



TFACE



INVIXIUM

INGUIDE

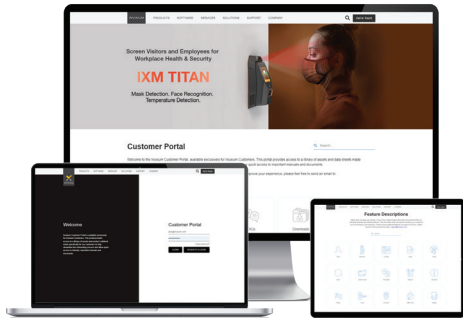
Quick Start Guide

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In the Box



Dolphin Crimps
(qty 12)



Earth Ground Wire



Wall Mounting Screws
(qty 4)



Metal Mounting
Plate Screw
(qty 1)



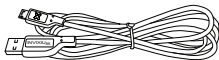
Hex Key



Metal Mounting
Plate



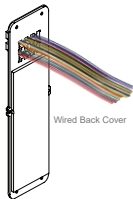
Snubber Diode



Micro USB Extension
Cable (4 ft/1.2m)



Ferrite Core
(Selected variants only)



Wired Back Cover



USB Cover Screw
(qty 1)



Gangue Box
Mounting Screws
(qty 2)

IXM INSTALL KIT

Getting Started

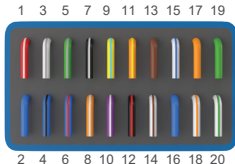
- 1 Remove the Mounting Plate, Wired Back Cover and Screws from the IXM INSTALL KIT.
- 2 Install the Mounting Plate at the desired location (Invixium recommends 120 to 125 cms from the floor to the bottom of the device).
- 3 Make the necessary connections to the Wired Back Cover (refer to [Get Wired Pages](#)).
- 4 Unscrew and remove the Temporary Back Cover from the device and connect the Wired Back Cover using the same screws.
- 5 Hang your device on the Mounting Plate and secure it on the bottom with the screw provided.



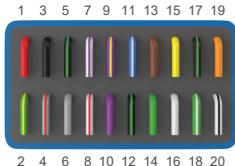
Get Wired Glossary

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		RS232_RX	8
Yellow/Cyan		SPI_1	9
Purple/White		RS232_TX	10

Wire Color	Wire	Label	Pin(s)
Orange/Yellow		SPO_1	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		DAC_DSP	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

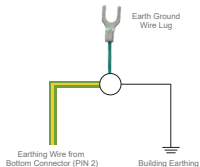
Earth Ground

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 earthing 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

Power, Ethernet and Wi-Fi

Ensure that a regulated, filtered and dedicated power source provides a minimum of 12VDC @ 2A per device, when using an external power supply.

PoE+ connectivity is also available on all TFACE models. When using PoE+, an IEEE 802.3at compliant Active Midspan Injector or switch is required (sold separately). Refer to table for Invixium recommended PoE+ Injector specs. Full PoE+ deployments should include a centralized PoE+ PSE.

For Ethernet communication, a specific range of allowable IP addresses can be set for improved security.

For Wi-Fi communication, standard 802.11a/b/g/n/ac protocol is supported. DHCP is enabled as a factory default. WEP, WPA and WPA2 encryption options are available.



Recommended PoE+ Injector Specs

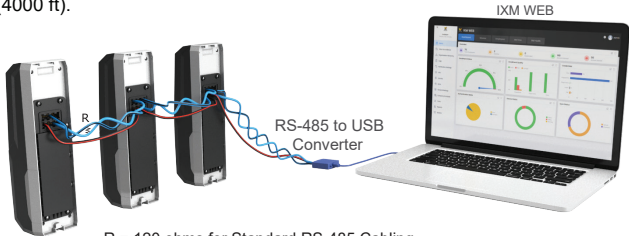
Input Voltage	100-240 VAC, 50-60 Hz
Input Current	0.75 A
Output Voltage	40-56 VDC
Output Current	0.625 A
Power	24 Watts

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.

RS-485 Configuration

For RS-485 networks, ensure that IXM devices are wired in a daisy chain configuration, up to a maximum of 31 devices. At a baud rate of 9600 bps, make certain that the maximum cable length is not longer than 1200 m (4000 ft).



R = 120 ohms for Standard RS-485 Cabling
R = 100 ohms for CAT5/6 Cabling

Note: Connect RS485_T Wire with RS485_D+, to introduce 120 ohms termination between RS485_D- and RS485_D+ lines when needed.

Top Connector RS-485

RS485_D+	(2)	
RS485_D-	(4)	
RS485_T	(6)	
SGND	(12)	

Serial Communication and USB

For Serial Communication, IXM devices are equipped with RS-232 and USB capabilities.

Refer to [Get Wired Top Connector](#) page for RS-232 connections.

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

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



Micro USB Cable



Micro USB OTG Cable
(sold separately)

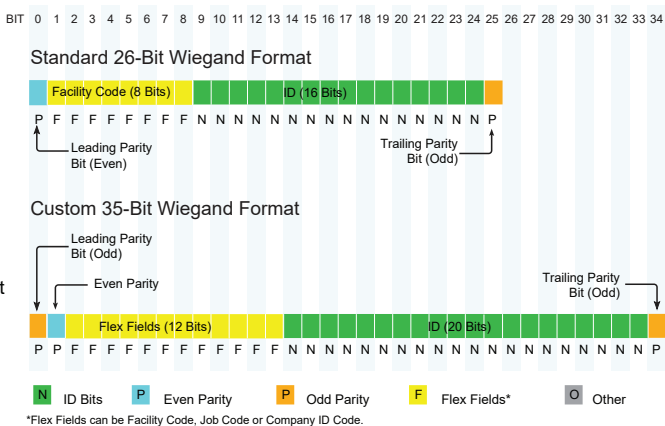


Bottom USB Port

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.

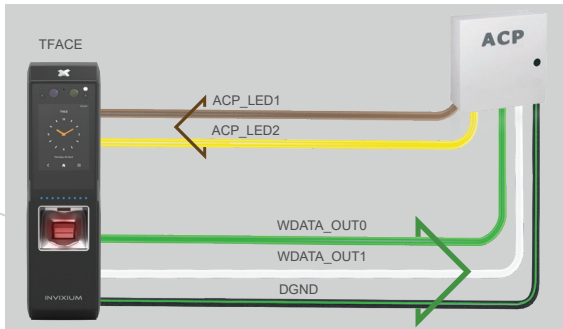


ACP Connections



Bottom Connector

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








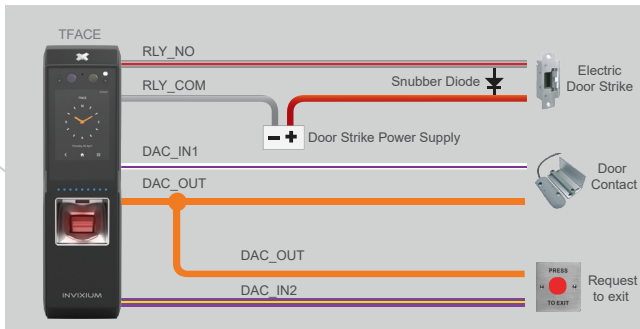
ACP_LED signals can be used if available on the Access Control Panel. IXM devices support up to 2 wires for LED status.

DAC Connections (Electric Door Strike)



Bottom Connector

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








Max Relay rating = 24VDC @ 2A

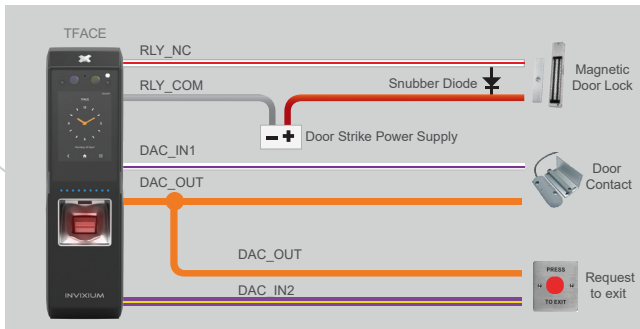
NOTE: A separate power supply is required for the door strike

DAC 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

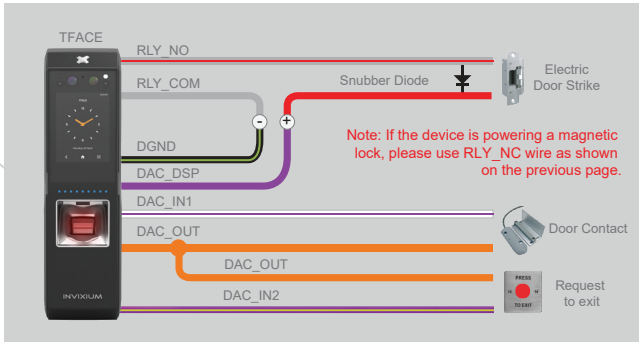
NOTE: A separate power supply is required for the door strike

DAC Connections (Device Powers Door Strike)



Bottom Connector

RLY_NO		(4)
DGND		(5)
RLY_COM		(6)
DAC_IN1		(7)
DAC_IN2		(9)
DAC_DSP		(10)
DAC_OUT		(19)



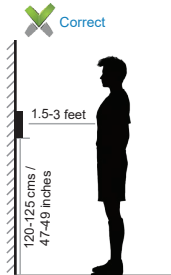
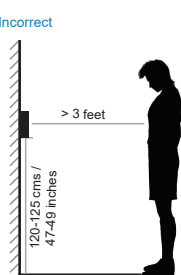
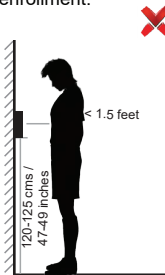
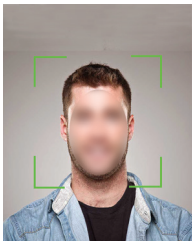
Max Relay rating = 24VDC @ 2A
Device can supply 12VDC @ 500mA

Face Enrollment Best Practices

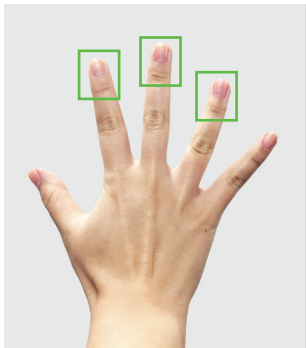
Inxium recommends standing at a distance of 1.5 to 3 feet from the device when enrolling a face.

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.



Fingerprint Enrollment Best Practices



Preferred Fingers

	 Incorrect	 Correct	
Pressure	 Too Low	 Too High	 Good
Position	 Too Left	 Too Right	 Good
Rotation	 Too Rotated	 Too Rotated	 Good
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 TFACE, the card reader is placed below the fingerprint sensor.
2. See below for the correct card placement while using the IXM TFACE.



Software Installation

- 1 Go to www.invixium.com >> SOFTWARE >> Get IXM WEB.
- 2 Read the guidelines and Click “Proceed”. Fill in all the details and Submit the form. An email with the link to download the latest IXM WEB package will be sent to the email ID provided.
- 3 Extract the compressed file and run IXM WEB.exe.
- 4 INVIXIUM recommends to select **Install** option for rapid installation.
- 5 When installation is complete, close the setup wizard. IXM WEB icon is now on the desktop.
- 6 Run IXM WEB to launch in default web browser.
- 7 Contact your local installer in case of any issues.



INGUIDE

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

Visit the Customer Portal for more Invixium resources at www.invixium.com/support



Enjoy the Experience.

Some features may vary based on device models.
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Contact Invixium Support at:

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