

# Wiegand Protocol

## How to select [Wiegand Out] & [Wiegand In]?

You can compare the wiegand socket to a window of tablet.

If you want to get any information from the tablet, then tablet is outputting data to you. So, you will use the [Wiegand Out].

If we need to send the ID Number (data) to tablet from card reader. Then for the tablet is inputting data, then you will use the [Wiegand In].

# Wiegand Out Application

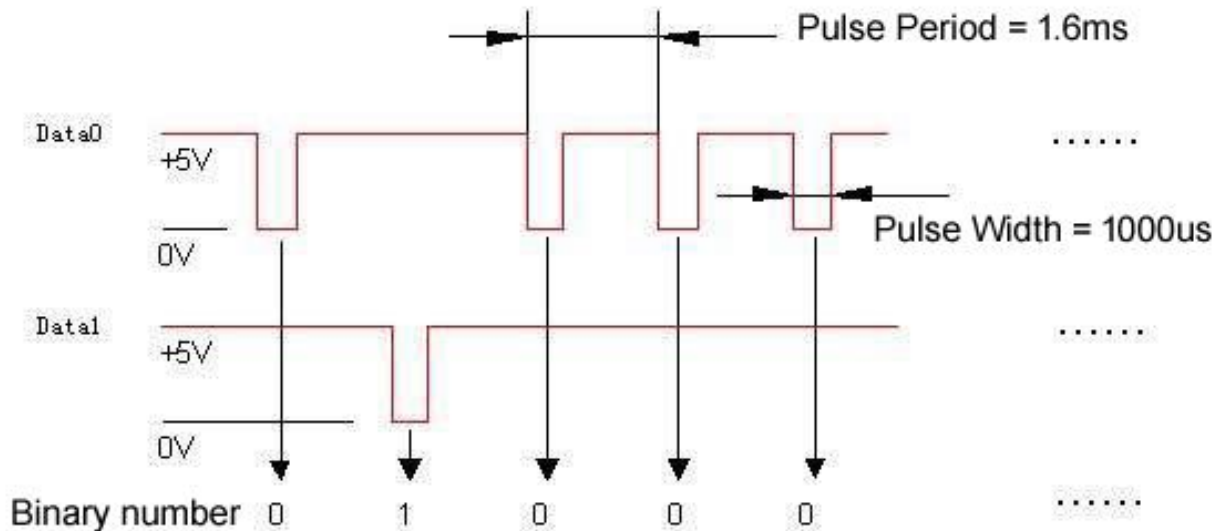
== Output Face ID Number ==

## 1. What's [Wiegand Out] data?

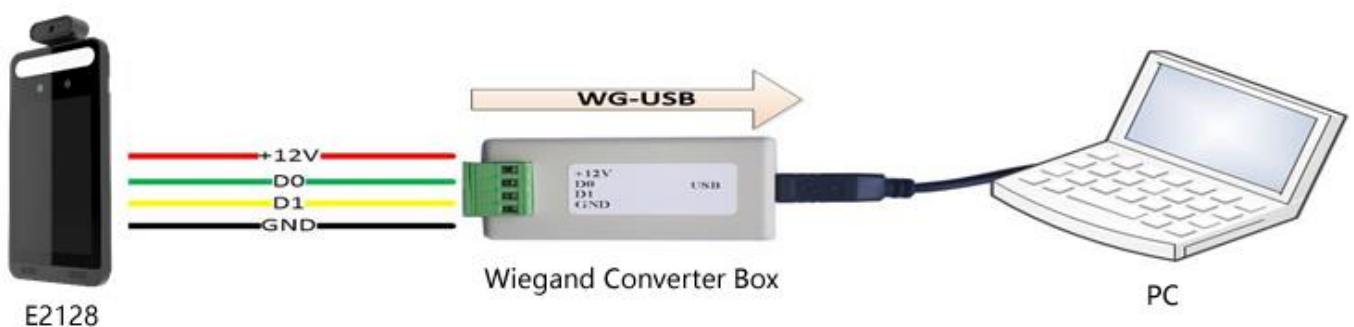
Frist, please know [Wiegand Out] isn't same as [Alarm Out].

The [Alarm Out] is a delayed signal, it can keep connect or disconnect in a few seconds as you setting that activate the unlock action of the access control system.

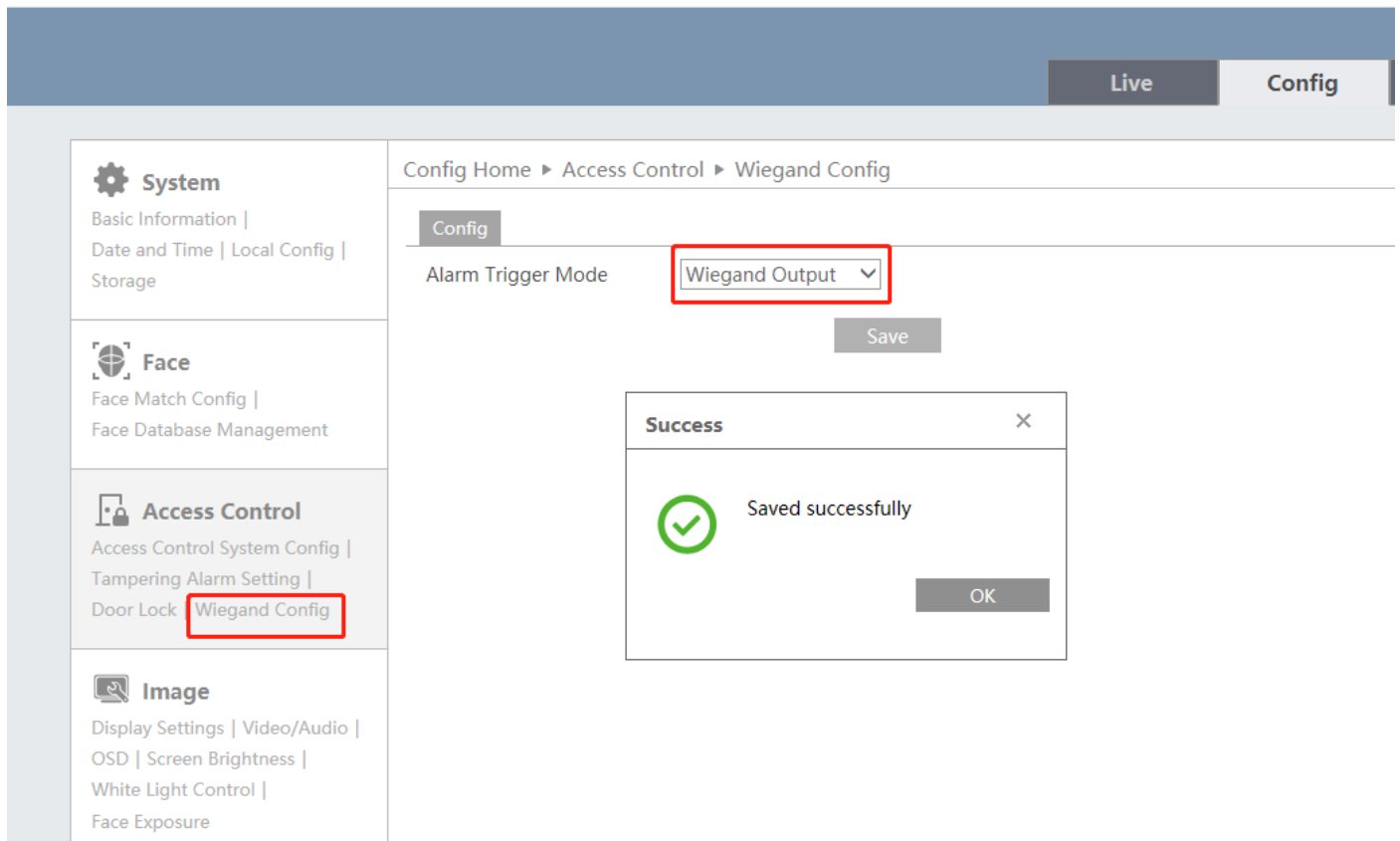
The [Wiegand Out] is a window of tablet to communicate with other system, to output data by binary electrical level change as below.



## 2. How to get the data from [Wiegand Out]?







## b) Configuration @ PC



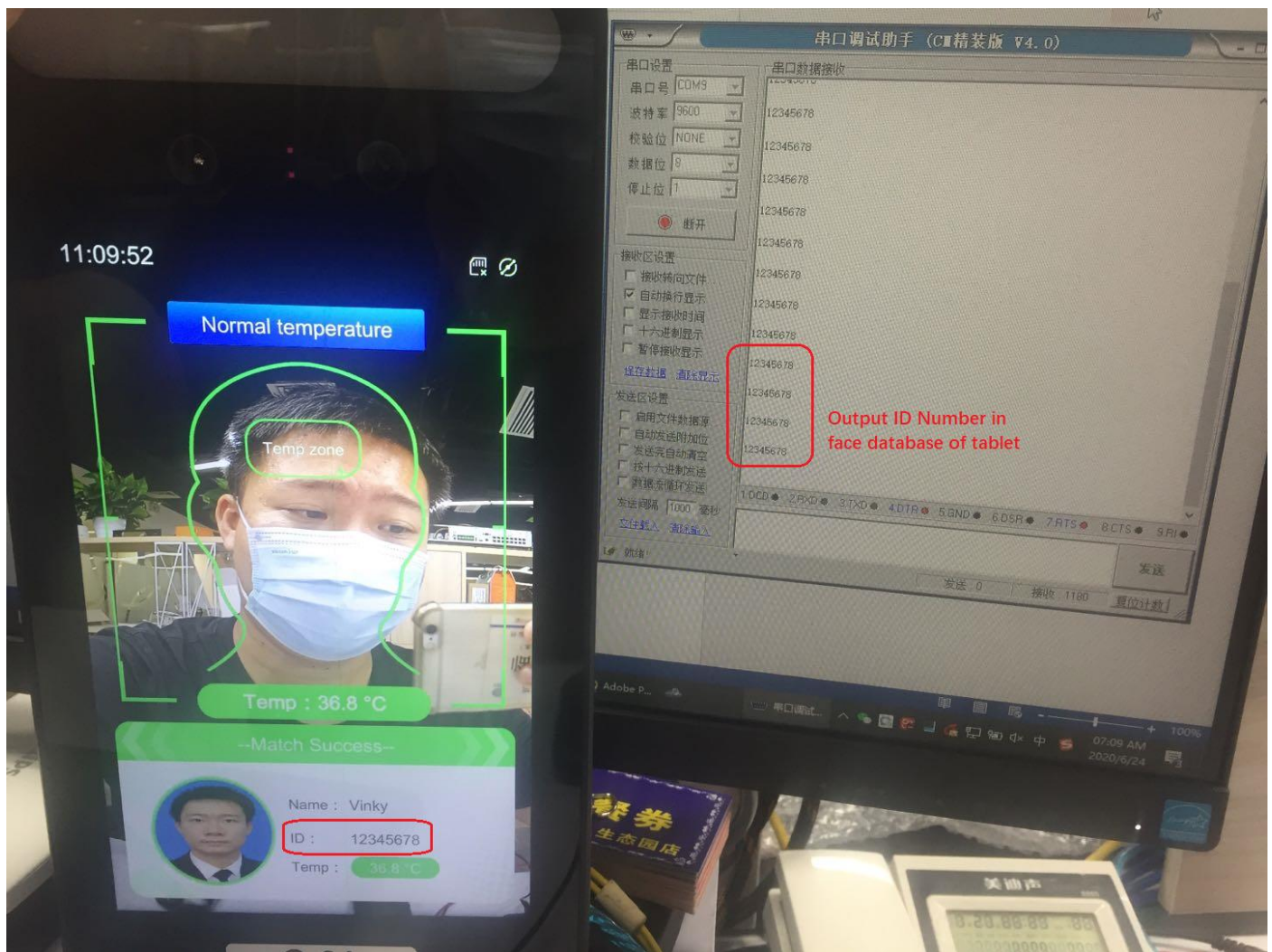
Run "UartAssist.exe" and make sure the COM number of your PC

Download Link: <ftp://common:normal@usftp.supercctv.net/Tool/UartAssist.zip>



### c) Testing

Close your face to the tablet, then the [UartAssist] show the ID number which is registered in face database of tablet.



# [Wiegand In] Application

== Face Match & Card Two-factor Authentication ==

## 1. Hardware



## 2. Hardware connection

*Red frame @ E2128*

Connect [Anode / Magnetic Lock] Push to [E2128] 3pin

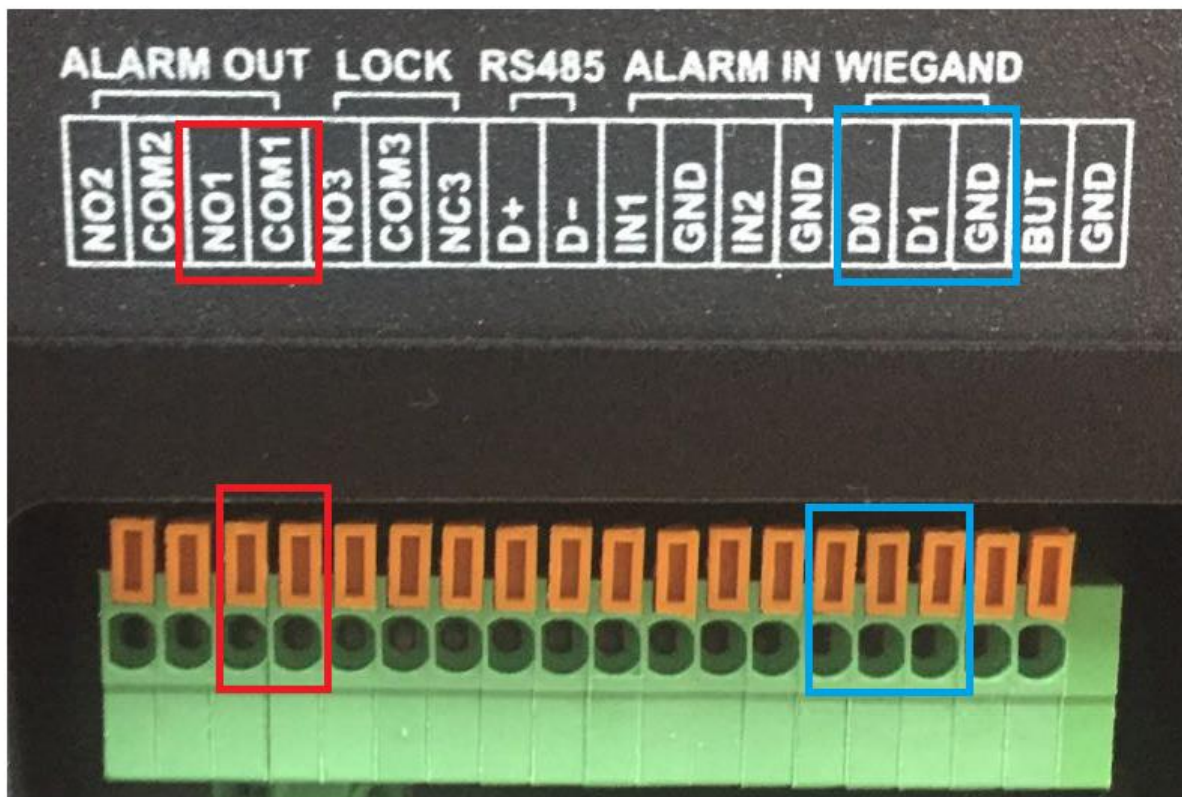
Connect [Anode / Magnetic Lock] GND to [E2128] 4pin

*Blue frame @2128*

Connect [Wiegand Card Reader] D0 to [E2128] 14pin

Connect [Wiegand Card Reader] D1 to [E2128] 15pin

Connect [Wiegand Card Reader] GND to [E2128] 16pin



18-pin Interface

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
NO2	COM2	NO1	COM1	NO3	COM3	NC3	D+	D-	IN1	GND	IN2	GND	D0	D1	GND	BUT	GND
2CH alarm output				Lock interface			RS 485		2CH alarm input				Wiegand interface			Exit Button Connector	

## Configuration @ E2128

The screenshot shows the 'webcam' configuration interface. On the left sidebar, the 'Face' section is expanded, and 'Face Match Config' is highlighted with a red box. The main content area shows the 'Face Match Config' page with a breadcrumb 'Config Home > Face > Face Match Config'. There are two tabs: 'Detection Config' (active) and 'Comparison Config'. Under 'Detection Config', the 'State' is set to 'Working'. There are two checked checkboxes: 'Save Source Information' and 'Save Face Information'. Below these are two dropdown menus: 'Snapshot Interval' set to '1 Seconds' and 'Holding Time' set to '20 Seconds'. There are four unchecked checkboxes: 'Trigger SD Snap', 'Trigger SD Recording', 'Trigger Email', and 'Trigger FTP'. A 'Save' button is at the bottom right.

**webcam**

Config Home > Face > Face Match Config

**Detection Config** Comparison Config

State Working

☒ Save Source Information

☒ Save Face Information

Snapshot Interval 1 Seconds

Holding Time 20 Seconds

☐ Trigger SD Snap

☐ Trigger SD Recording

☐ Trigger Email

☐ Trigger FTP

Save

1. Make sure Face Match Detection function is [Working].

The screenshot shows the 'webcam' configuration interface. On the left sidebar, the 'Face' section is expanded, and 'Face Match Config' is highlighted with a red box. The main content area shows the 'Face Match Config' page with a breadcrumb 'Config Home > Face > Face Match Config'. There are two tabs: 'Detection Config' and 'Comparison Config' (active). Under 'Comparison Config', there is a checked checkbox 'Deduplication Period' set to '3 Seconds'. Below that is a 'Similarity threshold' set to '75 %'. There is a checked checkbox 'Send the face comparison data'. Below that are two checkboxes: 'Alarm Out 1' (checked and highlighted with a red box) and 'Alarm Out 2' (unchecked). A 'Save' button is at the bottom right.

**webcam**

Config Home > Face > Face Match Config

Detection Config **Comparison Config**

☒ Deduplication Period 3 Seconds

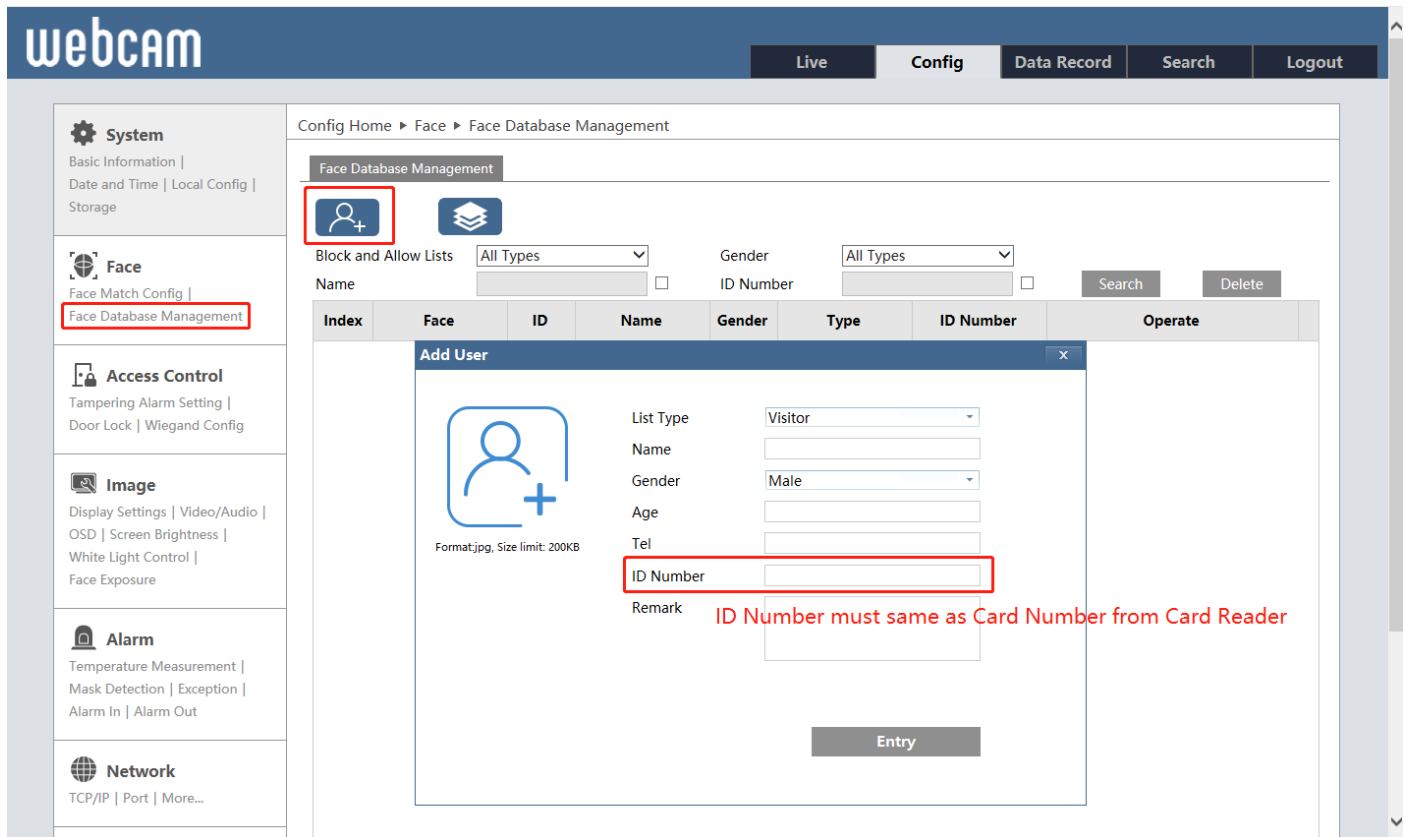
Similarity threshold 75 %

☒ Send the face comparison data

☒ Alarm Out 1 ☐ Alarm Out 2

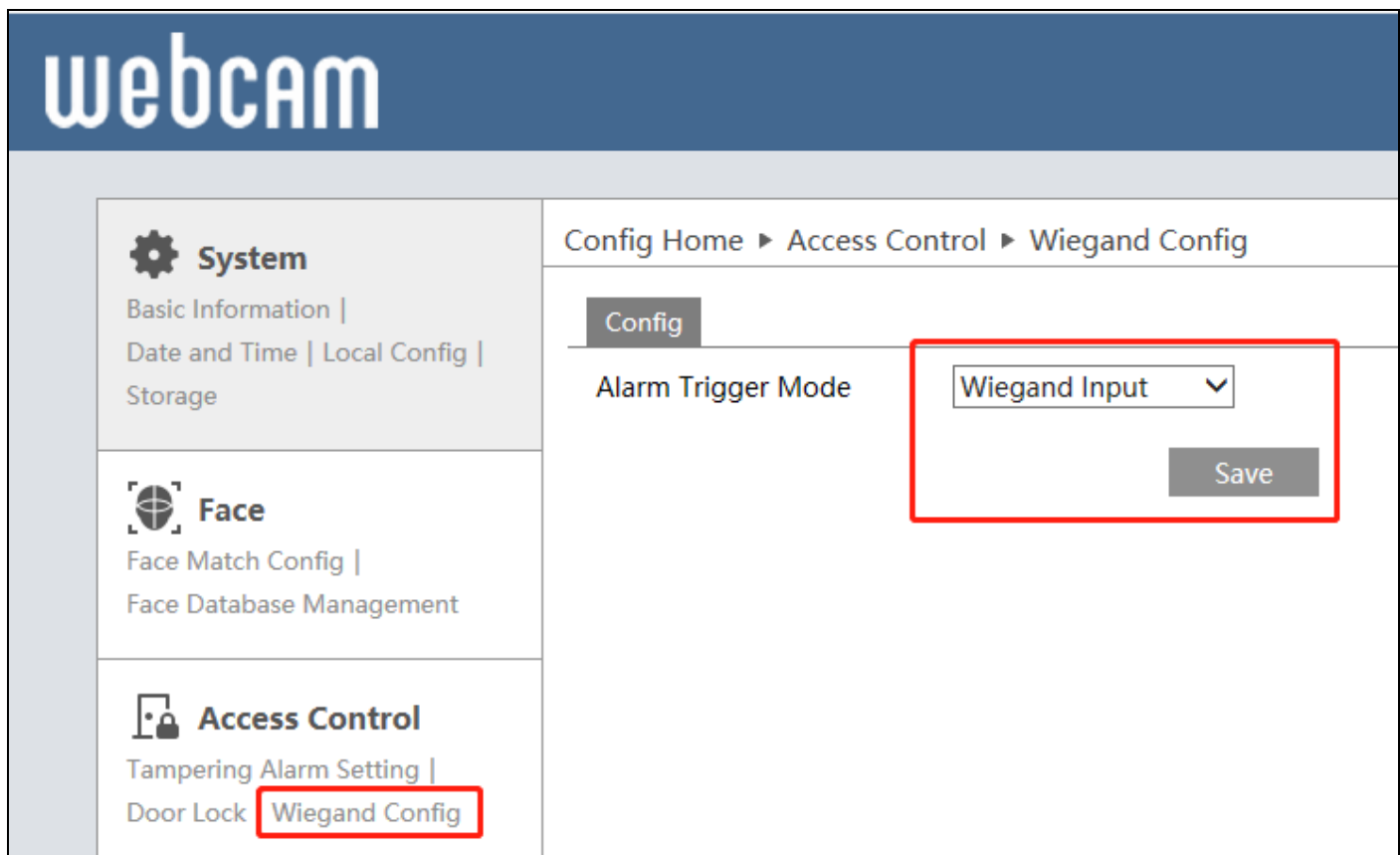
Save

2. Enable the [Alarm out1] function.



### 3. Add user to the Face Database.

Please make sure the [ID Number] is same as the [Card Number] from Card Reader.



### 4. Select the Wiegand Config to [Wiegand Input].





## System

Basic Information |  
Date and Time | Local Config |  
Storage



## Face

Face Match Config |  
Face Database Management



## Access Control

Tampering Alarm Setting |  
Door Lock | Wiegand Config



## Image

Display Settings | Video/Audio |  
OSD | Screen Brightness |  
White Light Control |  
Face Exposure



## Alarm

Temperature Measurement |  
Mask Detection | Exception |  
Alarm In **Alarm Out**

Config Home ► Alarm ► Alarm Out

Alarm Out ID

Alarm Out Mode

Alarm Out Name

Alarm Holding Time

Alarm Type

Save

5. Make sure the [Alarm Out] setting same as this screenshot.

You can change the [Alarm Holding Time] to adjust the lock opening time.