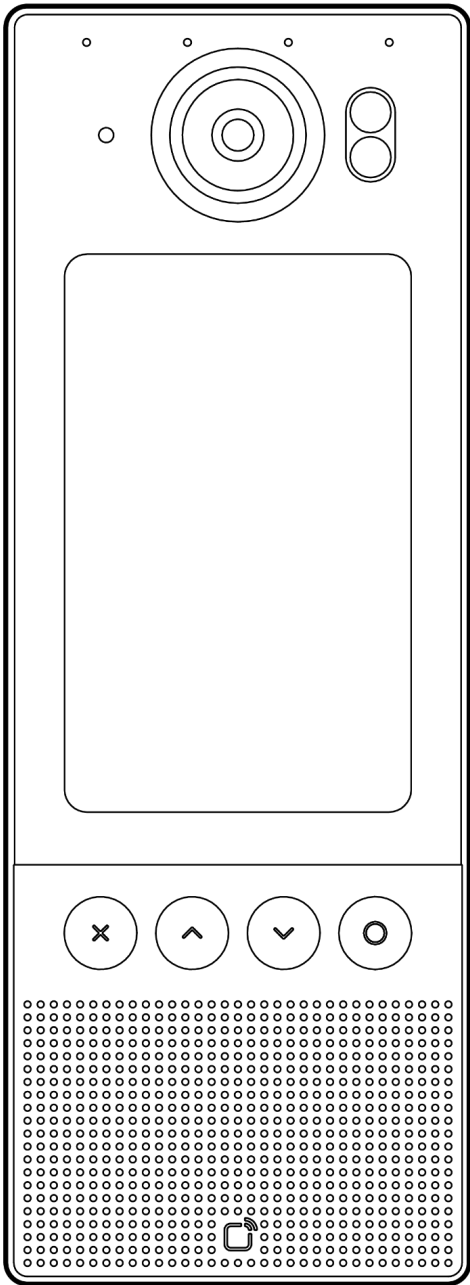


TK74 Touchscreen Intercom



Document Details

Version

V1.0 20260914

(V1.0 published 20260916)

Document ID: TK74 Install Guide

Firmware

Firmware version can be verified on Verkada

Command command.verkada.com.

Product Models

This install guide pertains to models:

- TK74-HW

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Introduction

Technical Specifications

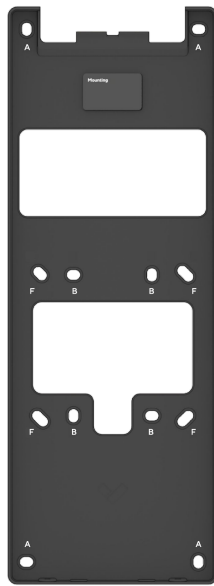
Sensor Resolution	5MP (2592x 1944)
Lens Type	Fixed
Image Sensor	1/2.8" Progressive CMOS
Focal Length	2.12mm
Iris	Fixed
Aperture	F2.0
Field of View	Horizontal: 130°; Vertical: 100°; Diagonal: 160°
IR Range	15m / 50ft
Onboard Storage	512GB
Audio Streaming	Two-way, full duplex with echo cancellation and noise suppression
Audio Output	5W speaker ; 90dB SPL at 1m / 3.3ft
Audio Input	4 omnidirectional digital MEMs microphones
Inputs / Outputs	3x dry inputs 2x dry relays, 30VDC @ 1A (resistive load) 1x RS-485 port
Dimensions	342 mm (H) x 124 mm (W) x 34 mm (D) (Not including rain hood) 13.46 in (H) x 4.88 in (W) x 1.34 in (D) (Not including rain hood)
Weight	2.3kg/5.1lb
Tamper Detection	Accelerometer
Resistance Rating	IK08, IP66
Operating Specs	IEEE 802.3at (PoE+): Operating Temperature: -20°C – 50°C / -4°F – 122°F IEEE 802.3bt (PoE++): Operating Temperature: -40°C – 50°C / -40°F – 122°F
Supported Credential Technologies	Low Frequency (125 kHz), High Frequency (13.56 MHz), Mobile NFC (13.56 MHz): Apple Wallet and Android NFC, Bluetooth Low Energy (2.4GHz), Face Unlock, Pincode (4 to 16 digits)
Face Unlock	Requires PoE++. 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	7" IPS color LCD capacitive touchscreen (800x1280), up to 1,000 nits
Compliance	For hardware certification information, please visit verkada.com/compliance
Connectivity	Ethernet: 10/100/1000Mbps RJ-45 cable connector for Network/PoE connection
Included Accessories	Surface mount plate, rain hood, T10 screwdriver, mounting hardware kit, grommet punch
Additional Accessories (Optional)	Conduit surface mount, side angle mount, flush mount (coming soon), up angle mount (coming soon), PoE over 2-wire converter, security relay

Introduction

What's in the box



**Touchscreen
Intercom**



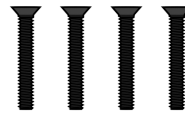
Mount Plate



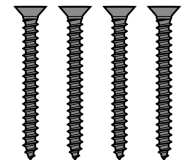
Rain Hood



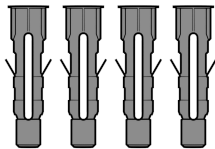
Junction Box Screws
#6-32 (4 pcs)
Length: 25.4mm Drive: #2 Phillips



Junction Box Screws
#8-32 (4 pcs)
Length: 25.4mm Drive: #2 Phillips



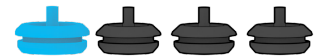
Wall Screws (4 pcs)
Length: 1.5" Drive: #2 Phillips



Wall Anchors (4 pcs)
Length: 25mm



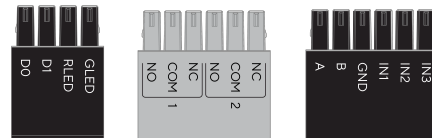
Grommet Punch



Grommets (4 pcs)
(Attached to Intercom)



T10 Torx Security Screwdriver

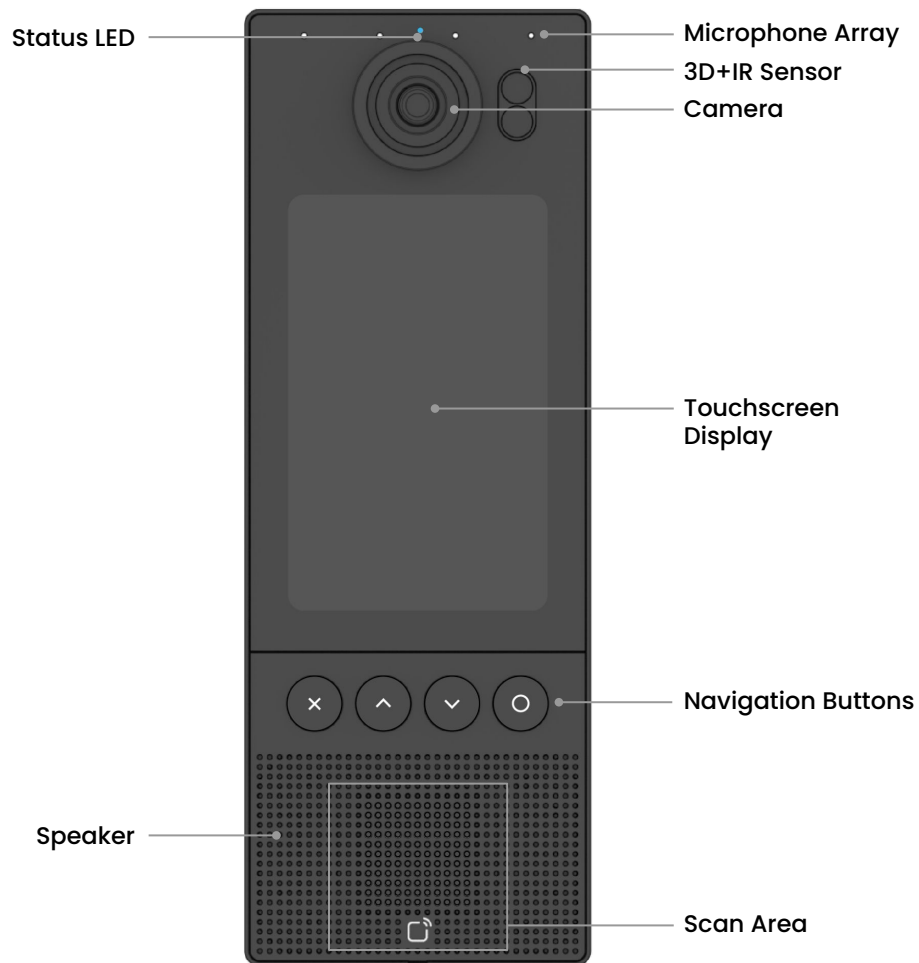


Terminal Blocks
(Attached to Intercom)

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 Cat5e or Cat6 ethernet cable with a 0.2-0.25 inch diameter (5-6.5mm)

Overview: Front



Status LED

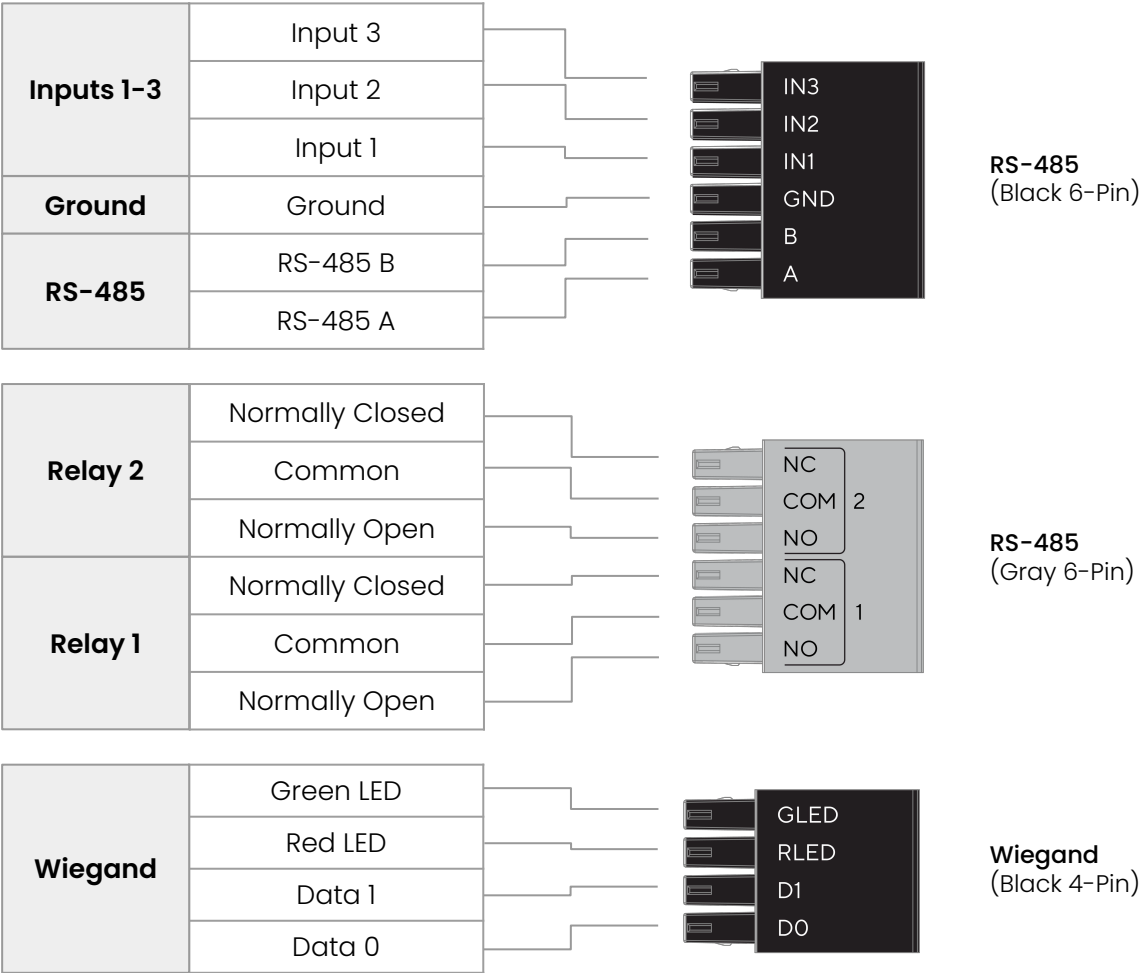
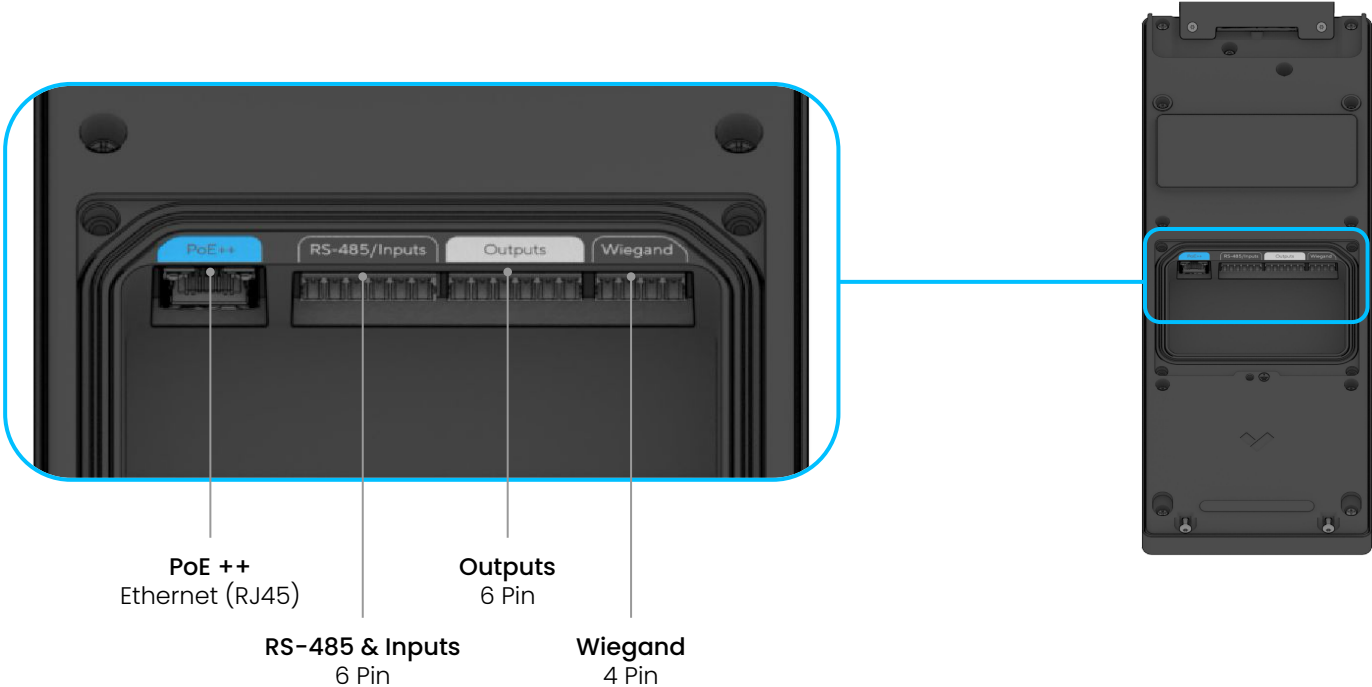
-  **Solid Orange**
Intercom is on and booting up.
-  **Flashing Orange**
Intercom is updating firmware.
-  **Solid Blue**
Intercom is running and online.
-  **Flashing Blue**
Intercom is running and offline.

Navigation Buttons

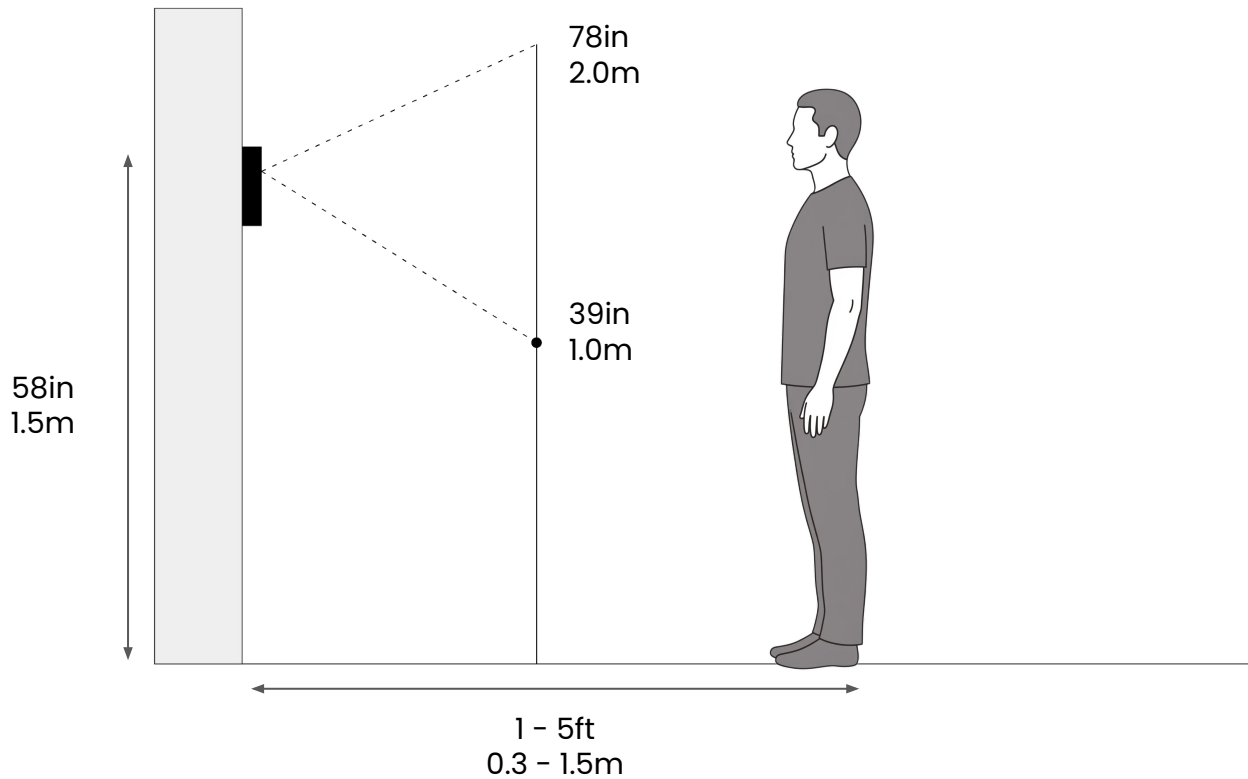
-  **Menu/End**
-  **Up Arrow**
-  **Down Arrow**
-  **Select/Call**

Introduction

Overview: Back



Placement Best Practice



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

Positioning the top edge of the mounting plate approximately 58 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 intercom in the following conditions:

- Direct sunlight on the intercom
- Strong backlight or shadows

Preparation

Mount Plate Overview

The TK74 can be mounted directly to a wall or junction box using the included mount plate.

Wall Mounting

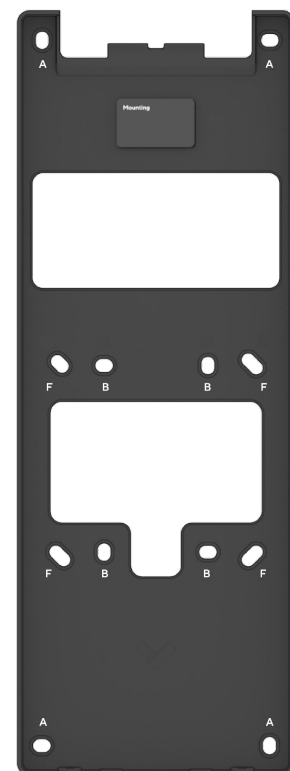


Junction Box Mounting



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

- A** Wall Mounting
- B** Double Gang Junction Box
- F** Square Junction Box

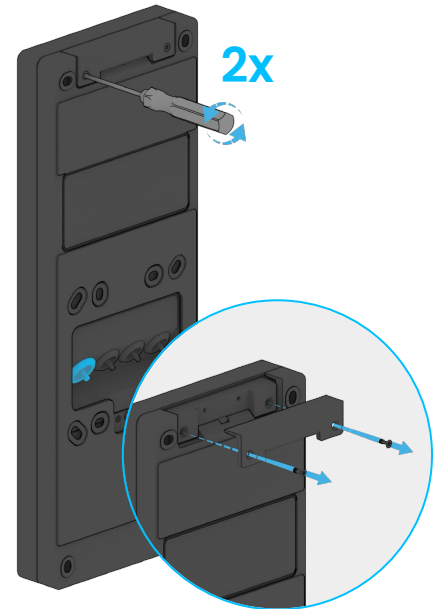


Installation

Rain Hood Installation Optional

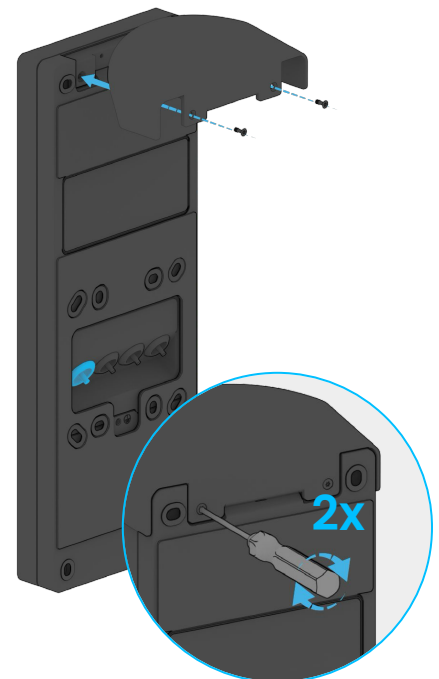
Use the T10 torx security screwdriver to loosen and take apart the hook plate.

Keep the two security screws.



Retrieve the Rain Hood and the two security screws.

Align and secure the Rain Hood with the security screws using the T10 torx security screwdriver.



Installation

Mounting to Wall

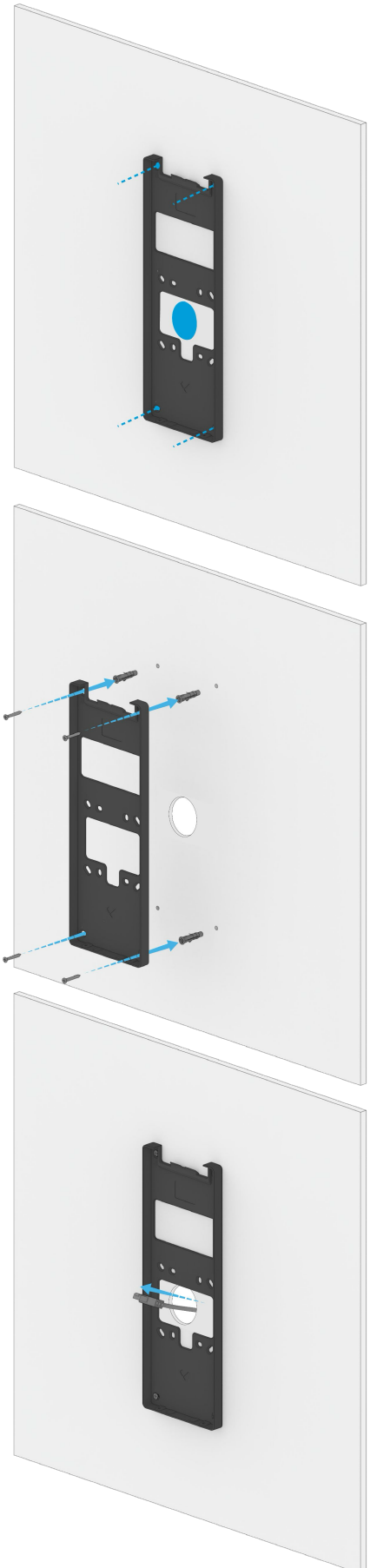
Use the mount plate as a template to mark **Hole Pattern A** and the pass-through hole location.

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.

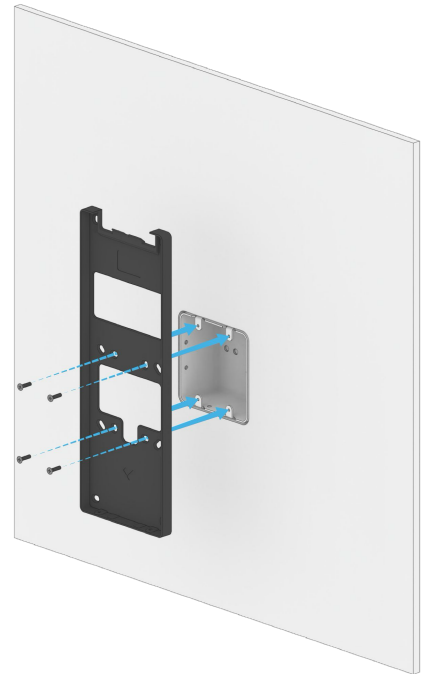


Installation

Mounting to Junction Box

Align the mount plate to the junction box anchor holes (**B** or **F** 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).



Route the ethernet cable through the mount plate.



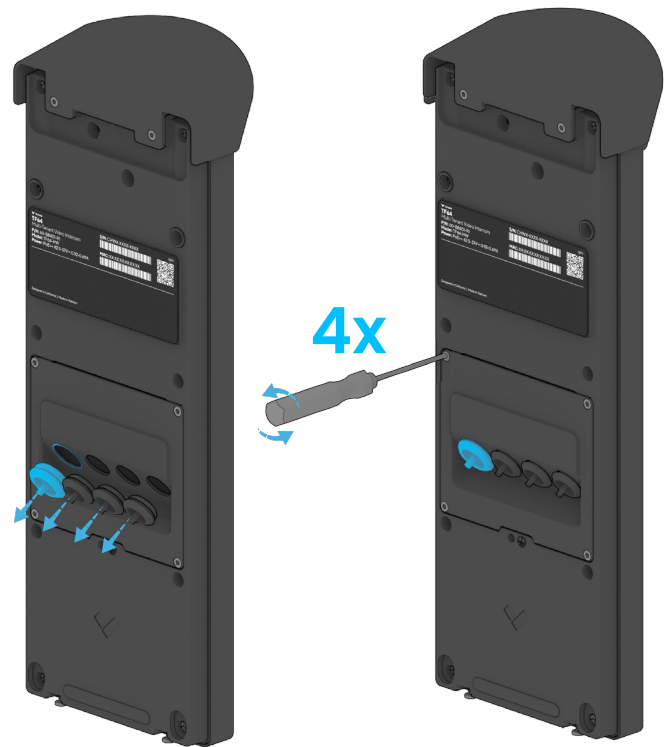
Installation

Wiring 1/3

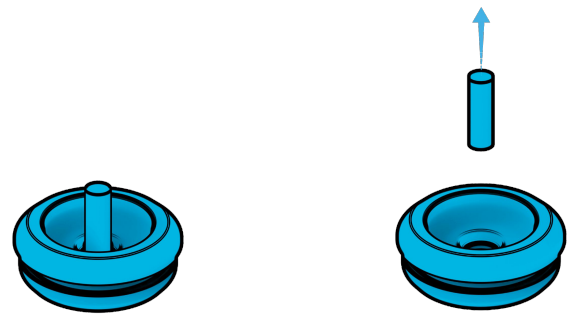
On the Intercom, loosen the four security screws on the cable bay door.

Remove the cable bay door to access the ethernet and I/O ports.

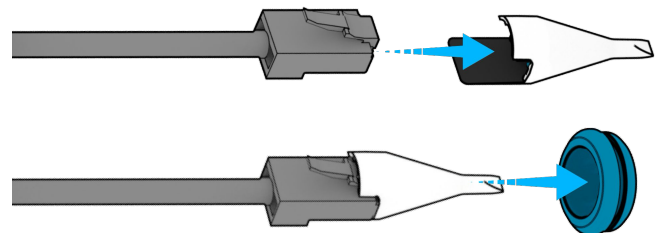
Use the label on the interior of the cable bay door to choose which grommets to remove for wiring.



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



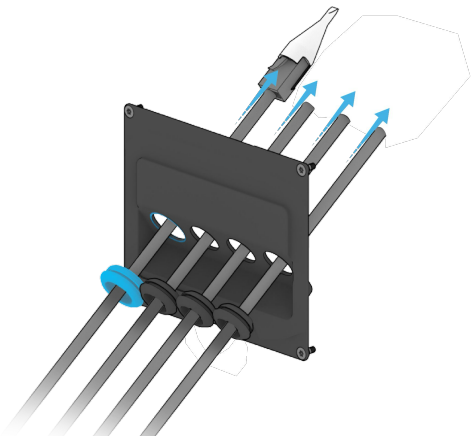
Use the grommet punch from the Install Kit to route the connector head through the grommet.



Installation

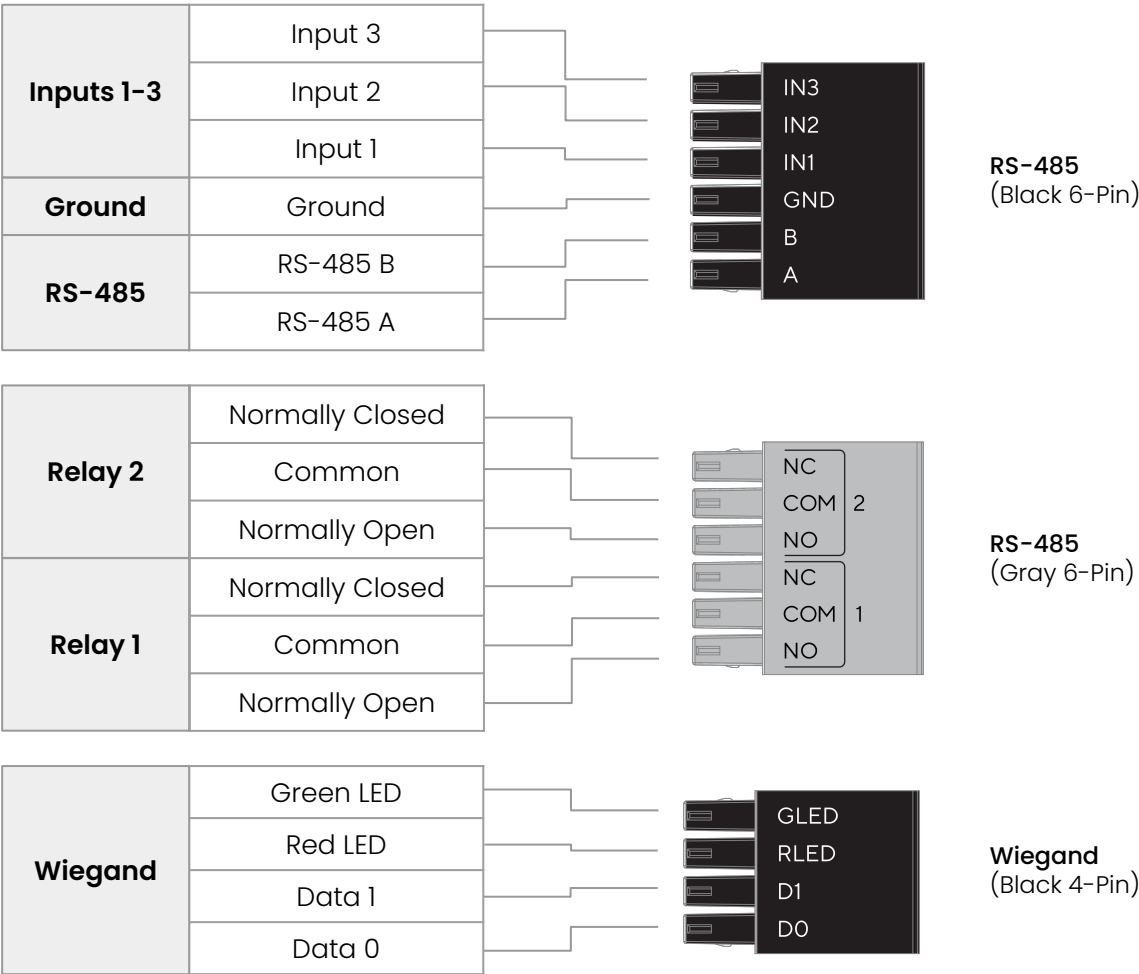
Wiring 2/3

Route all the wires through the grommets and corresponding grommet holes.



Remove the I/O terminal block for easier access to wiring.

Attach the wires according to the labelling on the I/O terminal block.



Installation

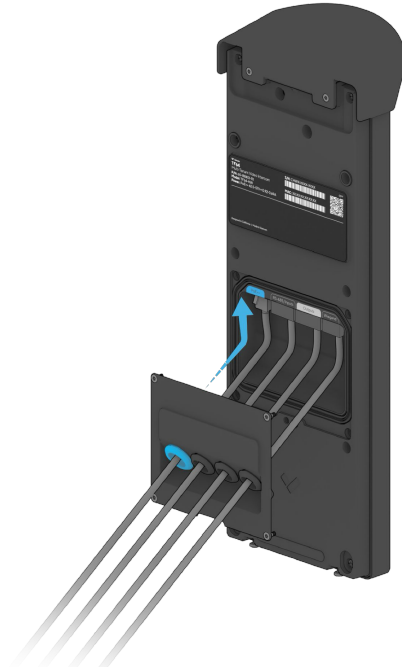
Wiring 3/3

Plug in the ethernet cable and the I/O terminal block.

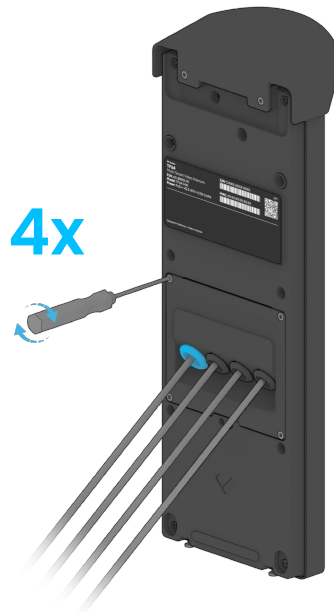
Press the grommets back into the grommet holes on the cable bay door.

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

Note: The tail of the grommet should be facing away from the Intercom after installation for proper sealing.



Secure the cable bay door by tightening the four security screws.



Installation

Secure

Guide the Intercom onto the two hooks on the top edge of the mount plate.

Gently swing the bottom edge of the Intercom down, against the mount plate.



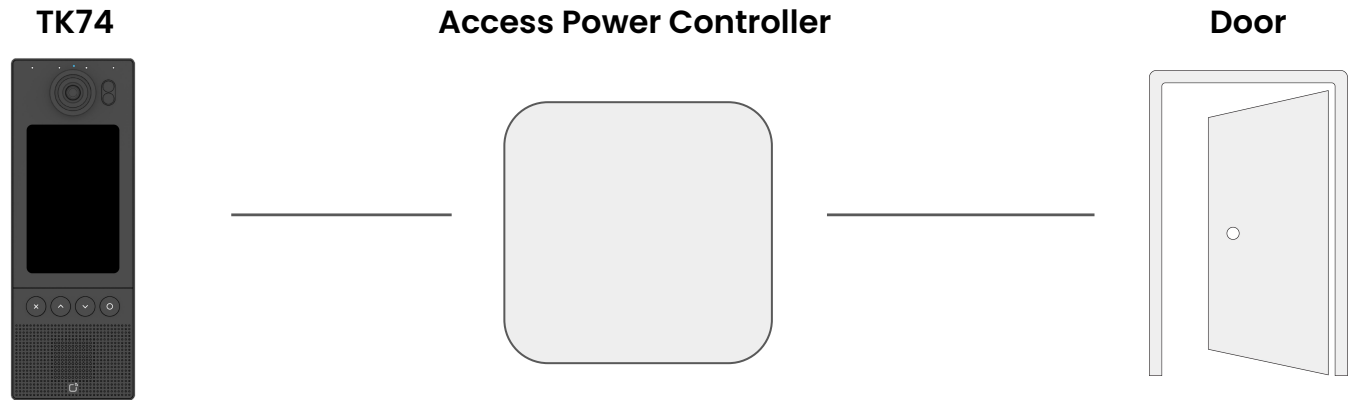
Secure the Intercom by tightening the two security screws at the bottom of the mount plate using the T10 torx security screwdriver.



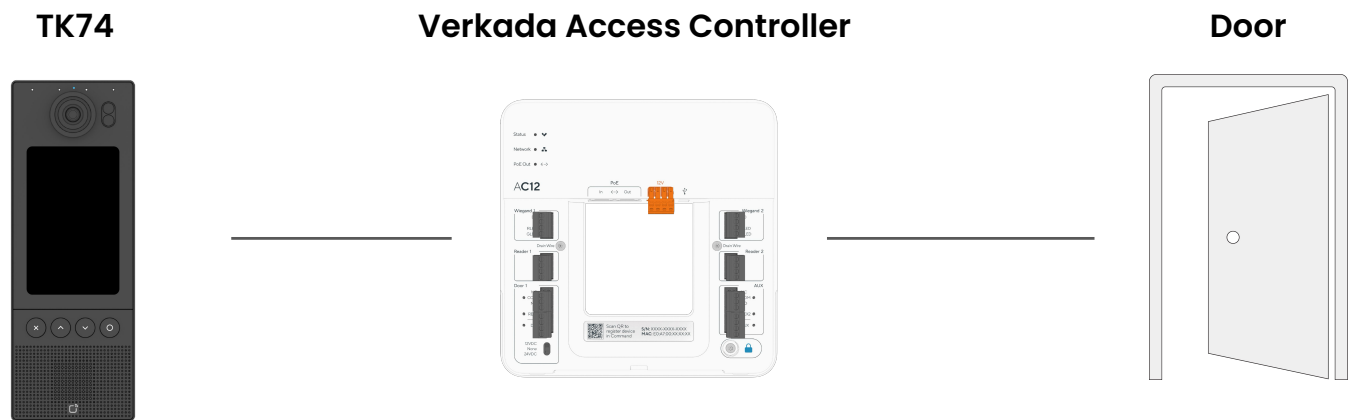
Door Wiring Options Overview

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

Option 1: Configure as a standalone Access Controller



Option 2: Pair to another Verkada access controller



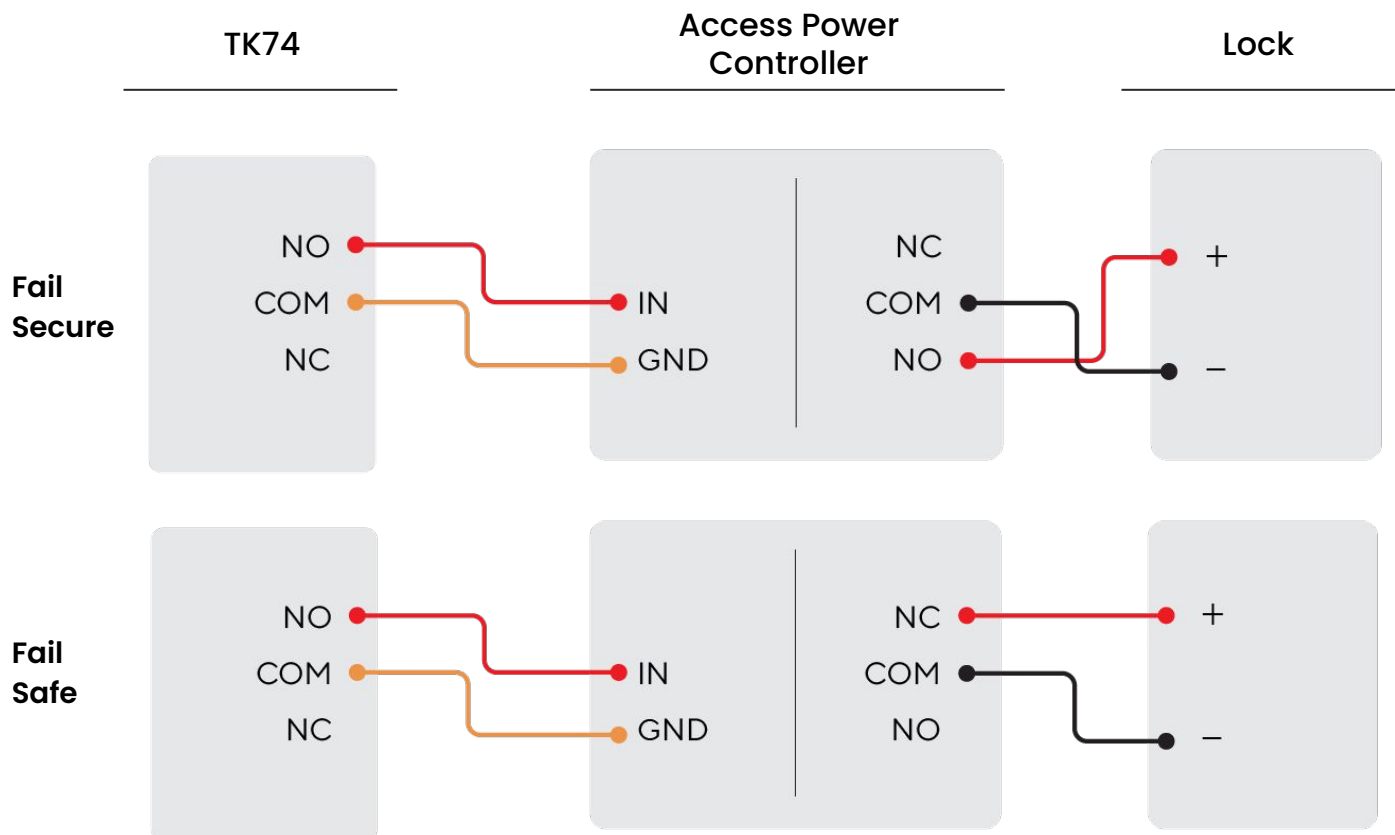
Wiring the Door 1/3

⚠ Warning

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

Option 1: Configure as a standalone Access Controller

The intercom 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.



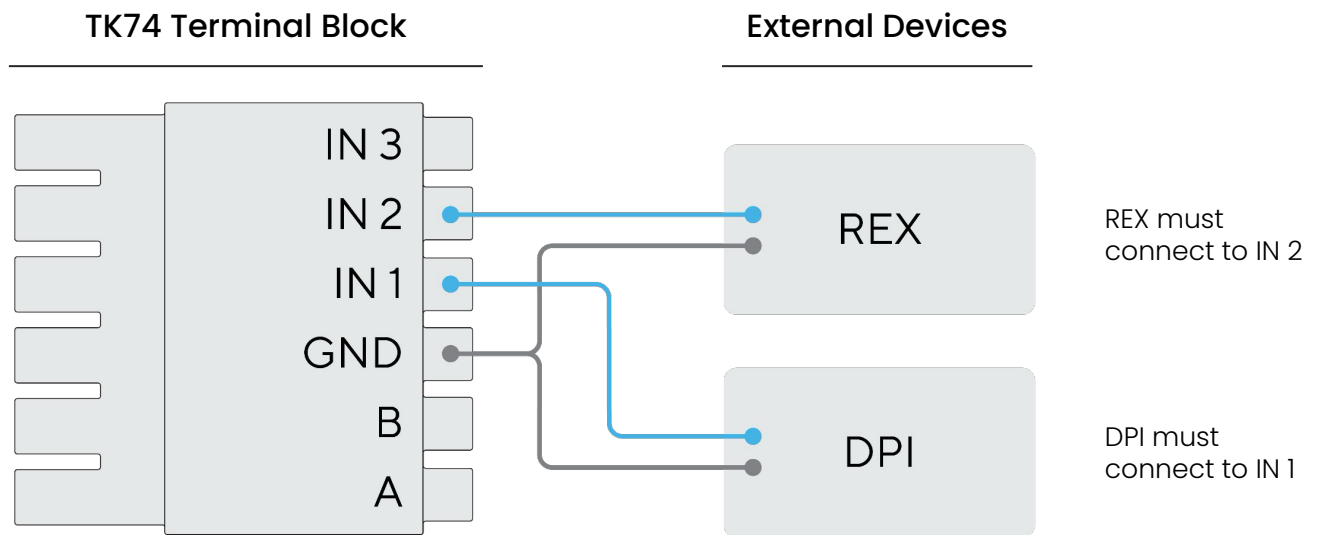
Wiring the Door 2/3

Warning

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

Connect to DPI and REX

The TK74 can be wired to a DPI and/or REX wired directly.



Wiring the Door 3/3

Warning

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

Option 2: Pair to another Verkada access controller

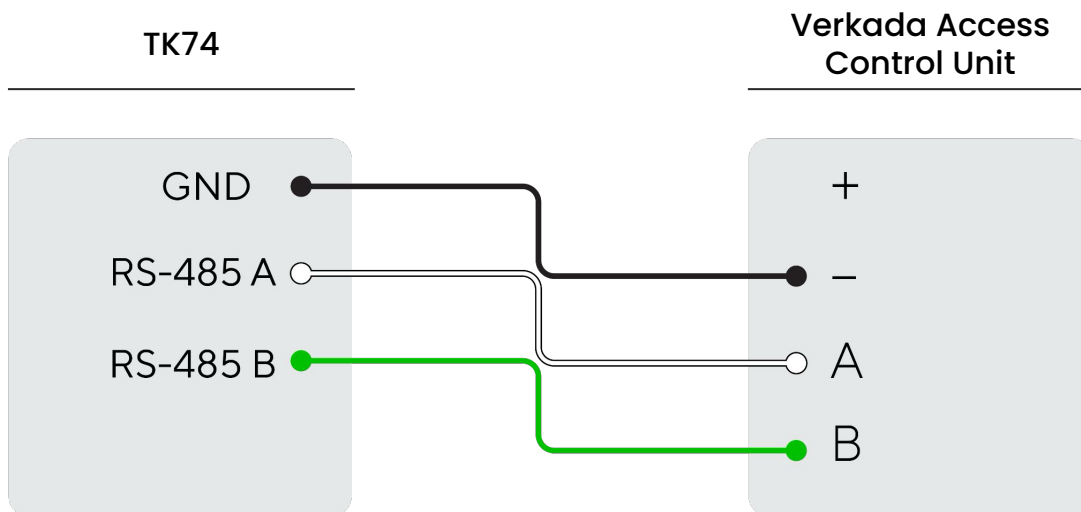
The intercom can be set up as a reader to a Verkada Access Control Unit (ACU).

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

The onboard badge reader 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) Wired network connection

Connect the intercom directly to the ACU using an ethernet cable. Wiring the I/O cable is not necessary.

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 rayonnement 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
UL294	Attack Level: Level I Endurance Level: Level I Line Security Level: Level I Standby Power Level: Level I Tested for compliance using firmware version: 1.0.18 This device accepts PoE type A or B. Use only UL listed class 2 power supply. Certification testing completed using PHIHONG TECHNOLOGY CO LTD Model POE60U-BTB (Verkada ACC-POE-60WHS) File E127643. PoE supply is for indoor use only. Power source for dry relay contacts shall be UL listed and having class 2 power limited output. Locations and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70 Article 725.121, Power Sources for Class 2 and Class 3 Circuits. Category 5e cabling is the minimum performance category recommended. The performance category utilized should match the transmission speed required at the installation site. Minimum conductor gauge permitted between the PSE or power injector and the PD shall be AWG 26 (0.13mm²) for patch cords; 24 AWG (0.21mm²) for horizontal or riser cable. Electronic authorization details - Mobile device operating system requirements: Apple iOS 16.0 or later, Google Android 3.1.6 or later - Mobile app requirements: Verkada Pass App 4.7.13 or later - User verification method: User ID and password - Credential details: authentication/digital signature keys received from wireless electronic credential
CAN/ULC 60839-11-1	Grade Assignment: Grade 1



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

