User manual

DESCRIPTION

The HIQ Safe Gate system consists of several different safety procedures and devices that allow or restrict access. Granting access is based on the number of people in the building and on fullfiling certain entry conditions, such as hand disinfection, medical condition (normal body temperature), use of a protective mask …, which becomes quite useful in these times with current problems with epidemic. The system can be used in office buildings, hospitals, airports, stadiums,…

Number of different funcionalities of safe gate will be presented next.

People counting (TOF) sensor

Safe gate allows counting and restricting access based on the number of people. It counts people entering and exiting the building with TOF sensor.

TOF sensor is installed facing down above entrance to the area you want to count people in or out of. The counter works by detecting when a person crosses an invisible count line that has been configured in settings.



QR code and RFID card reader

Reader is installed on Safe gate to determine person's user profile.





Hand sanitizer

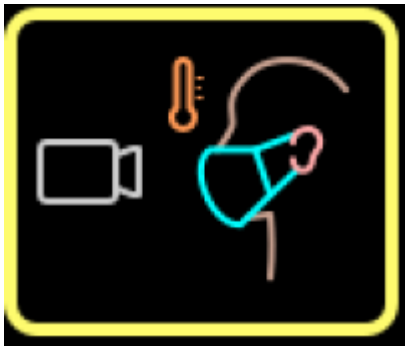
Safe gate checks if person that wants to enter, had applied hand sanitizer.





Mask and body temperature scanner

Scanner scans person's face for mask and check his temperature. If it's not wearing a mask or it's body temperature is too high, it's not allowed to enter.



Entry conditions

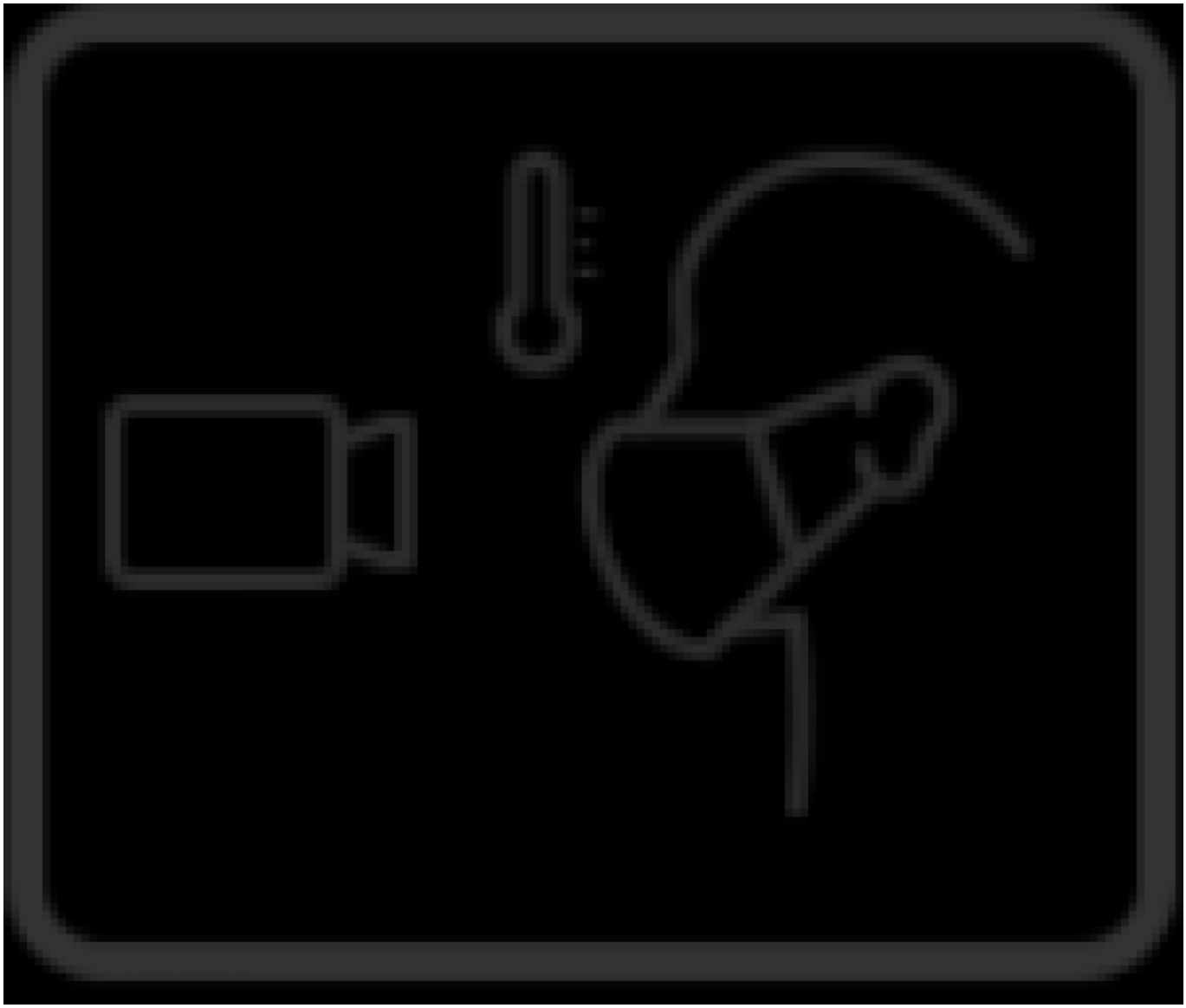
Safe gate can check if the person entering is wearing a face mask, if it applied hand sanitizer and if it has a fever. If it fails the conditions that are required, the person can't enter.

Safe gate allows granting entry by scanning a card (or QR code). There are three user profiles:

User profiles - access level meaning	
L1	This is **normal** level of access
L2	This is **VIP** level of access
UL	This is **employee** level of access

Alternatively, person can enter if the receptionist gives it an allowance. In this case, receptionist confirms level of access by identifying the person.

There are icons that are shown on the graphical display, so the person entering can see, what it must do next to enter. The graphical display shows condition you have to met next or alternatively if you are allowed to enter or have to exit the building. On the top line there are icons of all conditions and the counter of people. Colored conditions have to be met to enter, gray conditions doesn't have to be met or can't be met yet. On the rest of the screen, there is a big icon of a condition which should be met next. When it's met, the icon changes to next required condition. Next to the icon is text in three lines. On the first line there's a caption, on the other two lines is a text associated with a required condition that is shown with a big icon. The screen looks similar to the next picture:



There are many different border colors that change if the conditions is required (or not) and if the condition is met (or not).

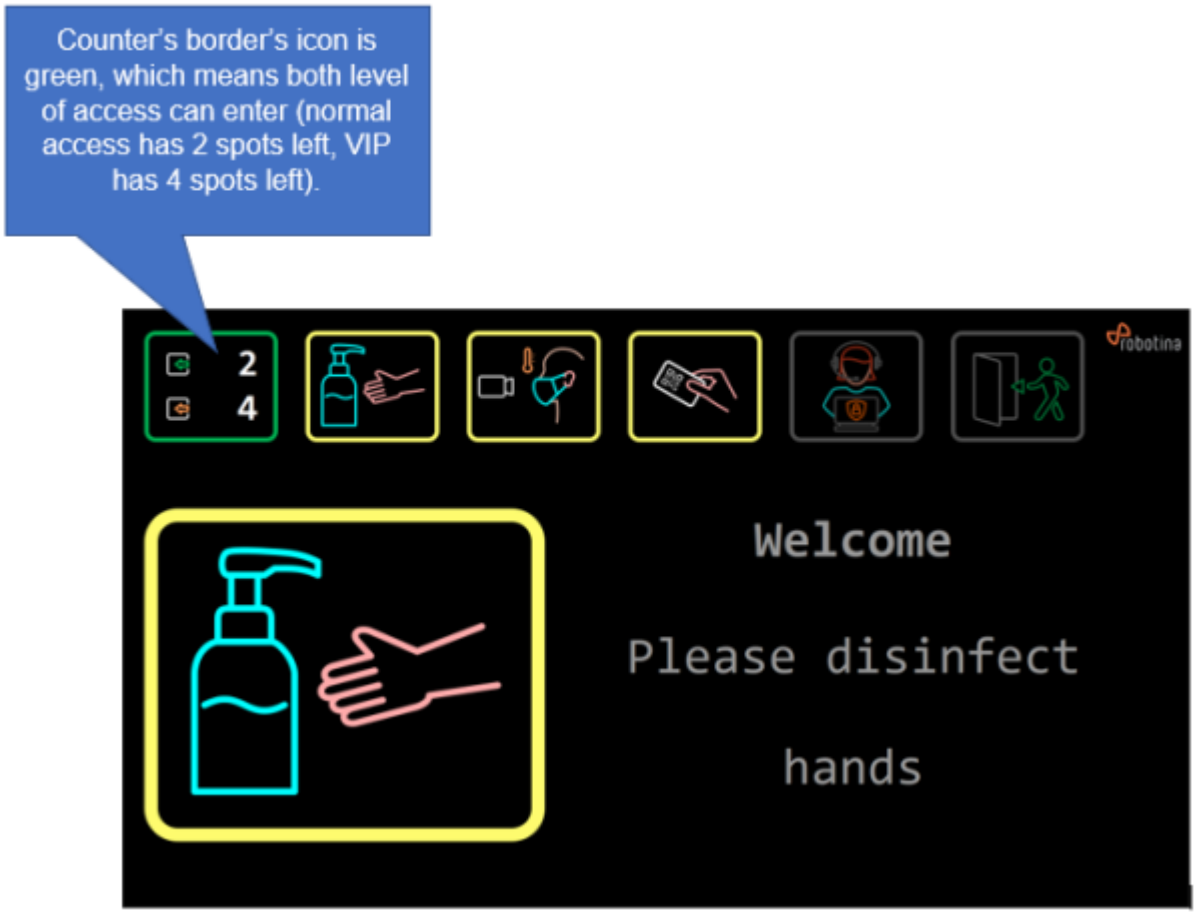
Border color meaning		
	Grayed out	This condition is enabled, but it can't be met right now
	Yellow	This condition must be met and is waiting for the person to do it
	Orange	From now on you can enter only with **VIP** allowance
	Green	Everything is okay, you're clear to enter
	Red	Something is wrong, you must not enter
	Gray	This condition doesn't have to be met because it's disabled

Status overview		
	Occupation status and limit count	It shows occupied status and remaining count to the limit of people. First (upper) number shows count of people with **normal** access, second (lower) number shows count of people with **VIP** access
	Hand sanitizer status	It shows if person had applied hand sanitizer
	Allowance status	It shows if person has a fever and if he wears a facemask
	Card reader	It shows if the use of entry card is needed and the user's level of access
	Confirmation status	It shows if the receptionist had left you in and the person's user profile

Enter status	It shows if person should enter or exit

Different scenarios shown on display:

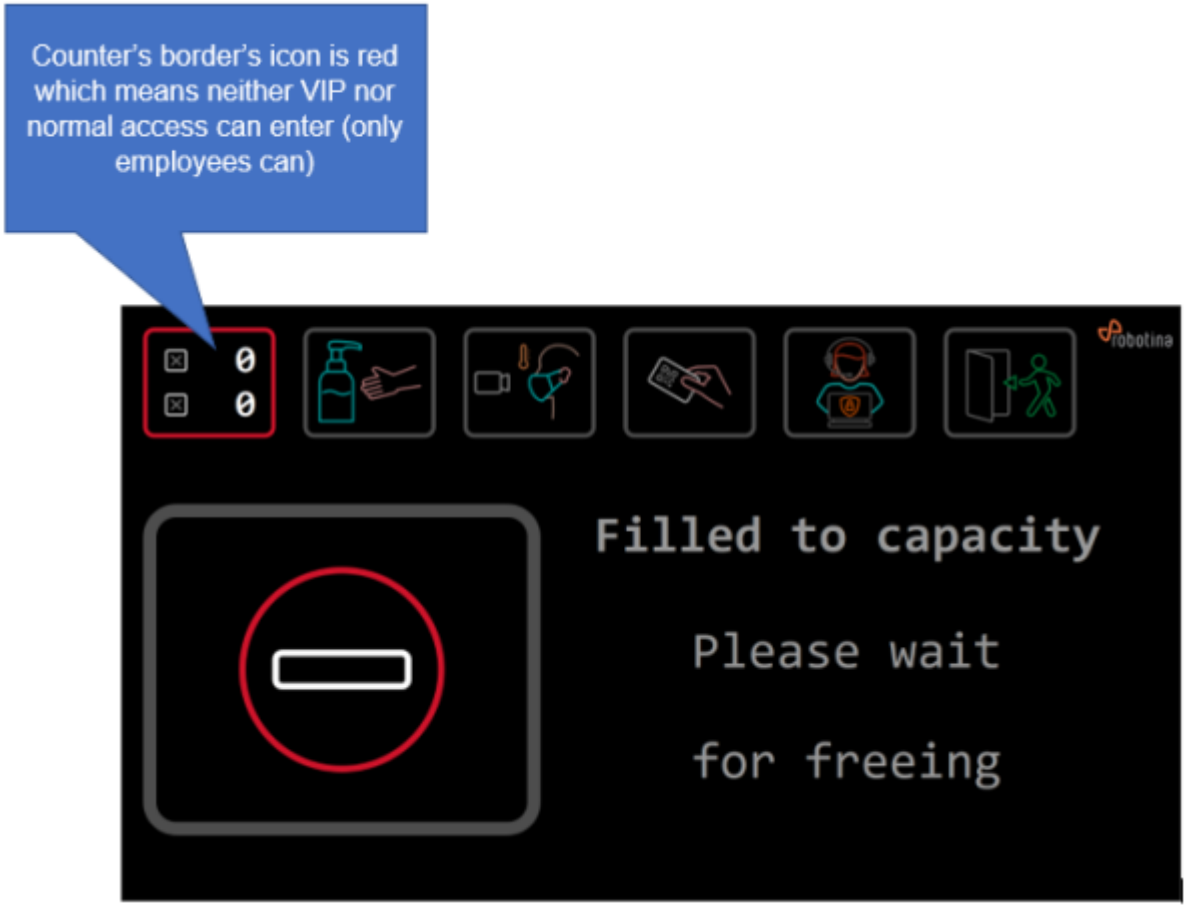
In the upper left corner the counter is shown. If it's border is green, both user profiles can enter. Upper counter is for the number of the people with **normal** profile that can still enter the building (2), bottom counter is for the number of the people with **VIP** profile that can still enter (4). Caption is set to “Welcome”



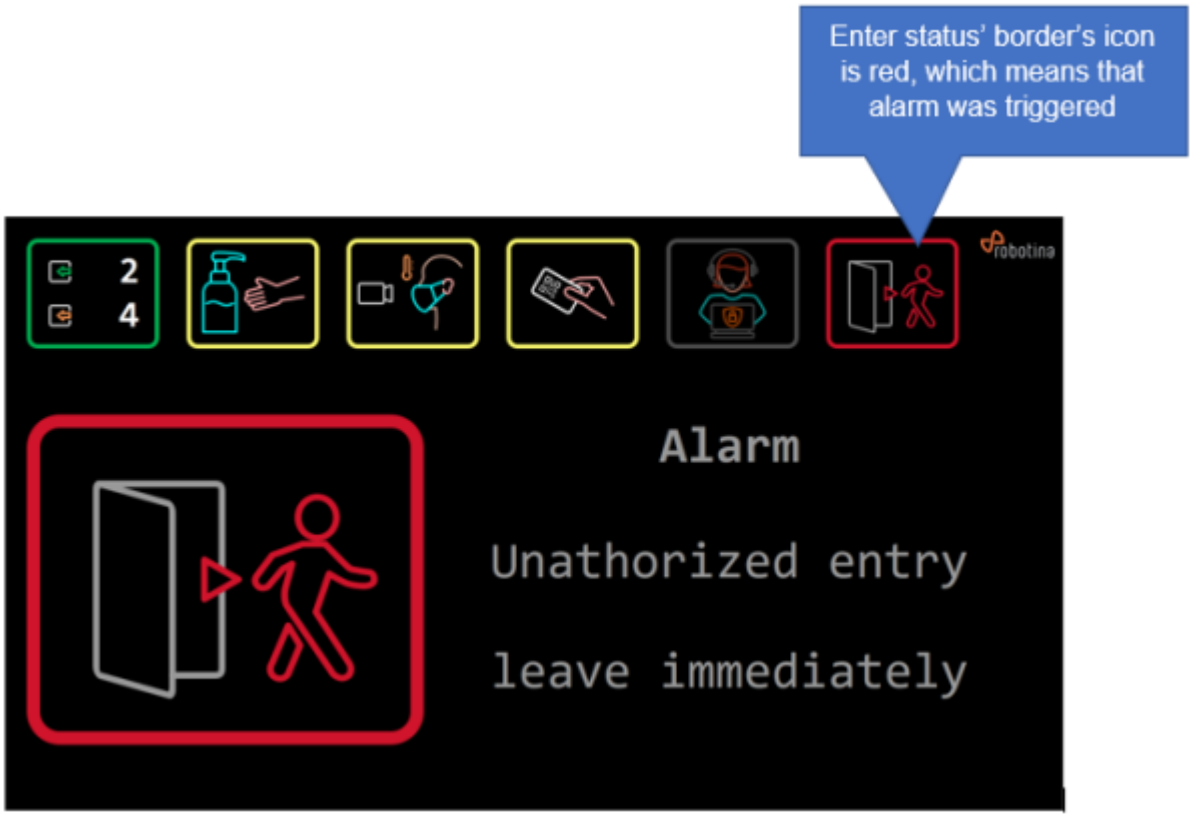
When **normal** capacity is full, but **VIP** can still enter the border of counter turns orange and the caption changes (for example) to: “VIP only”.



When **VIP** capacity is also full and only **employees** can enter, the border of counter icon changes to red and the big icon changes to this. Here the caption is set to: “Filled to capacity and the text is set to: “Please wait for freeing.”

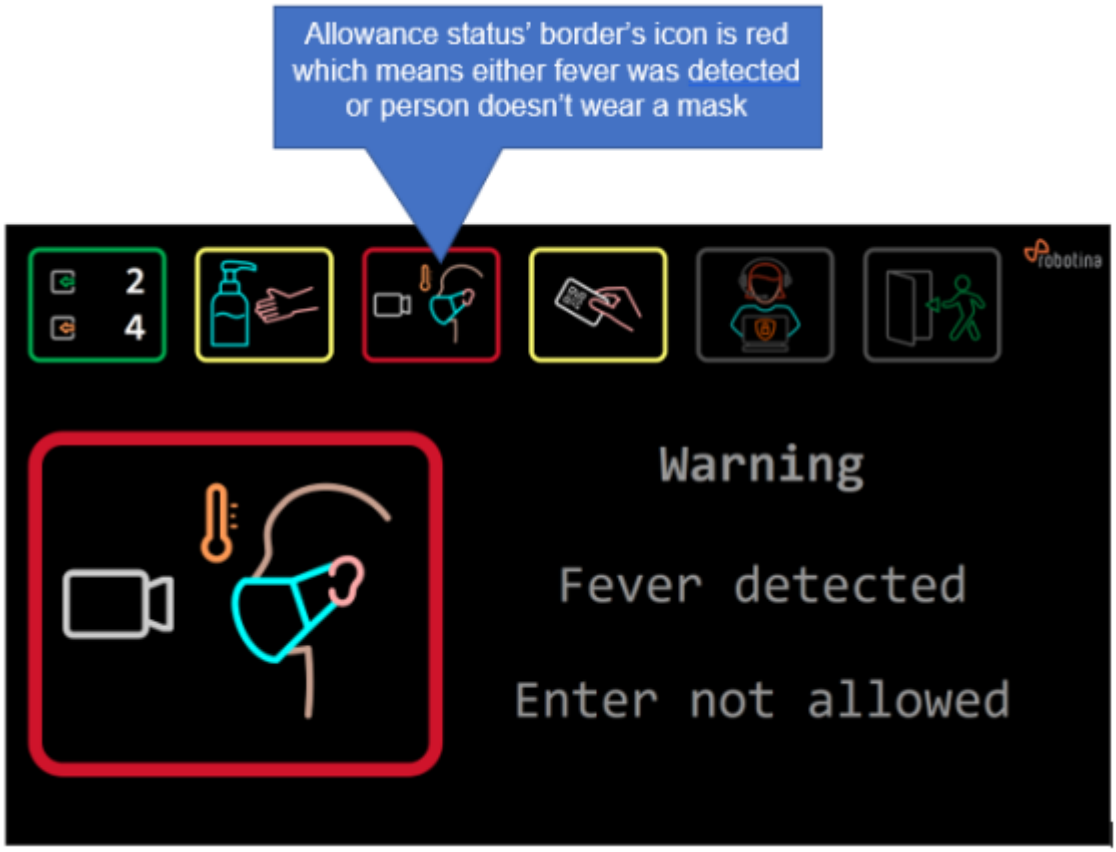


This is the icon that is shown if the alarm is triggered. The border of enter status changes to red. The caption changes to: “Alarm”, and the text changes to: “Unauthorized entry, leave immediately”.

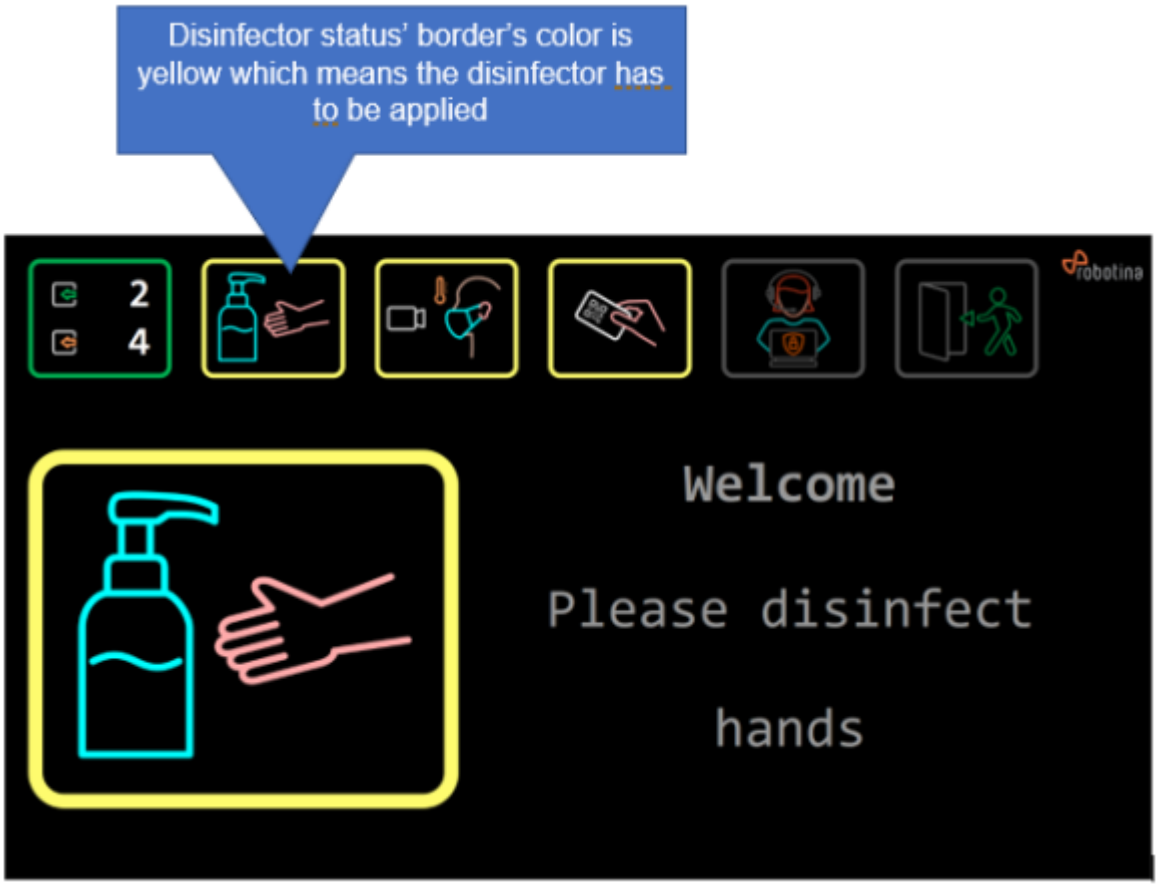


This is the icon that is shown if the fever is detected or if the person doesn't wear a face mask.

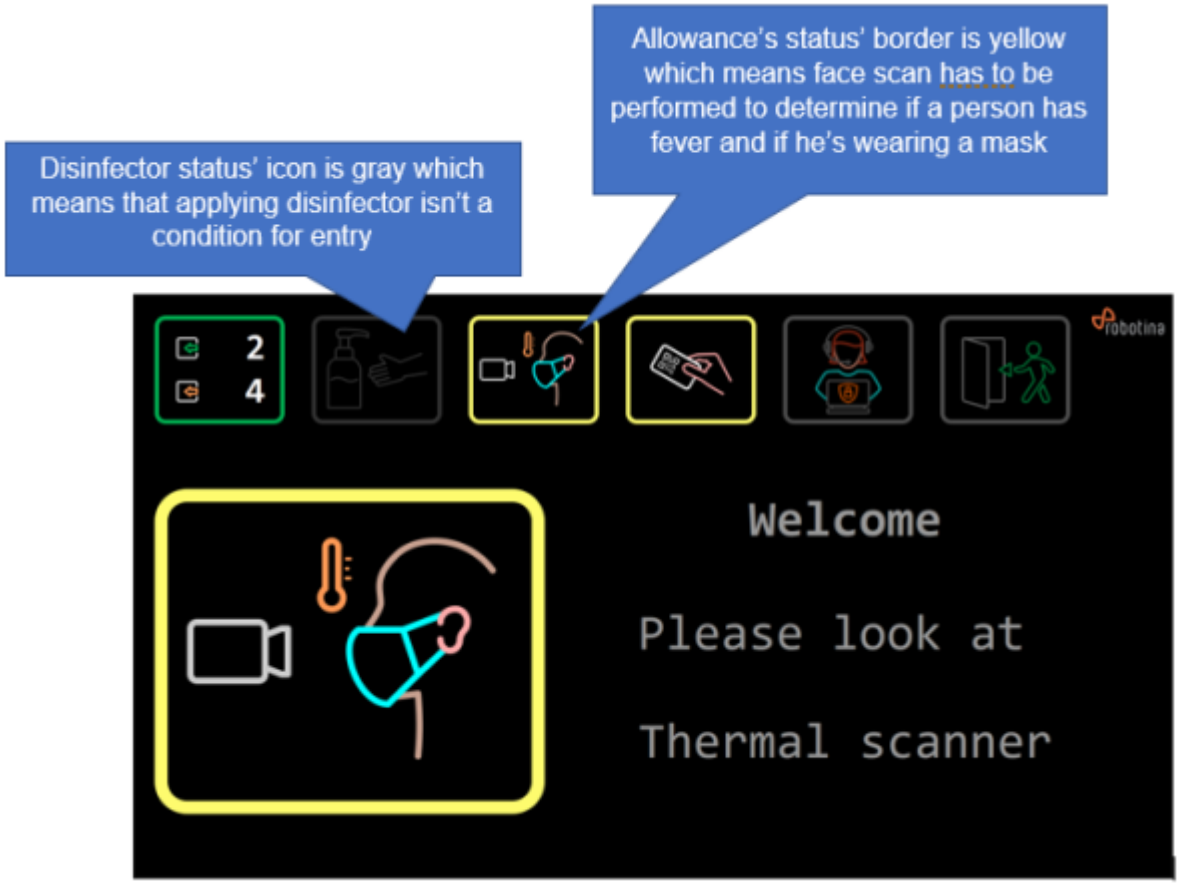
Allowance status' icon border changes to red. The caption changes to “Warning” and the text changes to “Fever detected”.



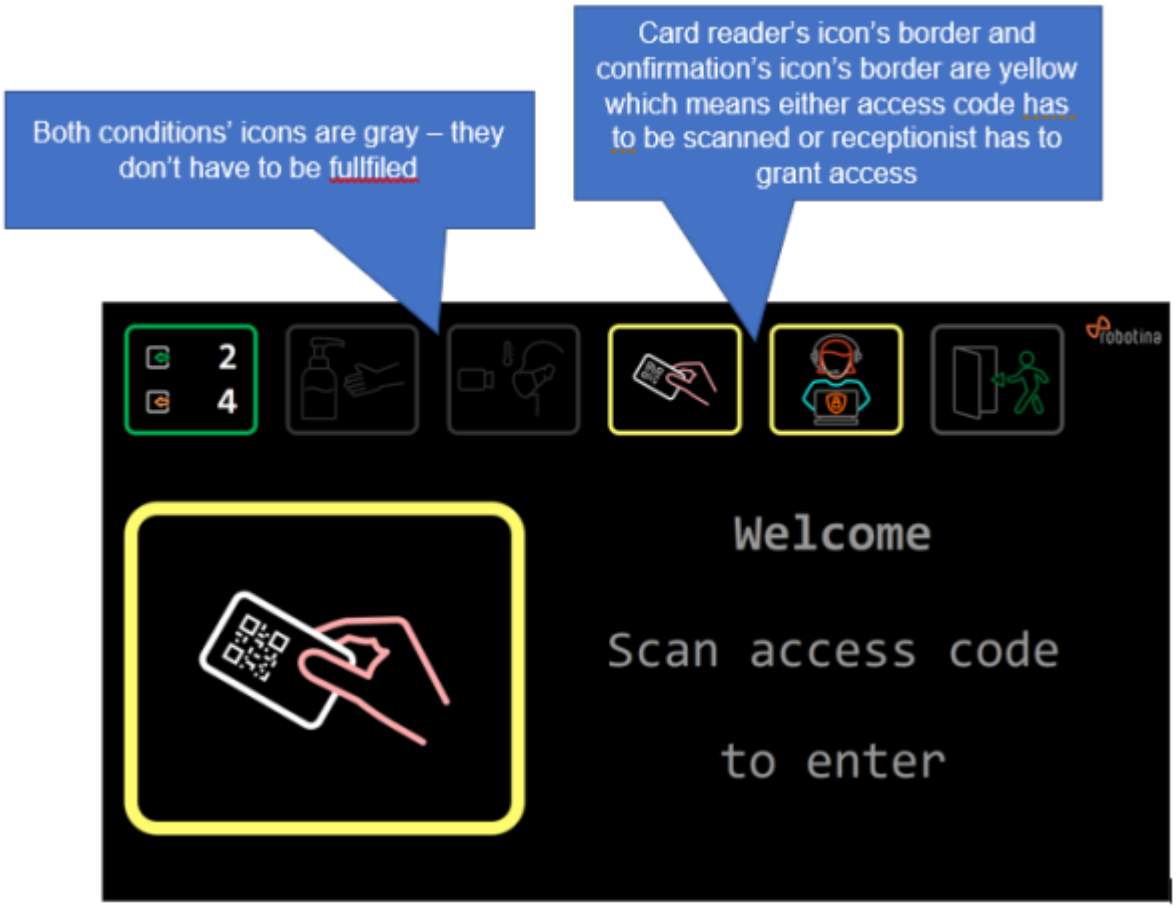
This is the icon that is shown if the required condition is to disinfect hands. Icon's border is yellow which means it's required. Text is set to ” Please disinfect hands“.



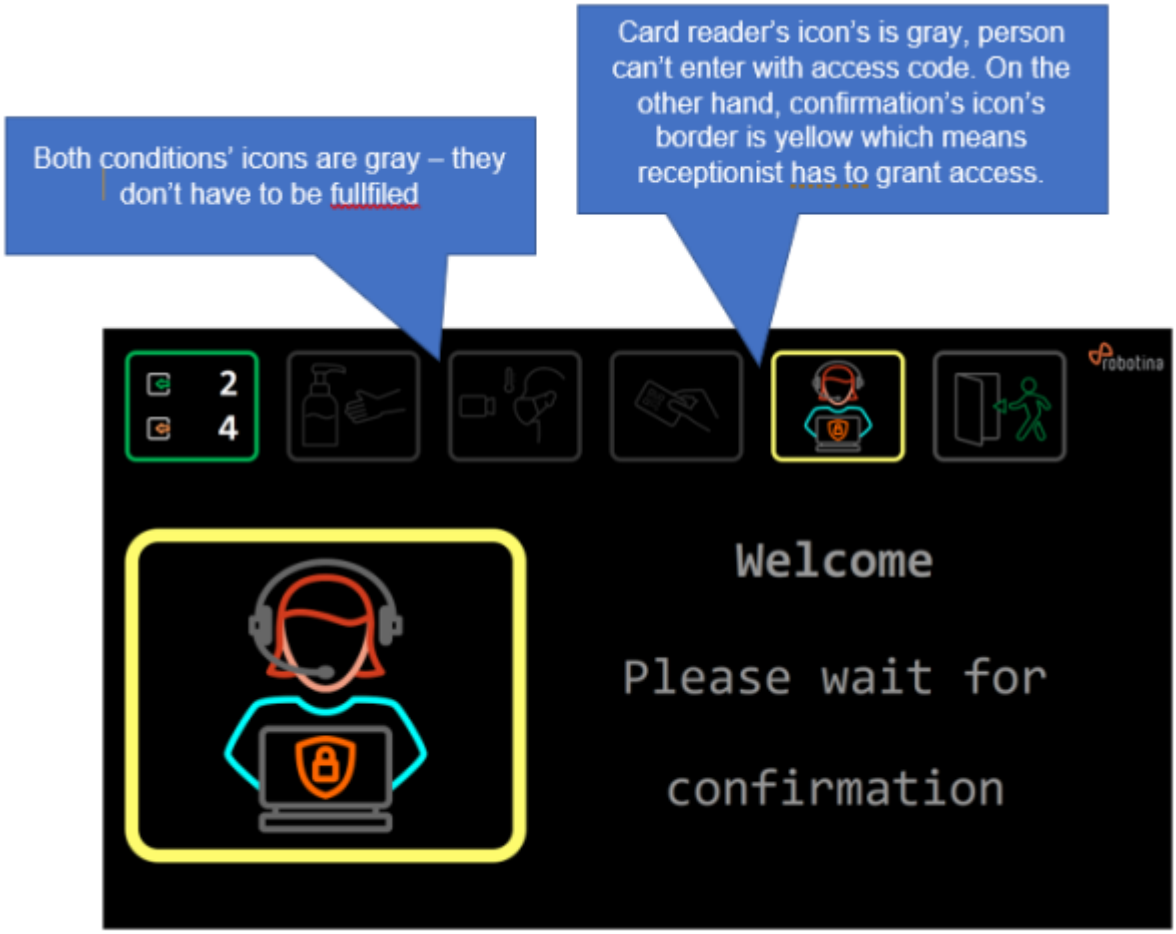
This is the icon that is shown if the required condition is for person to scan his face for mask and to measure temperature. Icon's border is yellow which means it's required. Text is set to “Please look at thermal scanner”.



This is the icon that is shown if the required condition is to scan the access code. Icon's border is yellow which means it's required. The text is set to “Scan access code to enter”.



This is the icon that is shown if the receptionist's confirmation is required to enter. Icon's border is yellow which means it's required. The text is set to: “Please wait for confirmation.”



This is the icon that is shown if the person is allowed to enter. Icon's border changes to green which means everything is okay and you're cleared to enter. The text is set to: “Please enter”.



Entering procedure

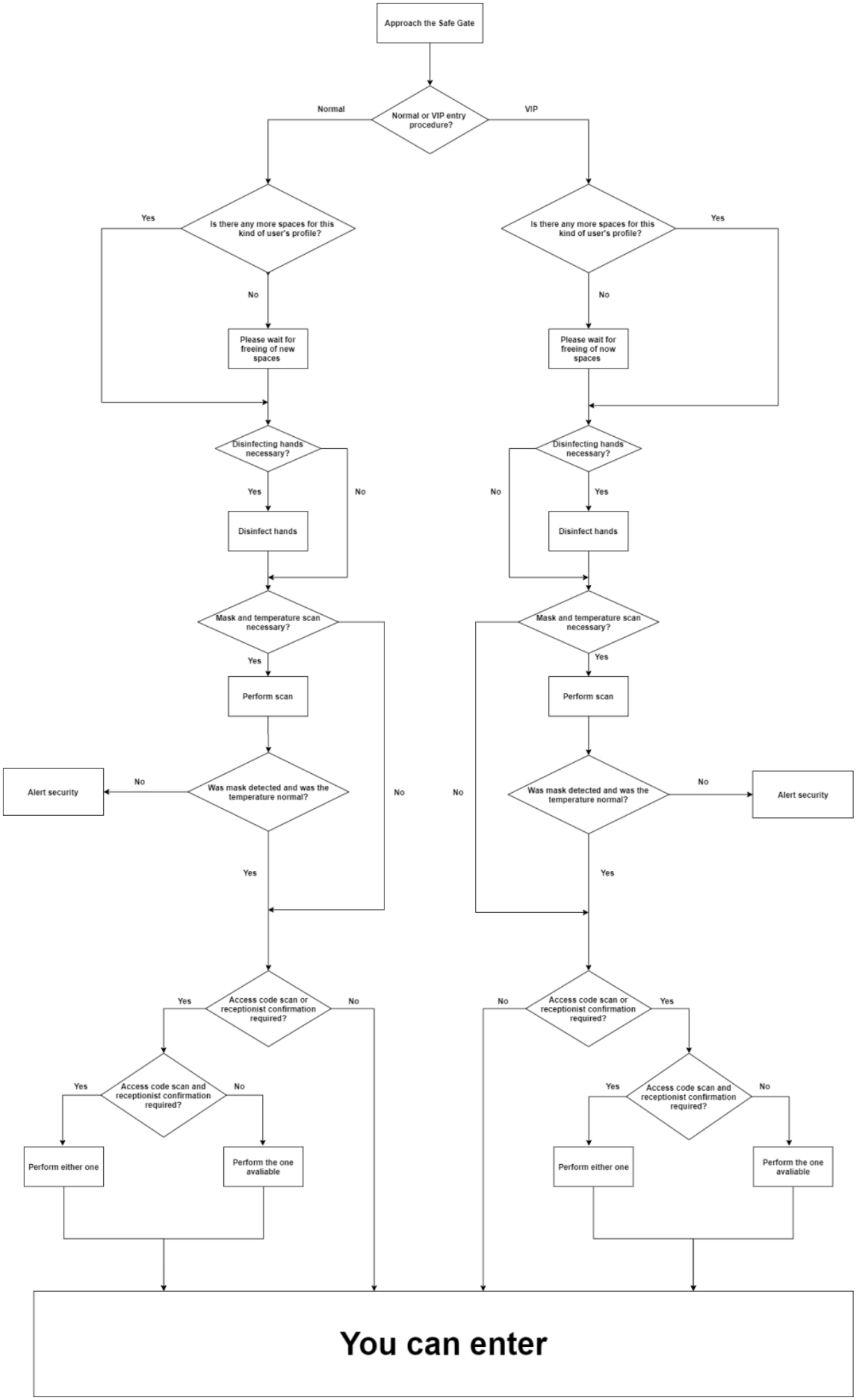
When the person aprroaches the safe gate, presence sensor is triggered. LED and graphical display show required conditions to enter.

Firstly, the hand sanitizer should be applied and face scan performed, if necessary. Face scanner checks if the person is wearing a mask and if his body temperature is normal. Then one of two steps is required to enter. Person must scan its card, to determine its user profile and if it had completed all of the necessary steps for that profile. Alternate option is that receptionist opens the door. After completing the necessary steps, button for allowing **normal** and/or **VIP** profile become enabled, receptionist then confirms person's profile and it can enter.

Next to the door is a semaphore. If the red light is on, that means you didn't complete all of the required conditions to enter. If, along with red light, alarm starts beeping too, the person must leave the building immediately. This happens for example if fever is detected. When the green light on the semaphore turns on, the person is clear to enter.

It's possible that the limit of people is reached. If that happens, person can't enter the building even if all of the required conditions were completed. First limit is for **normal** profile, person with that profile can't enter after that limit is reached. Second limit is for **VIPs**. After that limit is reached, only **employees** are allowed inside.

There are two allowance types, permission and prevention. If permission is selected, doors are closed until all condition are fulfilled, after which they open. If the prevention is selected, doors are open. If person fails to meet all conditions, doors close.


Approach the Safe Gate
Normal or VIP entry procedure?
Normal
VIP
Is there any more spaces for this kind of user's profile?
Yes
No
Please wait for freeing of new spaces
Please wait for freeing of now spaces
Disinfecting hands necessary?
Disinfect hands
Mask and temperature scan necessary?
Perform scan
Was mask detected and was the temperature normal?
Alert security
Access code scan or receptionist confirmation required?
Access code scan and receptionist confirmation required?
Perform either one
Perform the one avaliable
You can enter

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