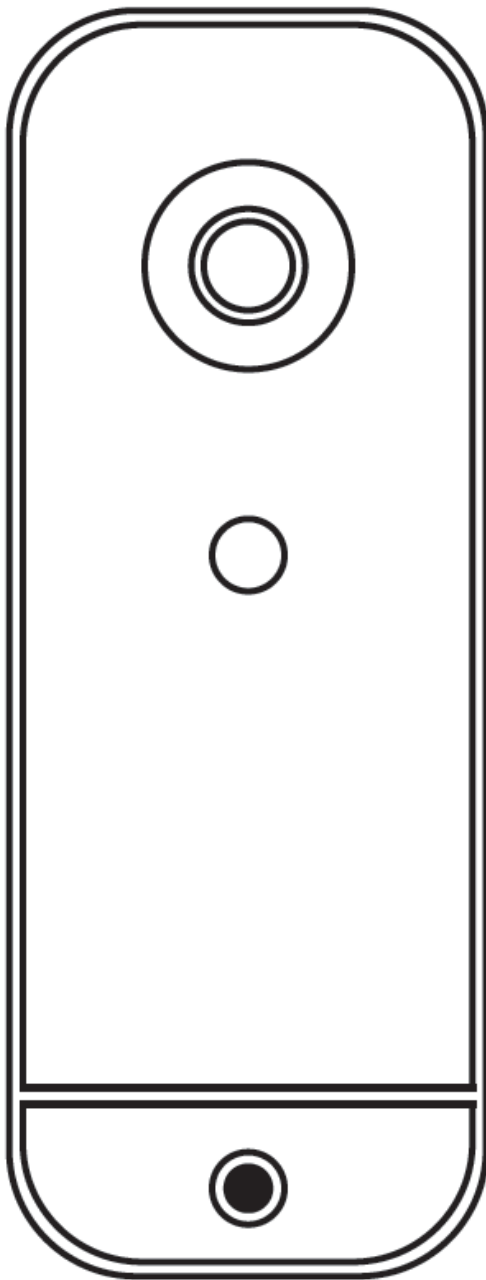


Quick Install Guide




ANAVIO Unified Intercom Reader

VA-UIR02A



WARNING

- This reader operates at PoE (IEEE 802.3af).
- Installation and service should be performed only by qualified and experienced technicians and comply with all local codes and rules to maintain your warranty.
- We are NOT liable of any damage arising either directly or indirectly from inappropriate installation which is not depicted within this documentation.
- To reduce the risk of fire or electric shock, do not expose the product to an environment that exceed IP65 rating.
- Wipe the reader with a dry soft cloth. For tough stains, slightly apply a diluted neutral detergent and wipe with a dry soft cloth.
- Do not apply benzene or thinner to the reader, which may cause the surface to melt or lens to fog.
- Avoid aligning the lens with extremely bright objects (e.g., light fixtures) for long periods of time.
- Avoid operating or storing the reader in the following locations:
 - Extremely humid, dusty, or hot/cold environments (recommended operating temperature: -4 to 122° F/-20°C to +50°C)
 - Close to sources of powerful radio or TV transmitters
 - Close to fluorescent lamps or objects with reflections
 - Under unstable or flickering light sources

| | |
|---|--|
|  CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THE UNIT. |
| CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. |  THIS SYMBOL INDICATES THAT IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS ACCOMPANY THIS UNIT. |



WEEE (Waste Electrical and Electronic Equipment). Correct disposal of this product (applicable in the European Union and other European countries with separate collection systems). This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Class 1 Laser Product/Consumer Laser Product, EN 506889:2021; IEC 60825-1:2014

FCC COMPLIANCE STATEMENT

Information to the user: This unit has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15B 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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This unit generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this unit does cause harmful interference to radio or television reception, which can be determined by turning the unit 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 unit and receiver.
- Connect the unit to 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.

CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the unit.

Radiation Exposure Statement

The product complies with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

CE STATEMENT

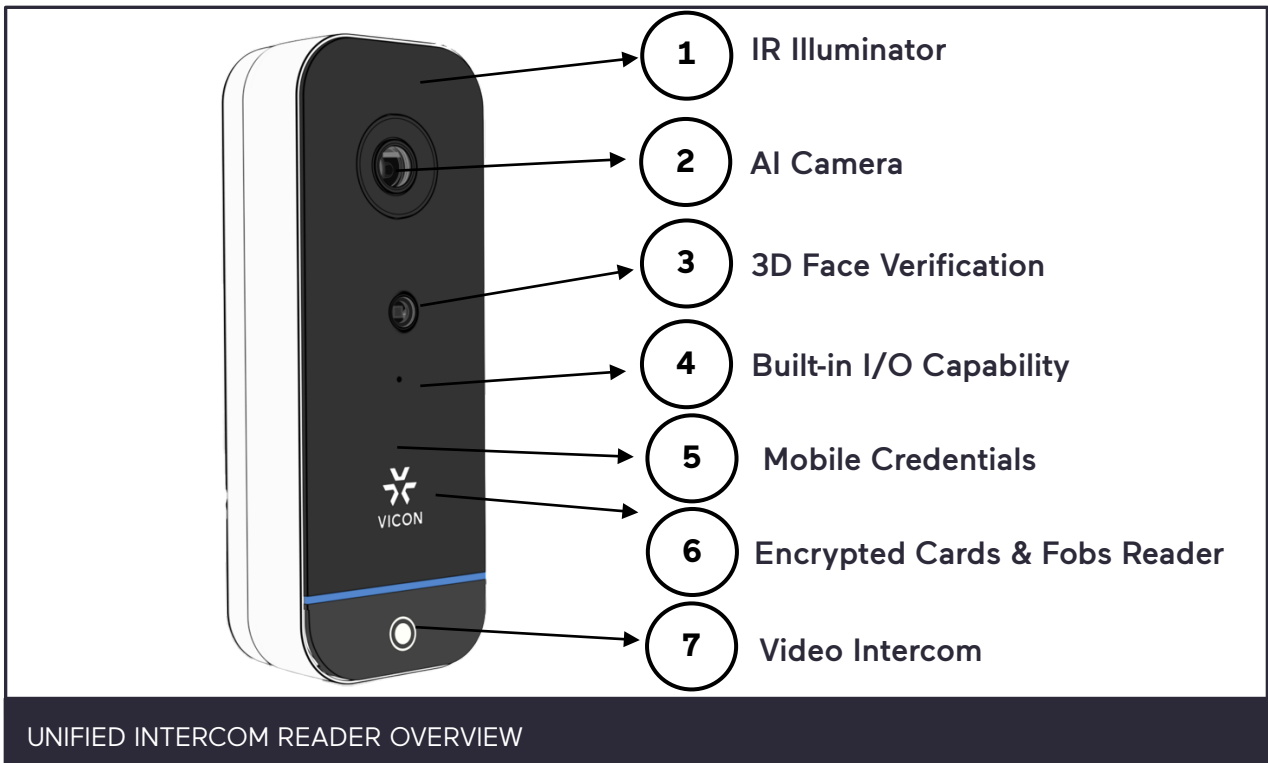
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The manufacturer declares that the unit supplied with this guide is compliant with the essential protection requirements of EMC directive 2014/53/EU issued by the Commission of the European Community Declaration of Conformity conforming to requirements of standards EN 55032 for emission, EN 50135 for immunity, EN 301489-1/-3/-17, EN 300 328, and EN 300 330 and EN 62311.

This product is IP65 rated for outdoor environments and IK07 rated for impact protection. The reader also meets regulations required to be NDAA, GSA schedule and TAA approved.

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1. PRODUCT OVERVIEW



STATUS COLOR LEDS AND AUDIO MESSAGES

Device Status



Blinking Blue

Device is booting. It will blink, then turn off for a 30-second lapse.



Solid Blue

Device has booted. Wait 10 seconds to use the device to allow it to reach standby status.



Blinking Green

The device is attempting an update. Please do not use or disconnect.

Access Status



Solid Green

A user has been verified and granted access.



Solid Blue

Device has booted. Wait 10 seconds to use the device to allow it to reach standby status.



Solid Red

An unauthorized user is trying to access and has been denied.



Blinking Yellow

Device is detecting a user, and the face is being authenticated.



Blinking Red

The alarm has been triggered or a Spoof Attack is being attempted.

Audio Messages



Solid Green

"Access granted."



Solid Red

"Access denied."

"Access denied; this device is currently in lockdown."

"Access denied; you are not scheduled to open this door right now."



Blinking Yellow

"Verification key sent via text or email."

2. INSTALLATION AND MOUNTING

PACKAGE CONTENTS

Ensure all items listed below are included in the packing box.

- Unified Intercom Reader (Qty 1)
- Wall mount (Qty 1)
- Plastic anchors (Qty 2)
- M3.5 x 25 screws (Qty 2)
- L-shaped security screwdriver (Qty 1)
- 1N4007 diode (Qty 1)
- RJ-45 IP66 waterproof cover
- Anavio instruction card

INSTALLATION

The following tools might be helpful for completing the installation:

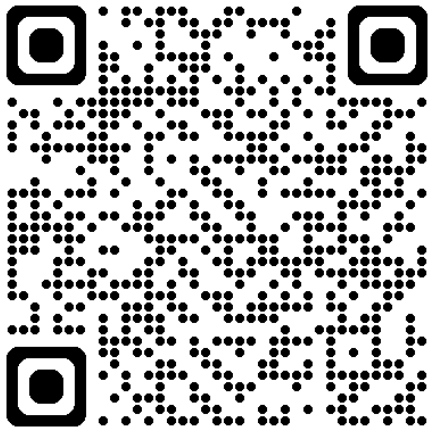
- Drill
- Level
- Measuring tape
- Wire stripper/cutter
- #2 Phillips screwdriver
- 2.0 mm or 1.5 mm precision slotted screwdriver
- Working internet connection [uplink/downlink]

CHECKING APPEARANCE

When unpacking, check to see if there is any visible damage to the appearance of the reader and its accessories. Remove the protective materials from the device after every item is properly checked in accordance with the list in **PACKAGE CONTENTS**.

SETTING UP ANAVIO ACCOUNT

Be sure to create an Anavio account at [Anavio](https://app.anavio.ai/signup) (<https://app.anavio.ai/signup>) or by scanning the QR code below. The Reader is added to that account.

A screenshot of the Anavio Sign Up form. The form is set against a dark background and features the Anavio logo at the top. Below the logo, the text "Sign Up" is centered. The form includes several input fields: "Account name", "First name", "Last name", "Email", and "Phone Number". The "Phone Number" field has a dropdown menu for country codes, currently showing "+1" with a US flag icon. Below the input fields, there is a line of text: "By clicking Create Account, I agree to Anavio's [Terms of Service](#)." At the bottom of the form, there is a "Create Account" button and a link: "Already have an account? [Sign In](#)". At the very bottom of the screenshot, the copyright notice "Copyright © Anavio 2024 ver 1.0.15" is visible.

INSTALLATION BEST PRACTICES

For ADA compliance, install the Unified Intercom Reader 48" from the floor on a flat surface or single gang box.

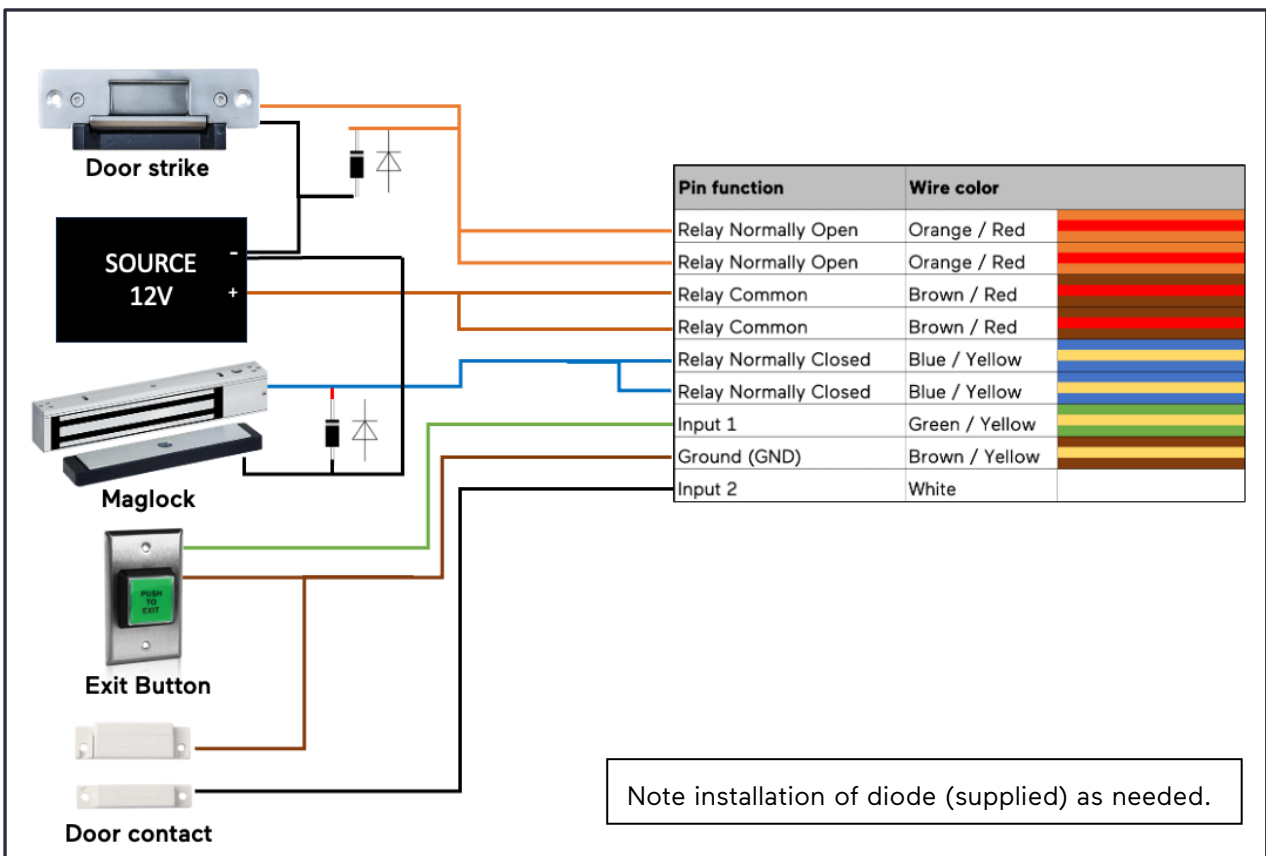


WIRING CHART

Use the wiring chart and example that follow, as needed, when installing the Reader.

| Wire color | Name | Description | Connection |
|----------------|----------|-----------------------|----------------------------------|
| Orange / Red | NO | Relay Normally Open | Lock |
| Brown / Red | COM | Relay Common | Lock |
| Blue / Yellow | NC | Relay Normally Closed | Lock |
| Green / Yellow | IN1 | Input 1 | REX / Exit Button |
| Brown / Yellow | GND | Ground | REX / Exit Button |
| White | IN2 | Input 2 | Door Contact |
| Orange / White | RS485-A | RS485 / OSDP | Secure I/O, 3rd Party Controller |
| Green / White | RS485-B | RS485 / OSDP | Secure I/O, 3rd Party Controller |
| Black | GND | RS485 / OSDP | Secure I/O, 3rd Party Controller |
| Brown / White | WD-IN 1 | Wiegand Input 1 | 3rd Party Reader |
| Blue / Black | WD-IN 0 | Wiegand Input 0 | 3rd Party Reader |
| Black | GND | Ground | 3rd Party Reader / Controller |
| Orange / Black | WD-OUT 1 | Wiegand Output 1 | 3rd Party Controller |
| Green / Black | WD-OUT 0 | Wiegand Output 0 | 3rd Party Controller |

WIRING EXAMPLE



DIRECT WALL INSTALL

1. To mount directly to a wall, use the mounting plate to mark mounting holes and the center cutout. Use the marks to drill pilot holes for the mounting plate.
2. Cut an opening into the wall at the center cutout to feed Reader pigtail (RJ-45 Ethernet connector and I/O wires) through.
3. Use the provided two (2) screws to attach the mounting plate to the wall. Use a level to assure proper mounting.



4. Connect Ethernet and I/O if used; strip and connect wires as necessary; refer to the wiring diagram. It is recommended to cut off stripped/tinned ends of any unused wires. Power is provided through an RJ-45 connector using a PoE PSE (Power Sourcing Equipment) input that meets the standard IEEE 802.3af (48V, 200mA standard). Install the waterproof RJ-45 cap as needed per the installation.
5. Feed the pigtail cable through the cutout opening in the back of the mount and snap the Unified Intercom Reader into the mounting plate.



6. Secure the Reader by tightening the captive screw on the mounting plate.



GANG BOX INSTALL

1. Install a recessed single gang box into the wall.
2. Use the appropriate screws to attach the mounting plate to the gang box.



3. Connect Ethernet and I/O if used; strip and connect wires as necessary; refer to the wiring diagram. It is recommended to cut off stripped/tinned ends of any unused wires. Power is provided through an RJ-45 connector using a PoE PSE (Power Sourcing Equipment) input that meets the standard IEEE 802.3af (48V, 200mA standard).
4. Feed the pigtail cable into the gang box through the cutout opening in the back of the mount and snap in the Unified Intercom Reader onto the mounting plate.

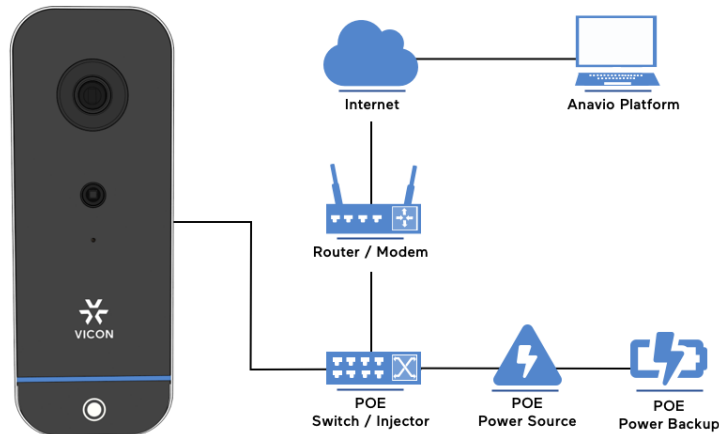


5. Secure the Reader by tightening the captive screw on the mounting plate.



3. ANAVIO SYSTEM SETUP

Now that the Reader is installed, the LED is in solid blue color state. and can be deployed on the Anavio account.



IP CONFIGURATION

Devices are set to get an automatic IP address via DHCP. If it is necessary to connect via manual IP, first plug the device to a DHCP enabled network to get it connected to the Anavio cloud software. From the settings, assign the IP manually. Note that if this IP has a different subnet segment as the one that was assigned through DHCP, the device won't be able to be accessed until it is in the new network.

To connect directly to the Anavio cloud software, an active internet connection is required. If the reader is in a managed network, firewalls, or any other security method that might restrict internet ports, make sure to contact the network administrator to open the following ports and domains:

- Device Communications Port number: 8883
- Software Communications Port number: 443
- STUN Protocol Port number: 3478

For additional information, visit help.anavio.ai for instructions.



Vicon Industries Inc. does not warrant that the functions contained in this equipment will meet your requirements or that the operation will be entirely error free or perform precisely as described in the documentation. This system has not been designed to be used in life-critical situations and must not be used for this purpose.

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