



# INVIXIUM VERTU RFID Access Control User Guide

[Home](#) » [INVIXIUM](#) » INVIXIUM VERTU RFID Access Control User Guide 

## Contents

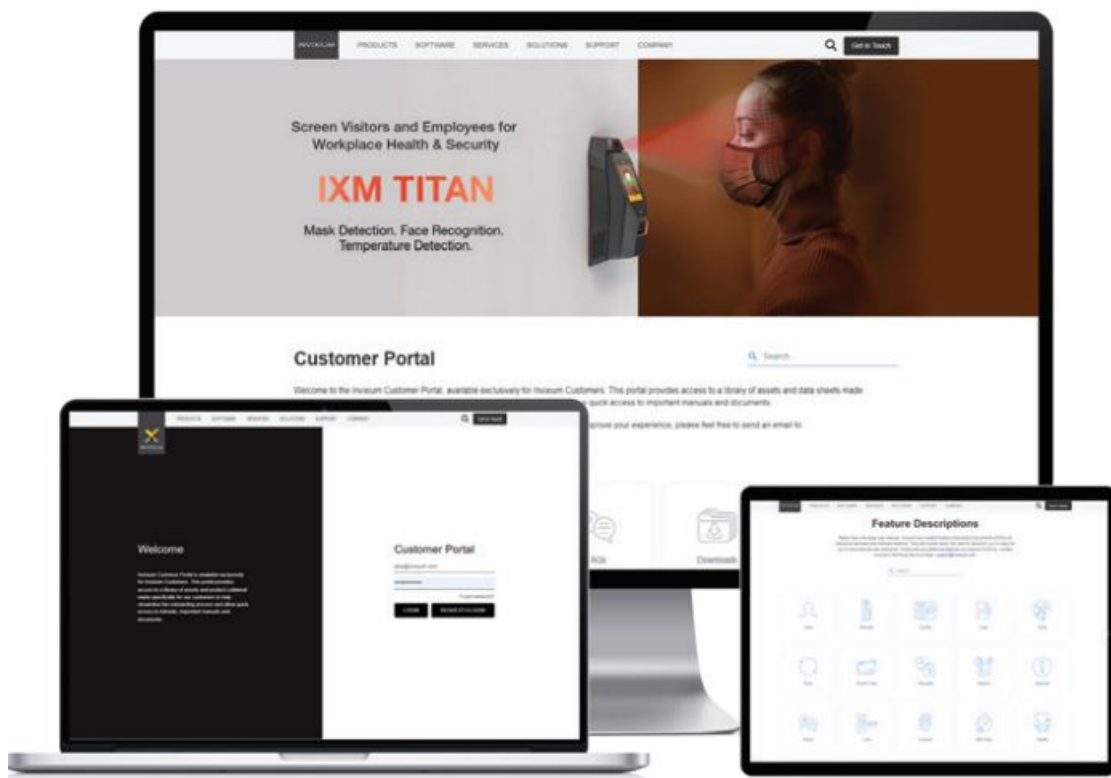
- [1 INVIXIUM VERTU RFID Access Control](#)
- [2 Invixium Customer Portal](#)
- [3 In the Box](#)
- [4 Getting Started](#)
- [5 Get Wired Connector](#)
- [6 RS-485 Configuration](#)
- [7 ACP Connections](#)
- [8 Card Placement](#)
- [9 App Installation & Device Configuration](#)
- [10 INGUIDE](#)
- [11 Documents / Resources](#)
  - [11.1 References](#)
- [12 Related Posts](#)



**INVIXIUM VERTU RFID Access Control**



## Inxium Customer Portal



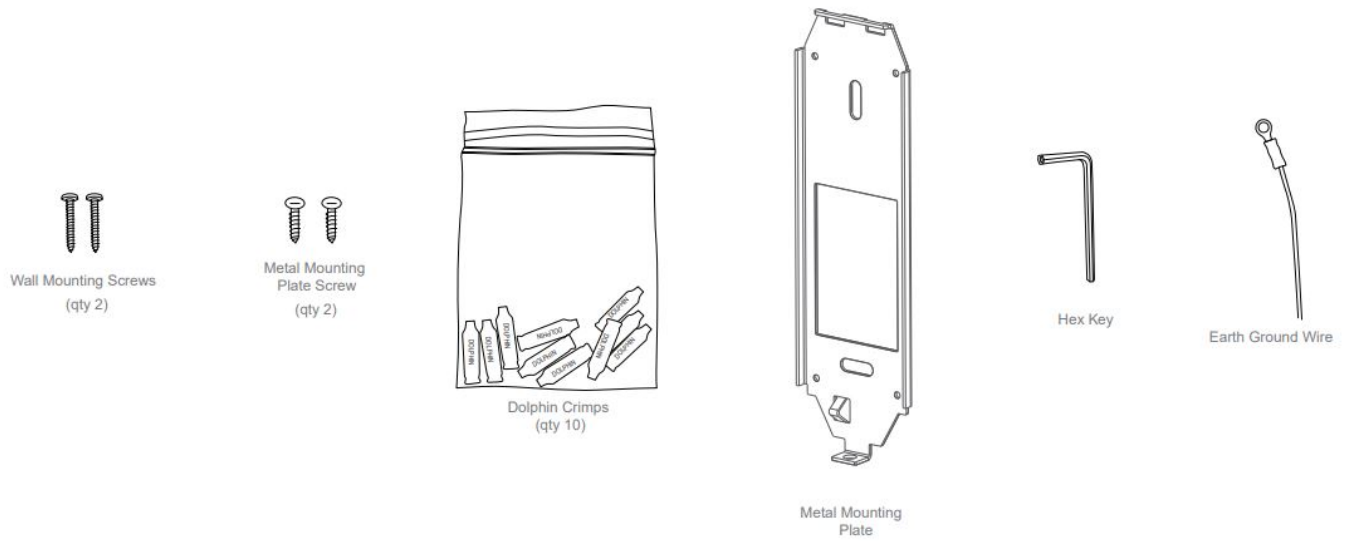
## Stay up to date with:

- Latest Updates
- Best Practices
- Datasheets
- Installation Guides
- Feature Description Documents

- Videos
- FAQs
- Tutorials
- And more...

Visit <https://www.invixium.com/support/>

## In the Box



## Getting Started



1. Remove the Mounting Plate, and Screws from the box. They are both placed under the product.
2. Install the Mounting Plate at the desired location (INVIXIUM recommends 120 cms from the floor to the bottom of the device).
3. Make the necessary connections to the Wires on the back of the device (refer Get Wired Pages).
4. Hang your device on the Mounting Plate and secure it on the bottom with the screw provided.
5. Power the device using a regulated, filtered and dedicated power source (Safety tested, FCC/IC/CE certified) providing 500mA @ 12 VDC.

## Get Wired Connector

Wire Color	Wire	Label	Pin(s)	Wire Color	Wire	Label	Pin(s)
Black		VIN-	1	Blue		RS485_D+	7
Red		VIN+	2	Blue/Black		RS485_D-	8
Orange		BUZZER_IN	3	White		WGND_OUT1	9
Brown		LED_G_IN	4	Green		WGND_OUT0	10
Gray		LED_B_IN	5	Purple		TAMPER_OUT	11
Yellow		LED_R_IN	6	Green/Yellow		IO	12

## 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)..



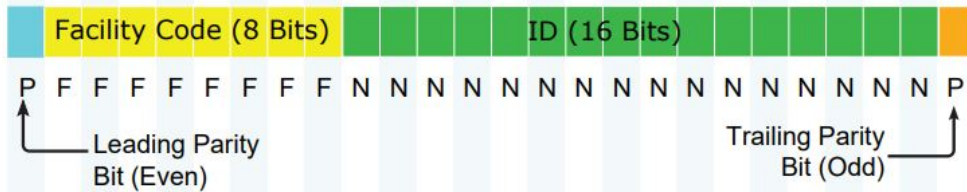
R = 120 ohms for Standard RS-485 Cabling  
R = 100 ohms for CAT5/6 Cabling

RS-485+ (7)   
RS-485- (8) 

## Wiegand

BIT 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

## Standard 26-Bit Wiegand Format



## Custom 35-Bit Wiegand Format

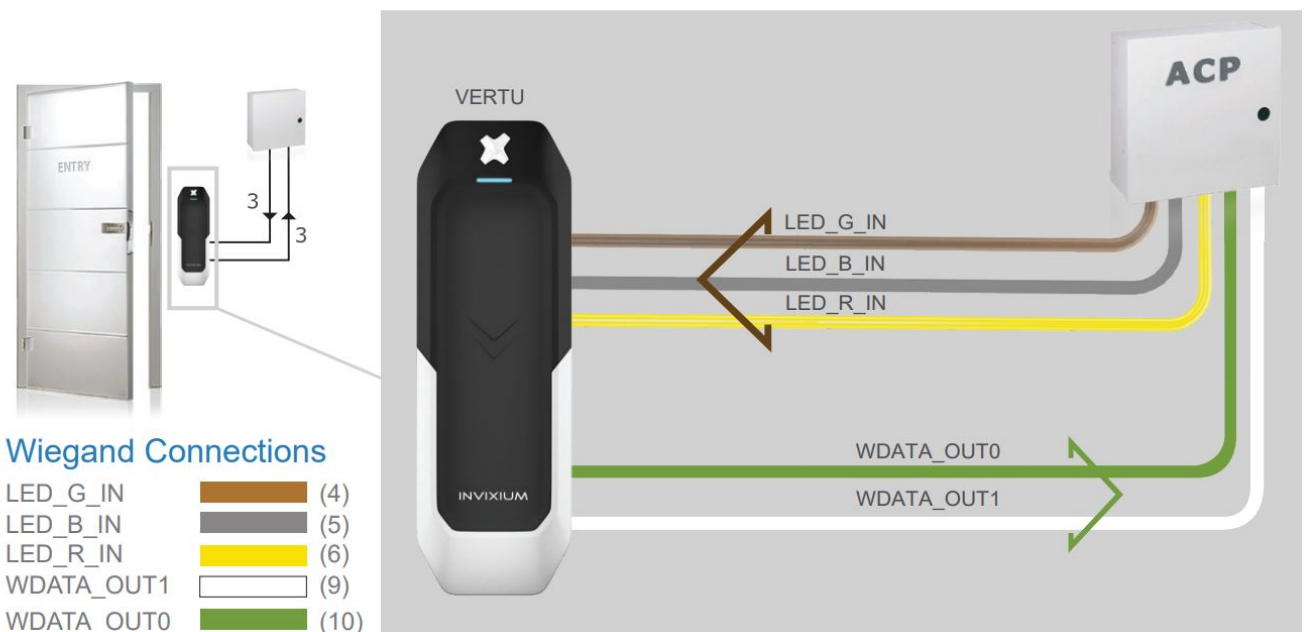


**N** ID Bits    **P** Even Parity    **P** Odd Parity    **F** Flex Fields\*    **O** Other

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

- IXM VERTU has the option to use the Standard 26-bit Wiegand format or a Custom Wiegand format (up to 512 bits) using its Mobile configuration app.
- All IXM devices are set to Standard 26-bit format as a factory default.

## ACP Connections

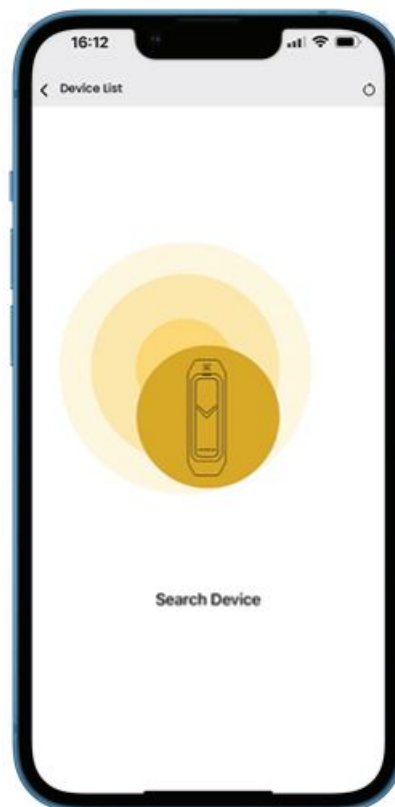


## Card Placement



1. The location of the card reader on Invixium devices depends on the product model.
2. For VERTU, the card reader is located at the centre of the device, below the LED.
3. See the image on the right for the correct card placement while using IXM VERTU.

### **App Installation & Device Configuration**



1. IXM VERTU can be configured using a mobile app. To download the app, go to the App store or the Google Play Store and download the IXM VERTU App.

2. Open the app and go to Search devices to configure a device. Create a password when configuring the device for the first time. This password will be used to access the device for future configurations.
3. Select a device to configure the various settings (RS485, Wiegand, Card layout, LED color, Buzzer, etc.) and Tap Apply and Save.
4. Create preconfigured templates for this device for ease of use.
5. Contact your local distributor for any technical 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](http://www.invixium.com/support).

### Enjoy the Experience.

Some features may vary based on device models. Copyright © 2022, INVIXIUM. All rights reserved.

### Contact Invixium Support at:


[support@invixium.com](mailto:support@invixium.com)

+1 844 INVIXIUM (468 4948)

invixium\_support

© 2020 Google Inc. All rights reserved. chrome browser is a trademark of Google Inc. Firefox logo® is a registered trademark of the Mozilla Foundation. Windows®, Internet Explorer®, and Edge® are trademarks of the Microsoft group of companies. Safari® is a trademark of Apple Inc.

## Documents / Resources

	<a href="#">INVIXIUM VERTU RFID Access Control</a> [pdf] User Guide VERTU, RFID Access Control, VERTU RFID Access Control, Access Control
---	--

## References

-  [Global Leader in Biometric Access Control Solutions from Canada | Invixium](#)
-  [Customer Portal | Invixium Support](#)
-  [Customer Portal | Invixium Support](#)