard! If swallowed, a button cell battery can cause severe internal burns within 2 hours and may be fatal. Precautions (including but not limited to):
 - Keep new and used batteries away from children.
 - Stop using the product and keep it away from children if the battery compartment is not securely closed.
 - If you suspect that a battery may have been swallowed or inserted inside any part of the body, seek immediate medical attention.

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.
 - Do not include the account name or the reverse of the account name.
 - Avoid using consecutive characters, such as 123, abc, etc.
 - Do not use overlapping characters, such as 111, aaa, etc.
- **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.

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 https://global.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 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

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 Regulation- (EU) 2023/1542



Battery in the product complies with the European Battery Regulation (EU) 2023/1542. For proper recycling, return the battery to your supplier or to a designated collection point.

1 Packing List

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

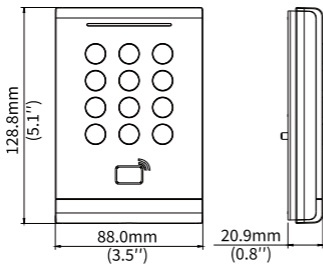
No.	Name	Qty	Unit
1	Card reader	1	PCS
2	Screws and components	4	Set
3	Bracket	1	PCS
4	Tail cable	1	PCS
5	Tail cable cover plate	1	PCS
6	Product documents	1	Set

2 Product Overview

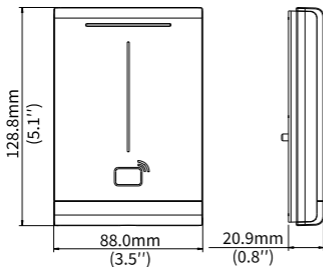
The appearance, dimensions, and structure may vary with device model.

2.1 Appearance and Dimensions

1 With keypad

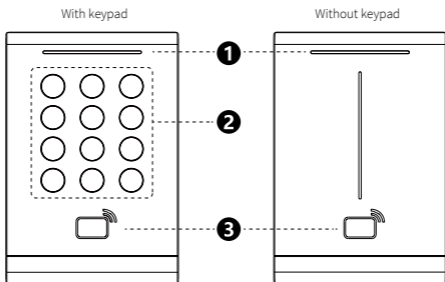


2 Without keypad



2.2 Structure

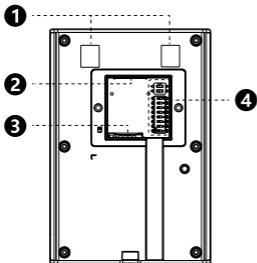
1 Front



1. Indicator	2. Keypad area
3. Card reading area	

2 Back

Devices with or without keypad have the same back design.



1. Bracket mounting groove.	2. Tail cable interface, see 2.3 Tail Cable
3. PSAM card slot	4. DIP switches, see 5DIP Switch Settings.

2.3 Tail Cable

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

Color	Label	Description	Color	Label	Description
Black	GND	Grounding interface	Blue	WIEGAND_BUZZER	Buzzer control
Red	VDD12V	Power interface	Purple	WIEGAND_ERR	Red LED control
Orange	RS485_A	RS485 interface	Pink	WIEGAND_OK	Green LED control
Yellow	RS485_B		Green	WIEGAND_OUT_D1	Wiegand output interface
White	TAMPER	Report tamper alarms to the control client	Brown	WIEGAND_OUT_D0	

2.4 Status Description

Indicator Light	Sound	Description
Blinks blue, green, and red once each in sequence	One beep	Startup successful
Steady blue	/	Normal operation
Steady green for 1s	One beep/two beeps	Card authentication successful
Steady red for 1s	Three beeps	Card authentication failed
/	Constant beeps	Tamper alarm triggered

3 Device Installation

3.1 Installation Preparation

- Cable management: Plan the cable routing in advance before installation.
- Tools: Prepare a Phillips screwdriver.

3.2 Installation Steps



NOTE!

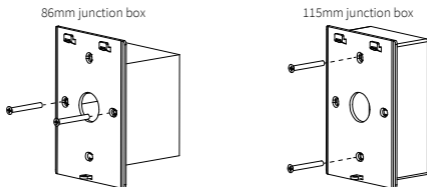
- The card reader needs to be installed with a 86*86mm/115*73mm junction box (both prepared or purchased by user). Please choose appropriate accessories according to the actual installation environment.
- The installation methods of card readers with or without keypad are the same. The following takes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

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 junction box should be horizontal. The two installation holes on the 115mm junction box should be vertical.

2. Secure the bracket.

- (1) Place the bracket with the protruding side facing outward, aligning the two central holes with the holes on the 86mm junction box (align the top and bottom holes with the holes on the 115mm junction box).
- (2) Secure the bracket to the 86mm junction box (or 115mm junction box) with two M4*35 (6#-32-16) cross-recessed flat head screws.

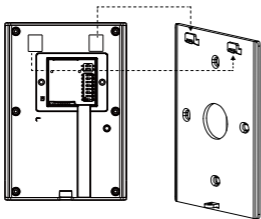


3. Connect the tail cable.

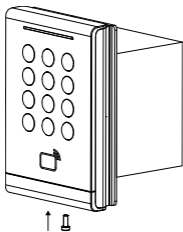
- (1) Connect the tail cable according to the actual networking.
- (2) Use two M2.5 cross-recessed flat head screws to secure the tail cable cover plate (with the rubber pad side facing inward) to the back of the card reader.
- (3) Thread the excess cables through the central round hole of the bracket and hide them inside the 86mm/115mm junction box.

4. Secure the card reader to the bracket.

- (1) Align the groove on the back of the card reader with the protrusion on the top of the bracket and insert it, ensuring that the bottom screw holes of the bracket align with the bottom screw holes of the card reader.



- (2) Screw in one M3 truss head security screw from the bottom screw hole to ensure the card reader is securely fastened to the bracket.



4 Startup

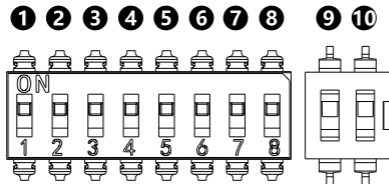
After the device is installed correctly, connect one end of the power adapter (user-purchased or prepared) to the card reader's power cable and the other end to a mains power outlet.

If the indicator light blinks blue, green, and red once each in sequence with a beep, the device has started successfully.

5 DIP Switch Settings

The card reader supports Wiegand and RS485 communication modes.

You can switch modes and adjust parameters through the DIP switches located on the back of the device.



No.	Description
1-4	RS485 address bit (Switch No.5 must be ON)
5	Switch card reader mode ON: RS485 mode; OFF: Wiegand mode (default)
6	Switch Wiegand protocol (Switch No.5 must be OFF) ON: Wiegand 26; OFF: Wiegand 34 (default)
7	RS485 termination resistor (Switch No.5 must be ON): For long-distance (> 500m) and high-speed (> 1Mbps) communications. This is used to strengthen signal strength and ensure communication quality. ON: Connect resistor; OFF: Not connect resistor (default)
8	Enable/disable card security function <ul style="list-style-type: none"> • ON: Enables encrypted authentication for enhanced security. Supports reading data from CPU cards. Does not support door opening through NFC emulated cards. • OFF: Disables encrypted authentication. Only reads the card's physical ID number. Supports door opening through NFC emulated cards.
9-10	Reserved

Refer to the table below to set RS485 address.

Address	No. 1	No. 2	No. 3	No. 4
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF

Address	No. 1	No. 2	No. 3	No. 4
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON