



ROSTO



TOUCH 3

# Enterprise Series

# **INGUIDE**

## Quick Start Guide

# In the Box



Dolphin Crimps  
(qty 12)



Earth Ground Wire



Wall Mounting Screws  
(qty 4)



Metal Mounting  
Plate Screw  
(qty 1)



Hex Key



Metal Mounting  
Plate

## IXM INSTALL KIT



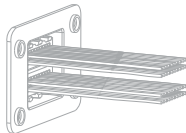
Snubber Diode



Security Hex Screw  
(qty 1)



Gang Box  
Mounting Screws  
(qty 2)



Wired Back Cover



Wired Back  
Cover Screws  
(qty 6)

## Getting Started

- 1 Remove the Mounting Plate, the Wired Back Cover and screws from the Box.
- 2 Install the Mounting Plate at the desired location (Invixium recommends 125 to 130 cms from the floor to the bottom of the device).
- 3 Avoid installing IXM ROSTO where the subject is backlit or in direct sunlight.
- 4 Make the necessary connections to the Wired Back Cover (refer to [Get Wired Pages](#)).
- 5 Connect the Wired Back Cover to the device using the 4 back cover screws.
- 6 Hang your device on the Mounting Plate and secure it on the bottom with the screw provided.



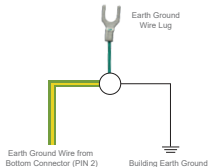
## Earth Ground

For protection against Electrostatic Discharge, Invixium recommends the use of a ground connection between each IXM device to a high quality Earth Ground available at the install site.

Connect to Earth Ground in the following way:

- 1 Connect the green and yellow earth ground wire from the wired back cover (bottom connector PIN 2) to the building earthing.
- 2 Connect the open end of earth ground wire provided in the Install Kit Box to the building earthing as well.
- 3 Screw the lug end of the earth ground wire to the metal mounting plate.

Ensure all Earth Ground connections are made to each device prior to turning on the power.

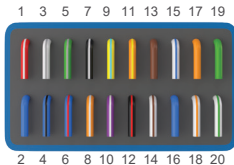


Earth Ground Connections

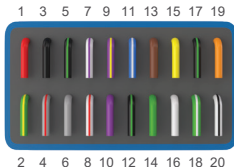
## Get Wired Glossary

ACP	Access Control Panel	RLY	Relay
COM	Common	RX	Receiver
DAC	Door Access Control	SGND	Signal Ground
DGND	Digital Ground	SPI	Specific Purpose Input
DSP	Door Strike Power	SPO	Specific Purpose Output
EGND	Earth Ground	TX	Transmitter
LED	Light Emitting Diode	USB	Universal Serial Bus
NC	Normally Closed	WDATA	Wiegand Data
NO	Normally Open	VIN+	Power (12VDC)
PoE+	Power over Ethernet	VIN-	Power Ground

Top Connector






Bottom Connector























## Get Wired Top Connector

Wire Color	Wire	Label	Pin(s)
Red/White		USB0_VBUS	1
Blue		RS485_D+	2
White/Grey		USB0_D-	3
Blue/Black		RS485_D-	4
Green/Grey		USB0_D+	5
Blue/Red		RS485_T	6
Black/White		USB0_GND	7
Orange/White		SPI_1	8
Yellow/Cyan		SPO_1	9
Purple/White		SPI_2	10

Wire Color	Wire	Label	Pin(s)
Orange/Yellow		SPO_2	11
Black/Red		SGND	12
RJ 45 Receptacle		TCP/IP	13-20

## Get Wired Bottom Connector

Wire Color	Wire	Label	Pin(s)
Red		VIN+	1
Green/Yellow		EGND	2
Black		VIN-	3
Grey/Red		RLY_NO	4
Black/Green		DGND	5
Grey		RLY_COM	6
White/Purple		DAC_IN1	7
White/Red		RLY_NC	8
Purple/Yellow		DAC_IN2	9
Purple		NC	10

Wire Color	Wire	Label	Pin(s)
Blue/White		DAC_IN3	11
Black/Green		DGND	12
Brown		ACP_LED1	13
Green		WDATA_OUT0	14
Yellow		ACP_LED2	15
White		WDATA_OUT1	16
Black/Green		DGND	17
Green/White		WDATA_IN0	18
Orange		DAC_OUT	19
White/Black		WDATA_IN1	20

# Power

The product should be powered by a regulated, filtered & dedicated Class 2 power supply providing a minimum of 2A @ 12 VDC or 1A @ 24 VDC per device.

PoE+ connectivity is available on all ROSTO models and PoE connectivity is available on selected TOUCH 3 models. Invixium recommends using a UL 62368-1 listed PoE Power Source Equipment (PSE). For PoE+, the maximum distance from PSE is 100 meters or 328 feet.

Full PoE deployments should include a centralized PoE PSE.

Do not connect and use the power supply and PoE simultaneously.

Do not extend the length of power cable when using a power adapter.

Do not use a 2-Wire CAT5 UTP for power supply purposes.

INVIXIUM recommends the use of battery back-up or a UPS with built-in surge protection.

**WARNING:** Product Warranty is void if improper power (under or over) is supplied to the device.





## USB Port

For Serial Communication, IXM ROSTO and TOUCH 3 are equipped with a USB Type C port at the bottom of the device.

The port can be used to connect a Flash Drive via an OTG cable and perform functions like upgrading firmware, downloading transaction logs and configuration files.

The USB-C port can also be used to connect to a PC running IXM WEB via USB Type-C cable.

After performing USB operations, close the USB bottom cover and screw tightly for water/dust ingress protection.

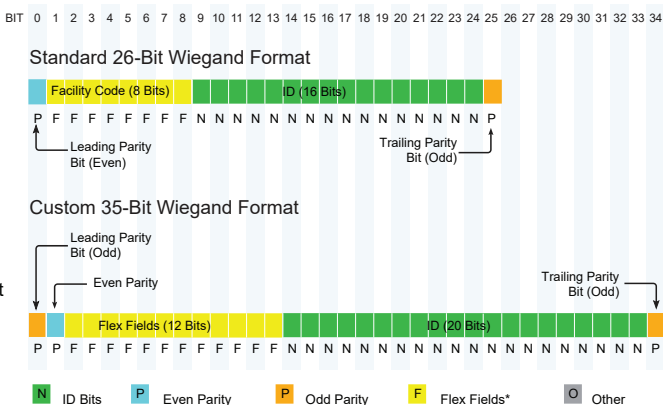


Bottom USB Port

# Wiegand

IXM devices have the option to use the Standard 26-bit Wiegand format or a Custom Wiegand format (up to 512 bits) to suit any Access Control System.

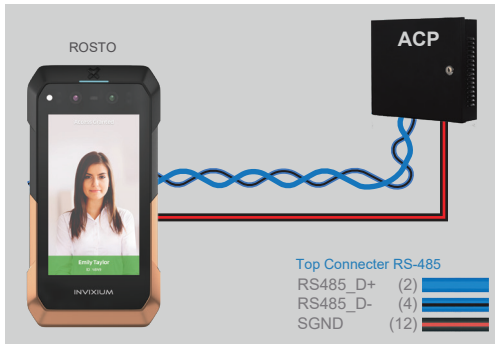
All IXM devices are set to Standard 26-bit format as a factory default.



\*Flex Fields can be Facility Code, Job Code or Company ID Code.

# Access Control Panel Connection - OSDP

- 1 OSDP requires RS485 wiring connections between device and ACP.
- 2 Use a 4 conductor 24 AWG twisted pair overall shielded and UL approved, Belden 9842 or equivalent cable.
- 3 With an RS485 daisy chain, connect up to a maximum of 31 devices and connect the termination resistor (120  $\Omega$ ) to both ends of the daisy chain connection.
- 4 Connect SGND cable with the ground cable of access control panel to equalize possible voltage potential difference between nodes.
- 5 At a baud rate of 9600 bps, ensure that the maximum cable length is not longer than 1200m (4000 ft).



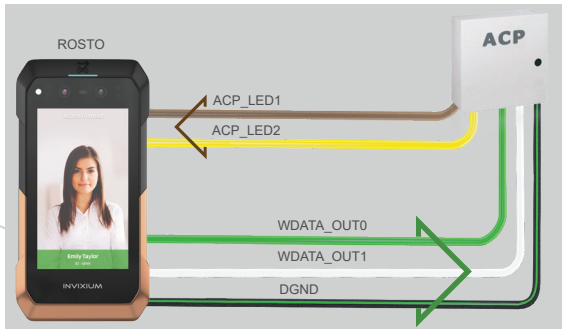
**NOTE: Do Not Use Ethernet cable for RS485 communication.**

## Access Control Panel Connection - Wiegand



### Bottom Connector

ACP_LED1		(13)
WDATA_OUT0		(14)
ACP_LED2		(15)
WDATA_OUT1		(16)
DGND		(17)








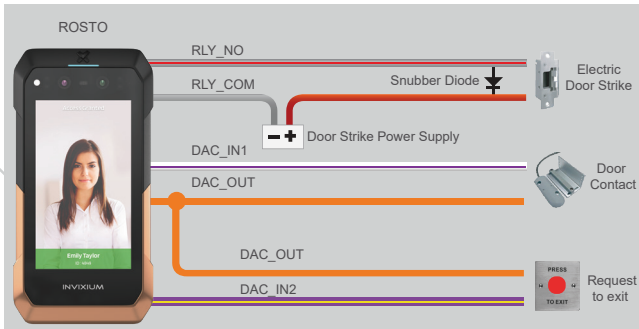
ACP\_LED signals can be used if available on the Access Control Panel. IXM devices support up to 2 wires for LED status.

# Door Access Control Connections (Electric Lock)



## Bottom Connector

RLY_NO		(4)
RLY_COM		(6)
DAC_IN1		(7)
DAC_IN2		(9)
DAC_OUT		(19)








Max Relay rating = 24VDC @ 2A

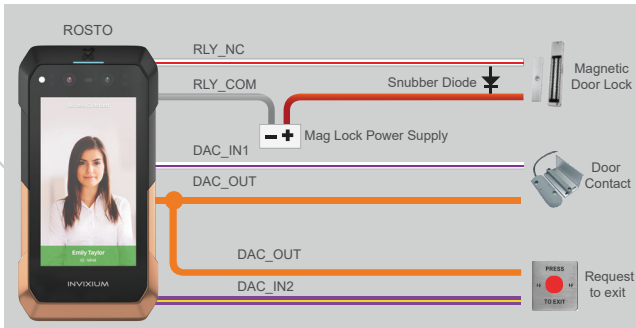
**NOTE:** A separate power supply is required for the door strike

# Door Access Control Connections (Magnetic Lock)



## Bottom Connector

RLY_COM		(6)
DAC_IN1		(7)
RLY_NC		(8)
DAC_IN2		(9)
DAC_OUT		(19)



Max Relay rating = 24VDC @ 2A

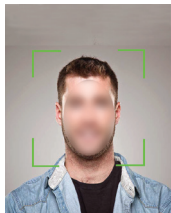
**NOTE:** A separate power supply is required for the magnetic lock

## Face Enrollment Best Practices

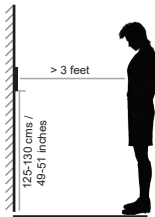
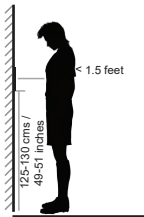
Invixium recommends standing at a distance of 1.5 to 3 feet from the device when enrolling a face.

Make sure your entire face is in the centre of the screen. The user should look straight at the camera when enrolling their face. Avoid looking in other directions or turning your head during enrollment.

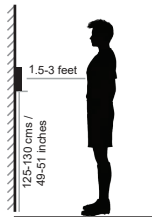
Ensure ideal lighting conditions during enrollment - avoid strong direct light behind the user's face.



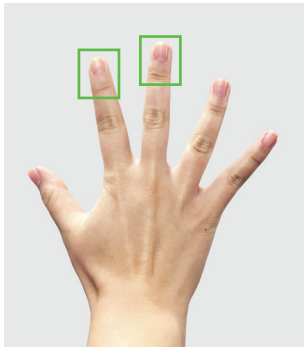
 Incorrect



 Correct



# Fingerprint Enrollment Best Practices



Recommended as per NIST

✗ Incorrect

✓ Correct

Pressure



Too Low



Too High



Good

Position



Rotation



Condition



Dry



Wet



Good



# Finger Placement Best Practices

- 1 Proper finger placement is crucial for good enrollment score and faster authentication.
- 2 Place your finger straight on the sensor as shown below, while covering the sensor with the top third of your finger as shown on the previous page.

✗ Incorrect



✓ Correct



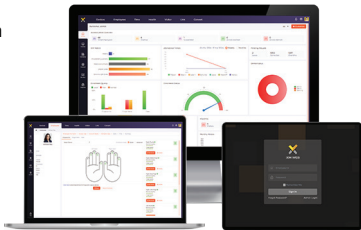
## Card Placement

- 1 For IXM ROSTO, the card reader is placed behind the LCD towards the bottom of the device.
- 2 For IXM TOUCH 3, the card reader is placed behind the fingerprint sensor towards the bottom of the device.
- 3 See below for the correct card placement while using the Enterprise Series.



# Software Installation

- 1 Go to [www.invixium.com](http://www.invixium.com) >> **SOFTWARE** >> **Get IXM WEB**.
- 2 Follow the instructions on the screen. Enter your details and click **Submit**. You will then be sent an email with the latest IXM WEB package.
- 3 Extract the compressed file and **run** IXM WEB.exe. Invixium recommends selecting **Install** for easier installation.
- 4 When installation is complete, click **Exit**. The IXM WEB icon will now be on your desktop.
- 5 Use the **IXM WEB icon** to run IXM WEB in your default web browser.
- 6 Contact [support@invixium.com](mailto:support@invixium.com) in case of any issues.



# INGUIDE

For technical or customer support issues, please contact your Local Authorized Reseller first.

## Invoxium Customer Portal

Stay up to date with the latest updates, best practices, datasheets and other Invoxium resources.

Visit [www.invoxium.com/support/](http://www.invoxium.com/support/)



Contact Invoxium Support at:

✉ [support@invoxium.com](mailto:support@invoxium.com)

☎ +1 844 INVIXIUM (468 4948)

Enjoy the Experience.

Some features may vary based on device models.  
Copyright © 2025, INVIXIUM. All rights reserved.

[invoxium.com](http://invoxium.com)

P/N XAD-00E-365-01G