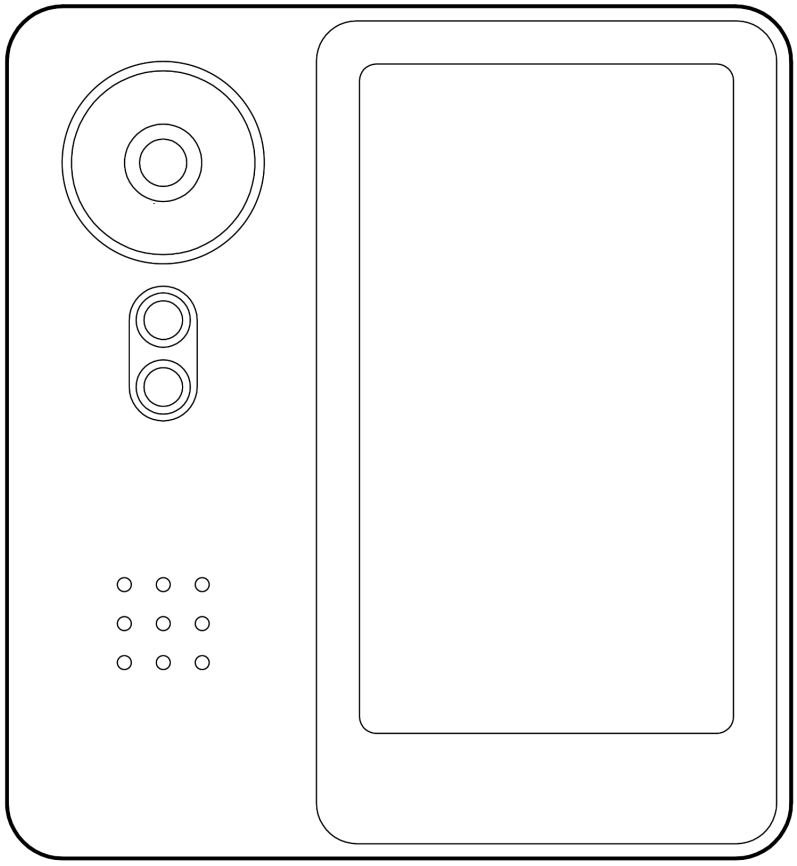
Install Guide

AF64 Access Station Pro



Document

Document Details

Version

V1.0 20260213
(V1.0 published 20260213*)*

Firmware

Firmware version can be verified on Verkada Command command.verkada.com.

Product Models

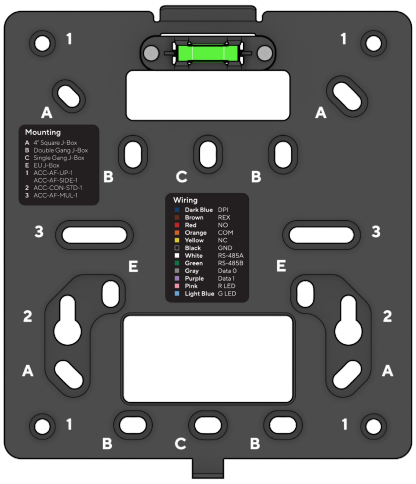
This install guide pertains to models AF64-HW

Introduction

Sensor Resolution	5MP (2592 x 1944)	
Lens Type	Fixed	
Image Sensor	1/2.8" Progressive CMOS	
Focal Length	2.12mm	
Iris	Fixed	
Aperture	F2.1	
Field of View	Horizontal: 130° Vertical: 100° Diagonal: 160°	
IR Range	15m / 50ft in low light	
Inputs	1x REX input 1x DPI input	
Relay Output	1x dry relay, 30V @ 1A (resistive load)	
Outputs	1x RS-485 output (RS-485 A, RS-485 B)	
Dimensions	153 mm (H) x 141 mm (W) x 34 mm (D)	
Weight	804g	
Power Input	IEEE 802.3at PoE+	
Power Consumption	25.5W	
Connectivity	Ethernet: 10/100/1000Mbps RJ-45 cable connector for Network/PoE connection	
Operating Temperature	-40˚C - 50˚C 5-90% RH non-condensing	
Ratings	IP65, IK06	
Tamper Detection	Yes	
Controller Compatibility	Runs directly on AF64 or via RS-485 or LAN connection to a Verkada access controller	
Supported Credential Technologies	Low Frequency (125 hHz) High Frequency (13.56 MHz) Mobile NFC (13.56MHz)	Bluetooth Low Energy (2.4GHz) Face Unlock Pincode (4 to 16 digits)
Face Unlock	Authentication range: 0.3m up to max 1.5m Authentication height: 1.0-2.0m	Maximum number of faces: 25,000 3D+IR liveness detection
Display	5.5" IPS color LCD capacitive touchscreen (1280x720)	
Included Accessories	Surface mounting plate, T10 screwdriver, 4x 1" wall screws, 4x 1" wall anchors, 4x 8-32x1" junction box screws, 4x 6-32x1" junction box screws, grommet punch, I/O cable	
Mounting Options	Surface mount plate (included) for wall or junction box mounting	

What's in the Box

Access Station Pro



Mount Plate

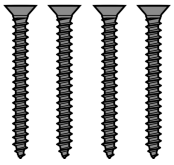
T10 Torx Security Screwdriver

8-32 Machine Screws (4 pcs)
Length: 1" **Drive:** Phillips

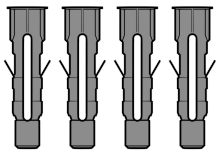
6-32 Machine Screws (4 pcs)
Length: 1" **Drive:** Phillips

Grommet
(Attached to device)

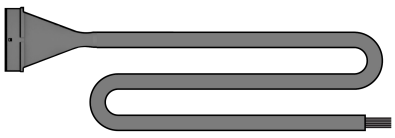
Grommet Punch



Wall Mount Screws (4 pcs)
Length: 1.5" **Drive:** Phillips



Wall Anchors (4 pcs)



I/O Cable

What you'll need

- A smartphone or laptop
- A #2 Phillips head and power drill
- 1/4 inch (6mm) drill bit for wall anchors
- 5/64 inch (2mm) drill bit for pilot holes
- A Cat5 or Cat6 Ethernet cable with a 0.2-0.25 inch diameter (5-6.5mm)

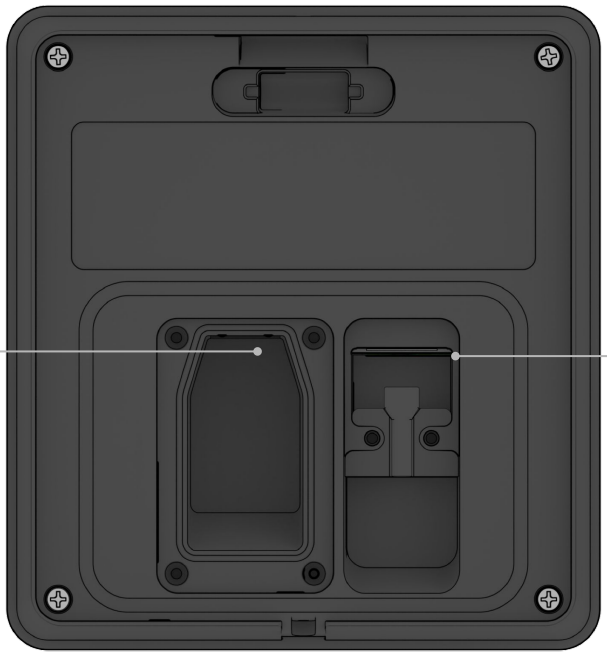
Commissioning

For easy registration and setup, scan the QR code on the product.

If you prefer to manually register your product, please proceed to: verkada.com/start

Overview


Status LED
Camera
3D+IR Sensor
Scan Area
& LED Matrix
Display


PoE In
Ethernet (RJ45)
I/O Port
Input/Output

Status LED Behavior

No Color
Device is running and online.

Solid Orange
Device is on and booting up.

Flashing Orange
Device is updating firmware.

Flashing Red
Specific error, see “Network errors” below.

Solid Red
Contact support.

Network Errors

A specific network error will be communicated through the Status LED which will flash a specific number of times depending on the error state.

Example of **5 Red** flashes on Status LED

1 Red - No IP Address
Camera has not received an IP address.

2 Red - Duplicate IP
Camera has detected duplicate IP addresses on the LAN.

3 Red - No Gateway
Camera is not able reach the configured Gateway.

4 Red - No Switch
Camera is connected with PoE, but unable to connect to the Switch.

5 Red - DNS Error
Camera is not able to resolve Verkada hostnames.

6 Red - NTP Error
Camera is not able to receive a response from the NTP Server.

7 Red - Not Connected to Command
Verkada endpoints are not reachable after boot up.

LED Matrix Behavior

White, Static
Powered and
connected to the ACU.

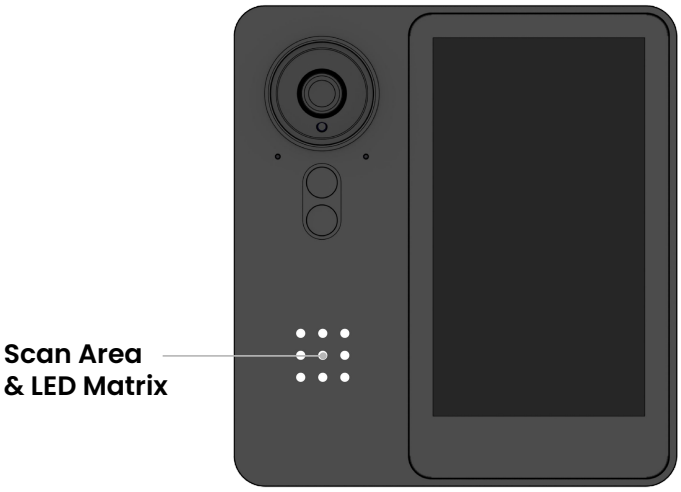
White, Cycling
Booting up.

Green, Temporarily
Successfully processed a user scan and granted access.

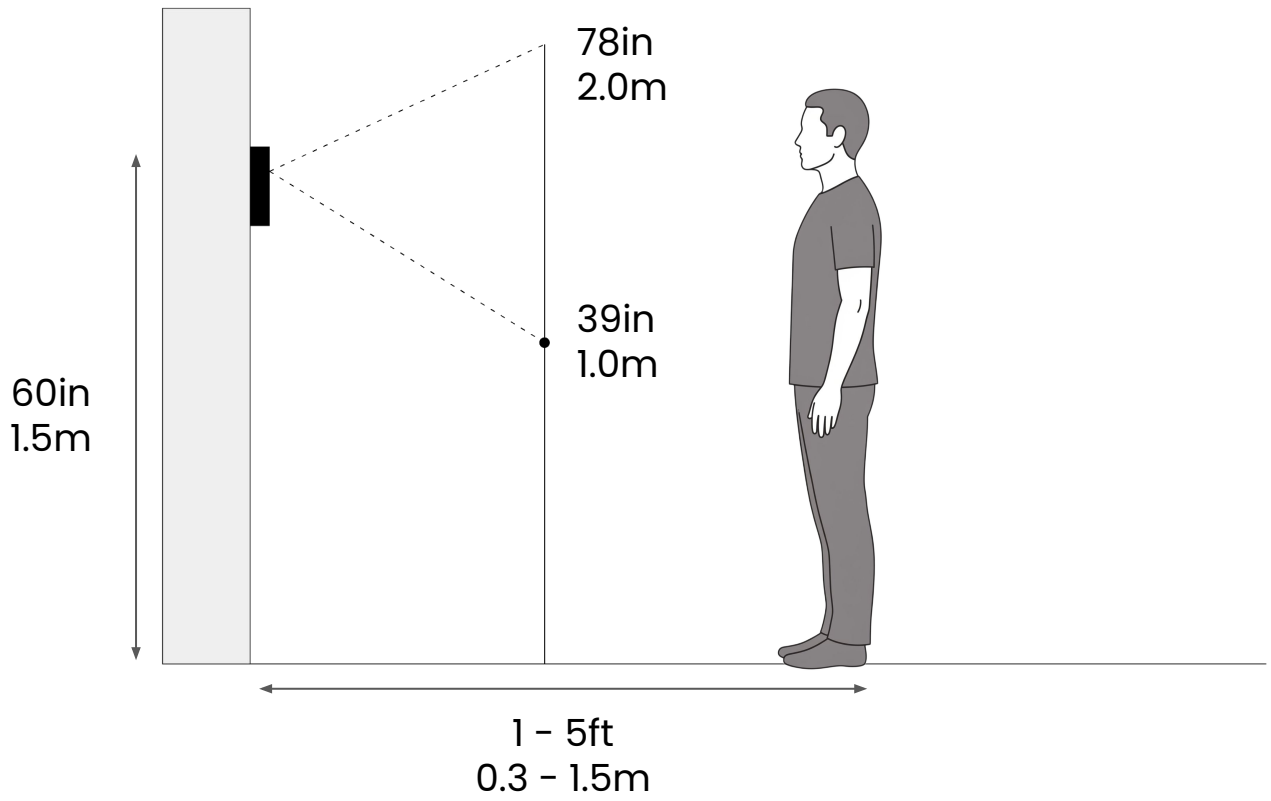
Green, Static
Unlock hold placed on door.

Red, Temporarily
Successfully processed a user scan and denied access.

Red, Pulsing
Emergency lockdown.



Placement



Ensure mounting placement is compliant with local building codes and regulations.

Positioning the top edge of the mounting plate approximately 60 inches (1.5 m) above the ground is the optimal height for Face Unlock. The height range for Face Unlock is approximately 39in (1.0m) to 78in (2.0m).

The minimum Face Unlock distance is 1ft (0.3m). The maximum Face Unlock distance is 5ft (1.5m) and can be configured closer in Command.

To ensure optimal performance, avoid installing the device in the following conditions:

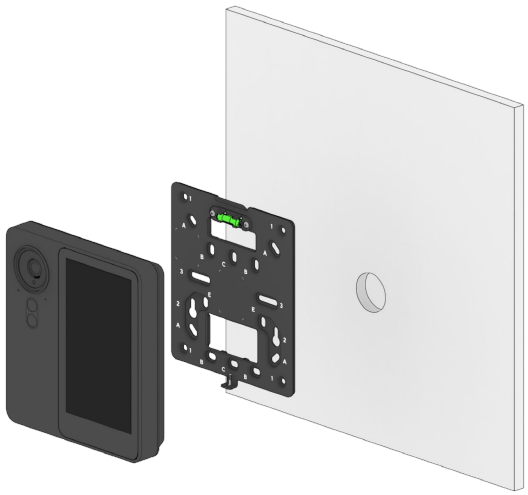
- Direct sunlight on the device
- Strong backlight or shadows

When using multiple devices, avoid positioning the devices to be directly facing one another.

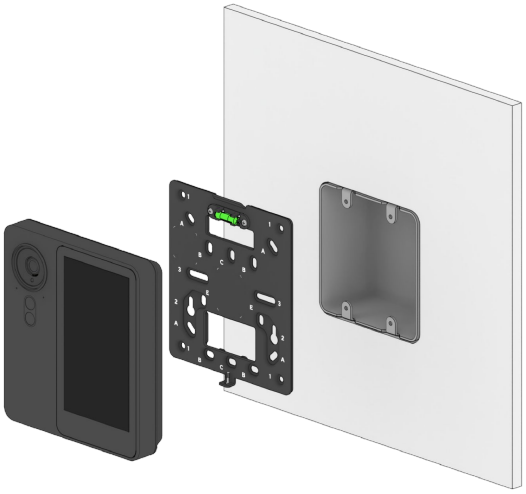
Mount Plate

The AF64 can be mounted directly to a wall or junction box using the included mount plate.

Wall Mounting

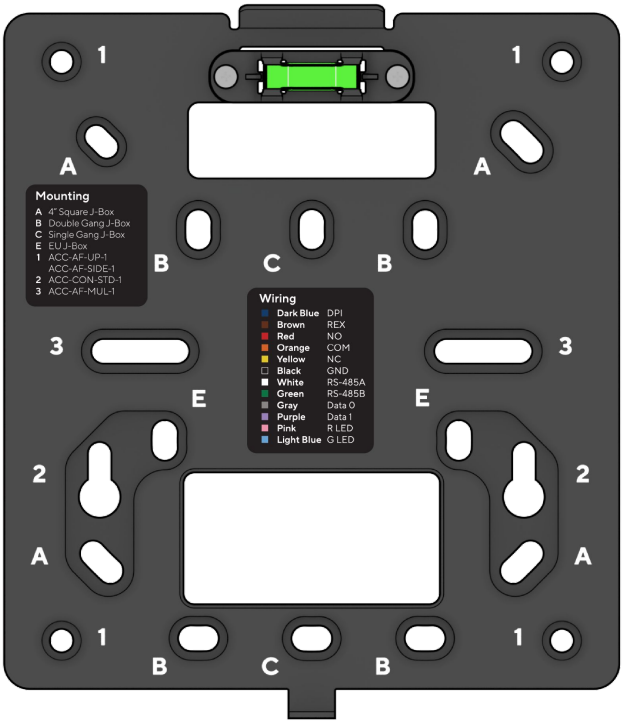


Junction Box Mounting



The mount plate has hole patterns for the following mounting conditions:

A Wall/Square Junction Box (4 inches / 101.6 mm)
B Double Gang Junction Box
C Single Gang Junction Box
E European Junction Box
1 ACC-AF-UP-1, ACC-AF-SIDE-1
2 ACC-CON-STD-1
3 ACC-AF-MUL-1



Mounting to Wall

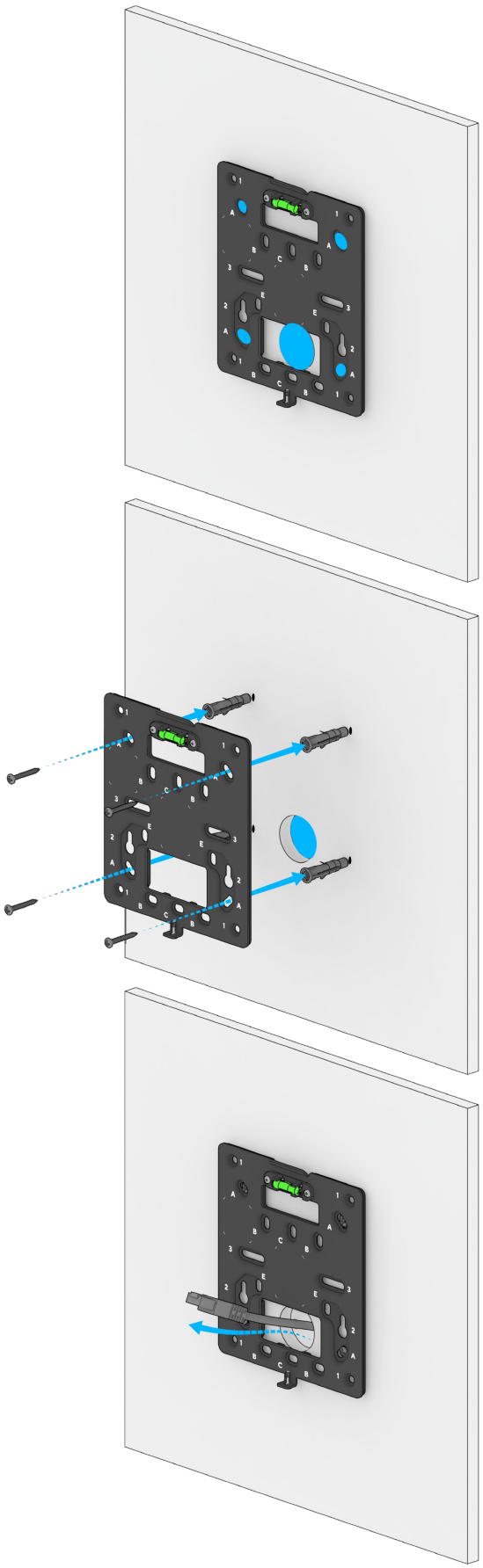
Use the mount plate as a template to mark **Hole Pattern A** and the pass-through hole location.

For the cable, drill a 7/8" (22mm) hole.

For the mounting holes, drill 5/64" (2mm) pilot holes. If using wall anchors, drill 1/4" (6mm) pilot holes.

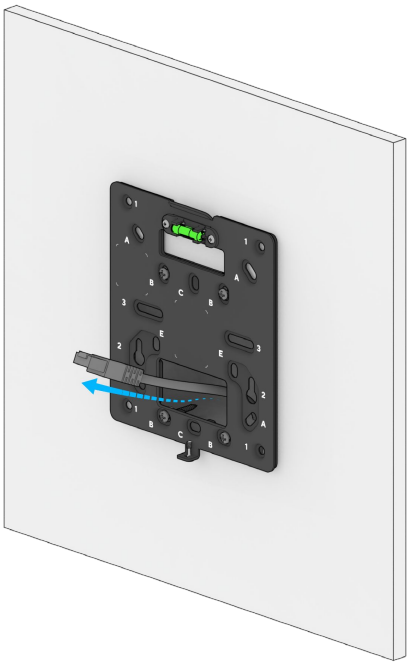
Drive the wall screws into the pilot holes to secure the mount plate to the wall.

Route the Ethernet cable through the pass-through hole.



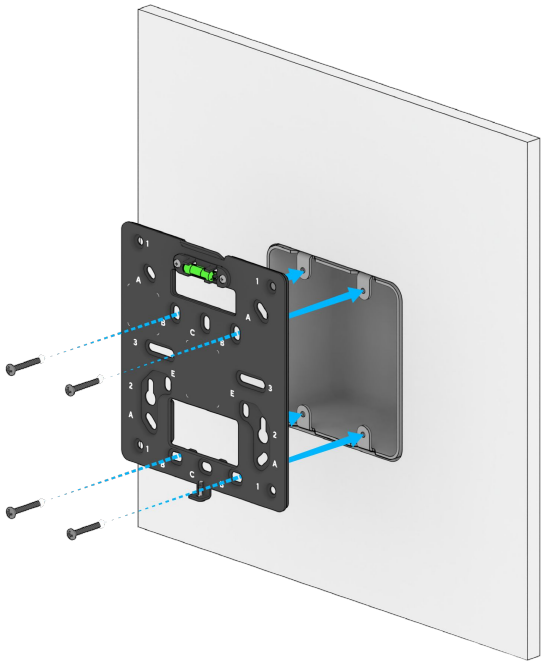
Mounting to Junction Box

Route the cable through the Mount Plate.

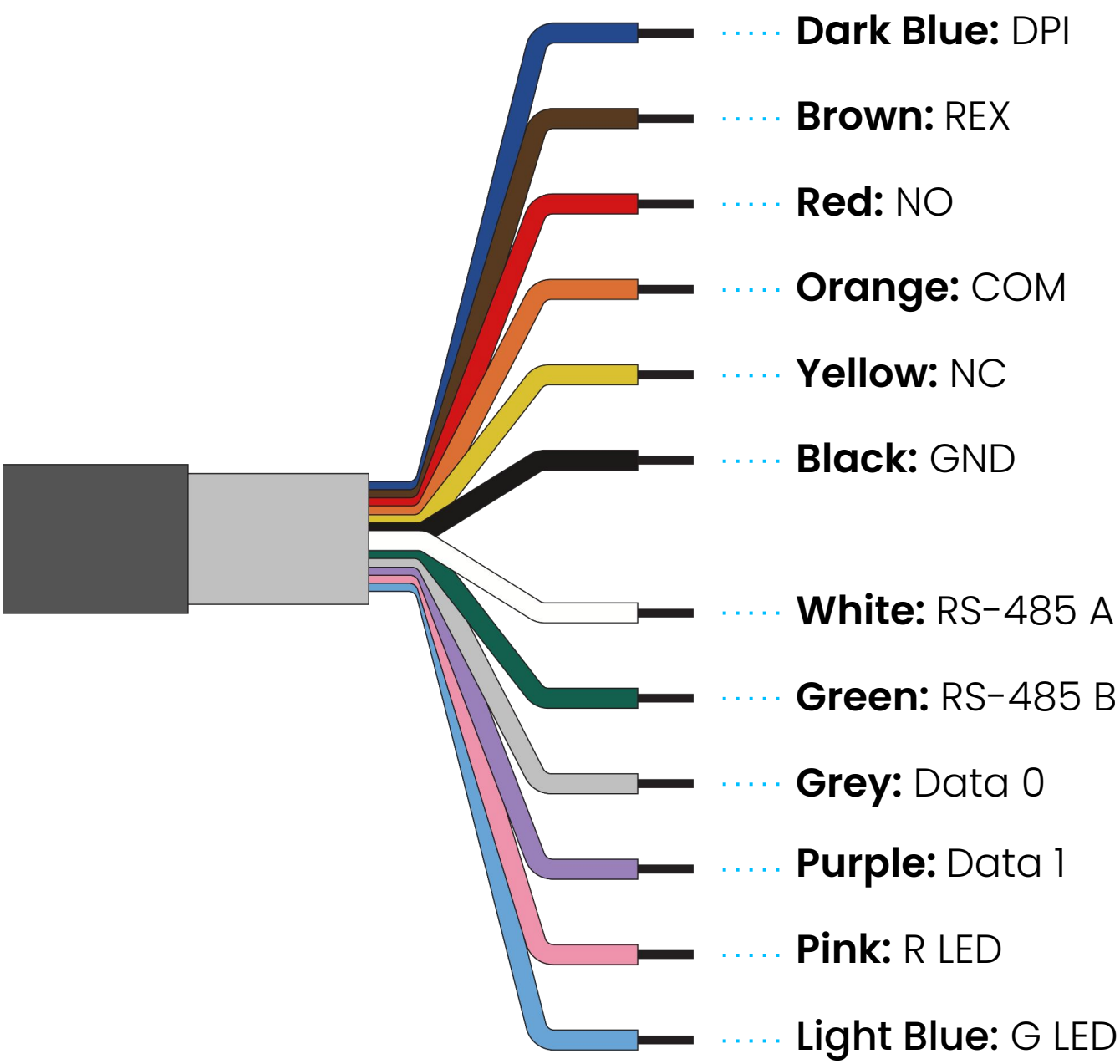


Align the Mount Plate to the Junction Box anchor holes (A, B, C or E, depending on your junction box)

Attach the Mount Plate to the Junction Box using the Machine Screws (either #8-32 or #6-32 screws, depending on your Junction Box).



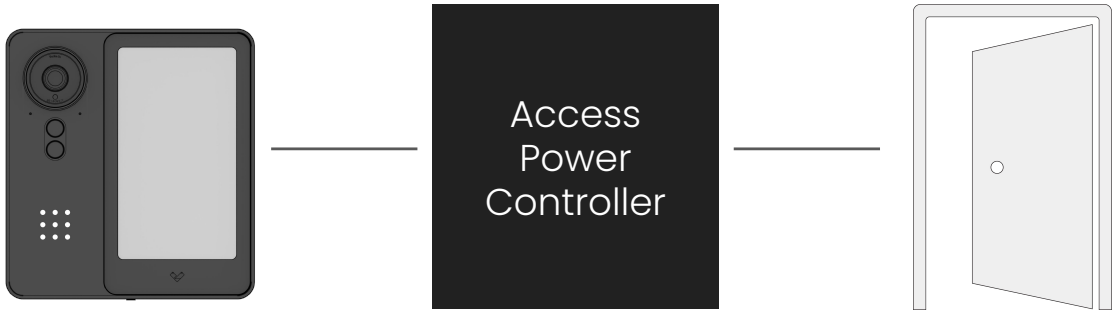
I/O Cable Overview



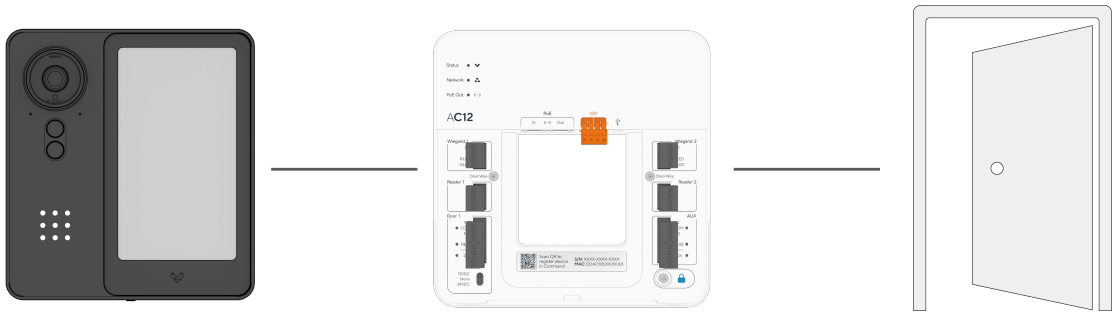
Door Wiring Options Overview

The device can be wired to the door in one of two ways:

Option 1: Connect as a standalone access controller



Option 2: Connect as a reader to a Verkada access controller over LAN or RS-485



If connecting the device to an access controller over the LAN, wiring the I/O cable is not necessary. Proceed to *Wiring Ethernet Cable*.

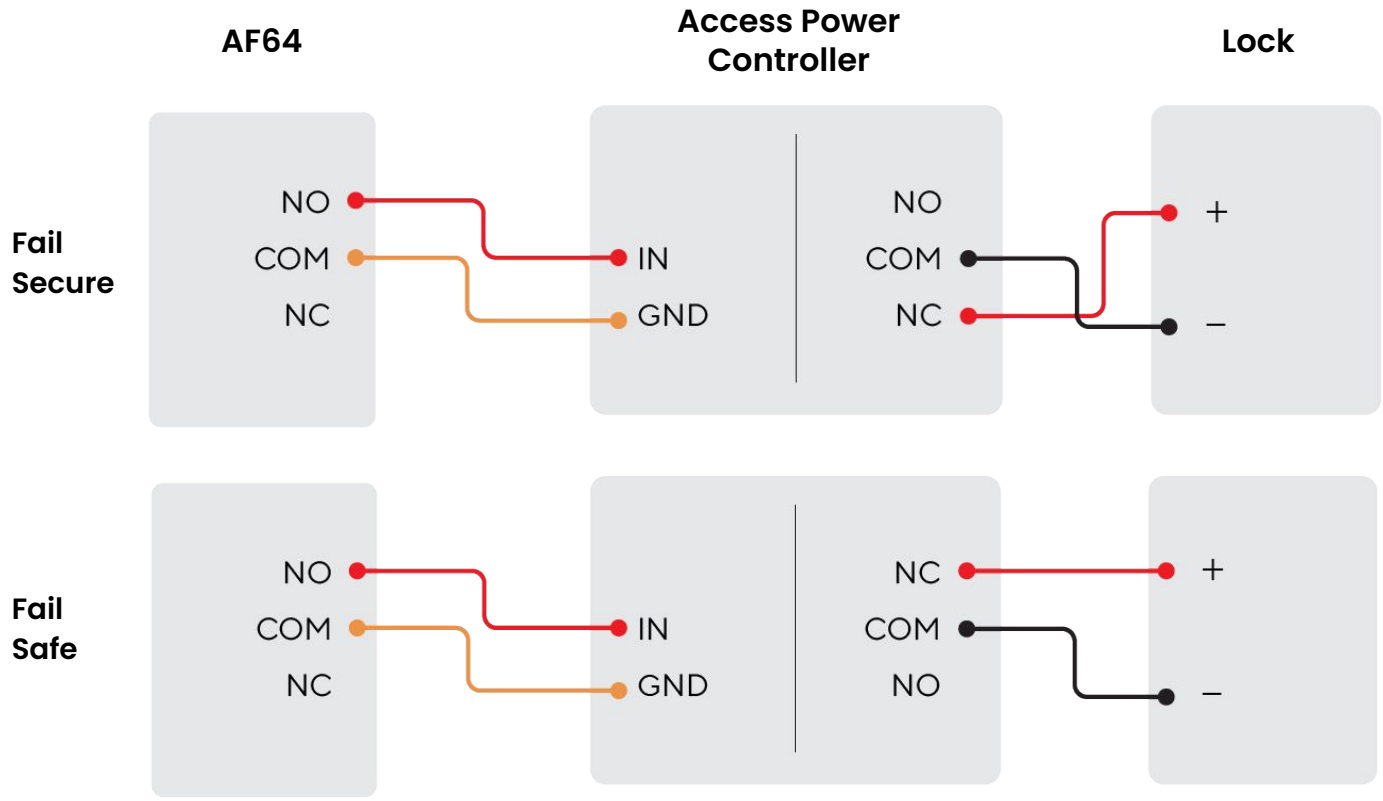
Wiring the Door 1/4

⚠ Warning

Ensure power is disconnected from the device before wiring any connections.

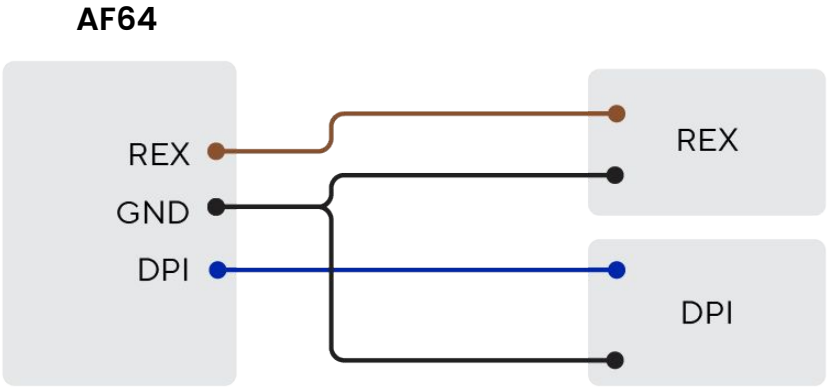
Option 1: Connect as a standalone Access Control Unit

The device can be set up as an access controller so that its relay controls the door lock. The door lock can be set up as Fail Safe or Fail Secure with an external power source.



Connect to DPI and REX

The device can be set up with a DPI and REX wired directly to the device.



Wiring the Door 2/4

⚠ Warning

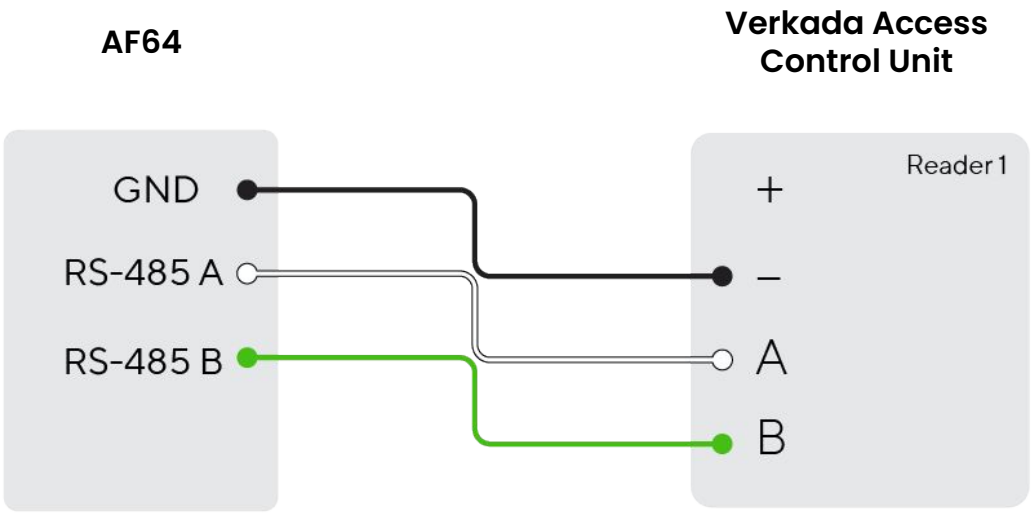
Ensure power is disconnected from the device before wiring any connections.

Option 2: Connect as a reader to a Verkada Access Control Unit
The device can be set up as a reader to a Verkada Access Control Unit (ACU).

In this configuration, the Door Lock, DPI, and REX should be wired to the ACU following the installation guide for the ACU.

The device can either be wired A) directly to the ACU over RS-485 or B) connect to the ACU via a LAN network connection.

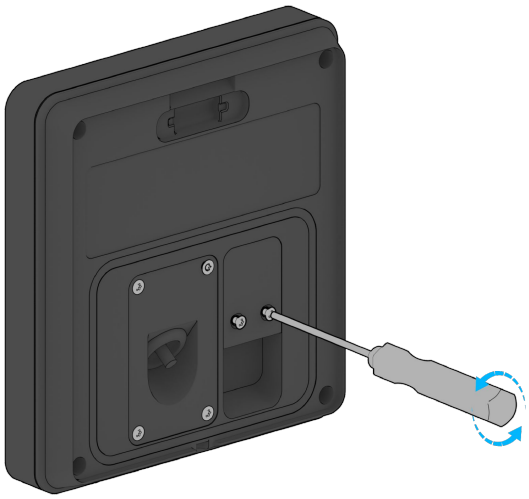
A) Direct RS-485 connection
Wire the I/O cable to the RS-485 port on the ACU.



B) Network connection
Wiring the I/O cable is not necessary.

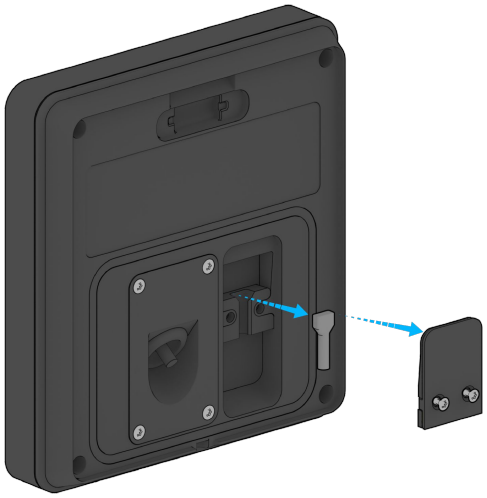
Wiring the Door 3/4

On the device, loosen the two screws on the I/O cable door with the T10 Torx Security Screwdriver.



Remove the I/O cable door to access the I/O port.

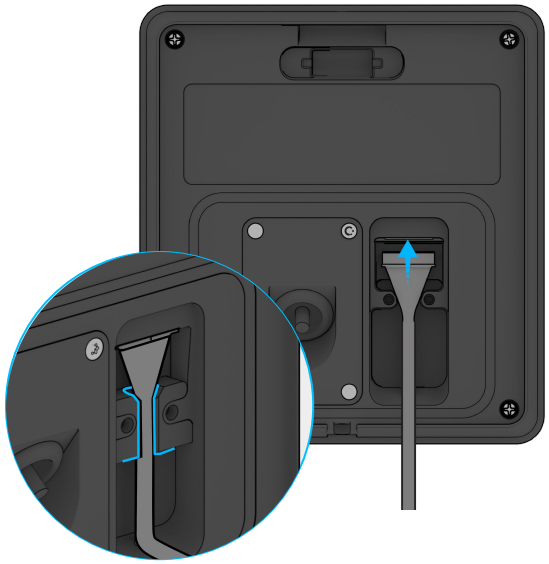
Remove the I/O cable plug from the I/O cable area.



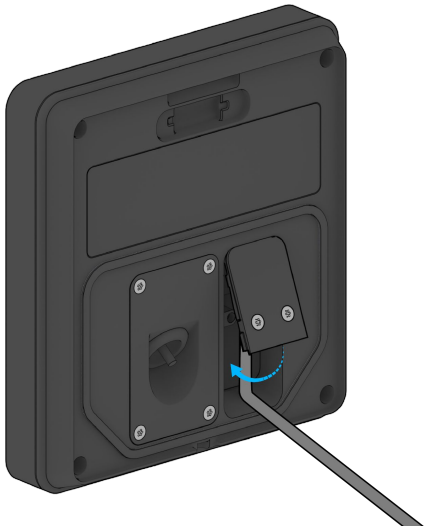
Wiring the Door 4/4

Plug the I/O cable into the I/O port on the device.

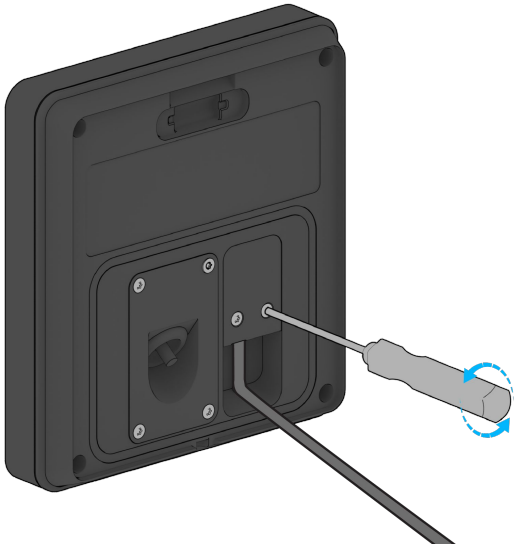
Press firmly on the connector to ensure it is fully seated.



Hook the I/O cable door cover onto the device and swing down to close the door.

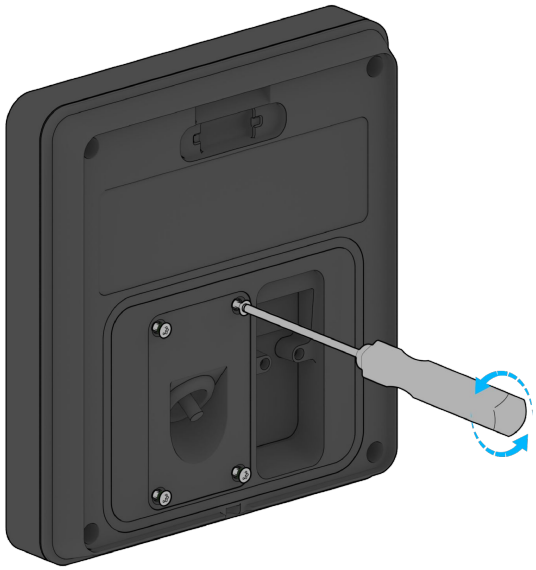


Secure the I/O cable door by tightening the two T10 Security Torx screws.



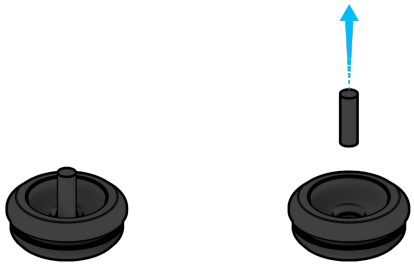
Wiring Ethernet Cable 1/2

On the device, loosen the four T10 Security Torx Screws on the Ethernet Cable Door (left). Remove the Ethernet Cable Door to access the Ethernet port.

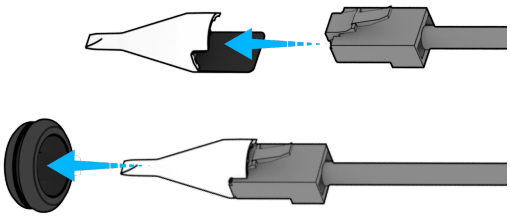


Remove the Grommet from the Ethernet cable door.

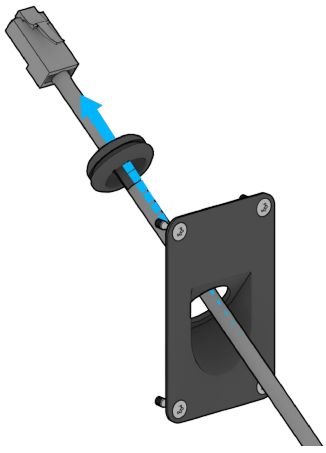
Remove the center of the Grommet by pulling firmly on the cylindrical tab.



Use the Grommet Punch from the Install Kit to route the Ethernet Cable Head through the Grommet.



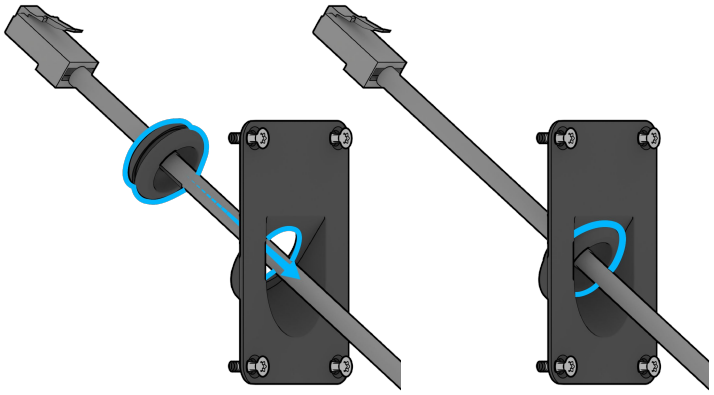
Thread the Ethernet cable and the Grommet through the opening on the PoE door.



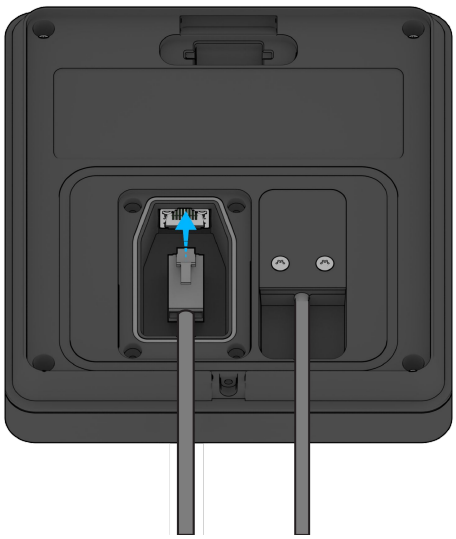
Wiring Ethernet Cable 2/2

Press the Grommet back into the Grommet hole on the Ethernet Cable Door.

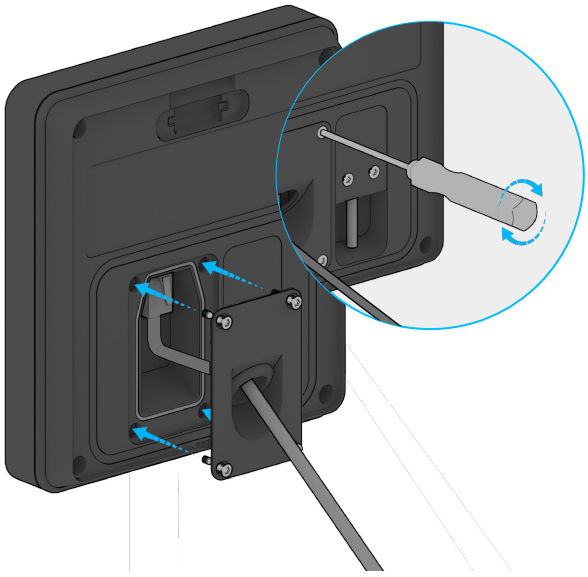
Make sure the Grommet is fully seated to ensure proper sealing.



Plug the RJ-45 cable into the Ethernet port on the device.

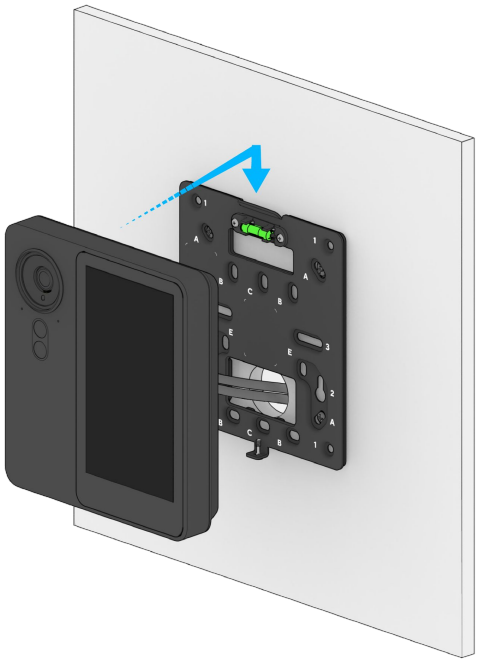


Secure the Ethernet Cable Door by tightening the four T10 Security Torx Screws at each corner.

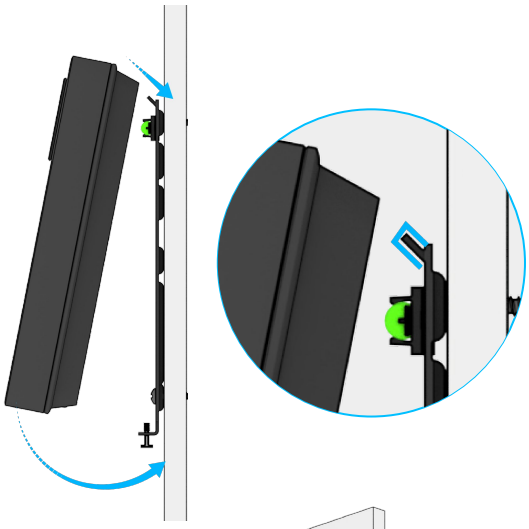


Secure

Guide the device onto the hook on the top edge of the mount plate.



Gently swing the bottom edge of the device down, against the mount plate. The device will settle in flush with the wall.



Secure the device by tightening the T10 Security Torx screws at the bottom of the mount plate using the T10 Security Torx Screwdriver.

Appendix

Compliance 1/2

FCC Statement	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. 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 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. **FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. **Radiation Exposure Statement:** The product comply with the FCC RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.
IC Statement	This device complies with ISED's licence-exempt RSSs. 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. Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable. **Radiation Exposure Statement:** The product comply with the Canada RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. **Déclaration d'exposition aux radiations:** Le produit est conforme aux limites d'exposition pour les appareils RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonne ment et votre corps.

Appendix

Compliance 2/2

IEC 62368-1	The device is only to be connected to PoE networks without routing to outside plants.
IEC 60825-1 :2014	Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019. Caution: These devices contain one or more lasers. Use other than as described in the user guide, repair, or disassembly may cause damage, which could result in hazardous exposure to infrared laser emissions that are not visible. This equipment should be serviced by Apple or an authorized service provider. CLASS 1 LASER PRODUCT

Appendix

Support

Thank you for purchasing this Verkada product. If for any reason you're experiencing issues or need assistance, please contact our 24/7 Technical Support Team immediately.

Sincerely,
The Verkada Team
verkada.com/support