

User manual

FUNCTION

The HIQ Safe Gate system allows counting and restricting access based on the number of people. In addition, it allows automatic verification of 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. Number of different functionalities of safe gate will be presented next

TOF sensor

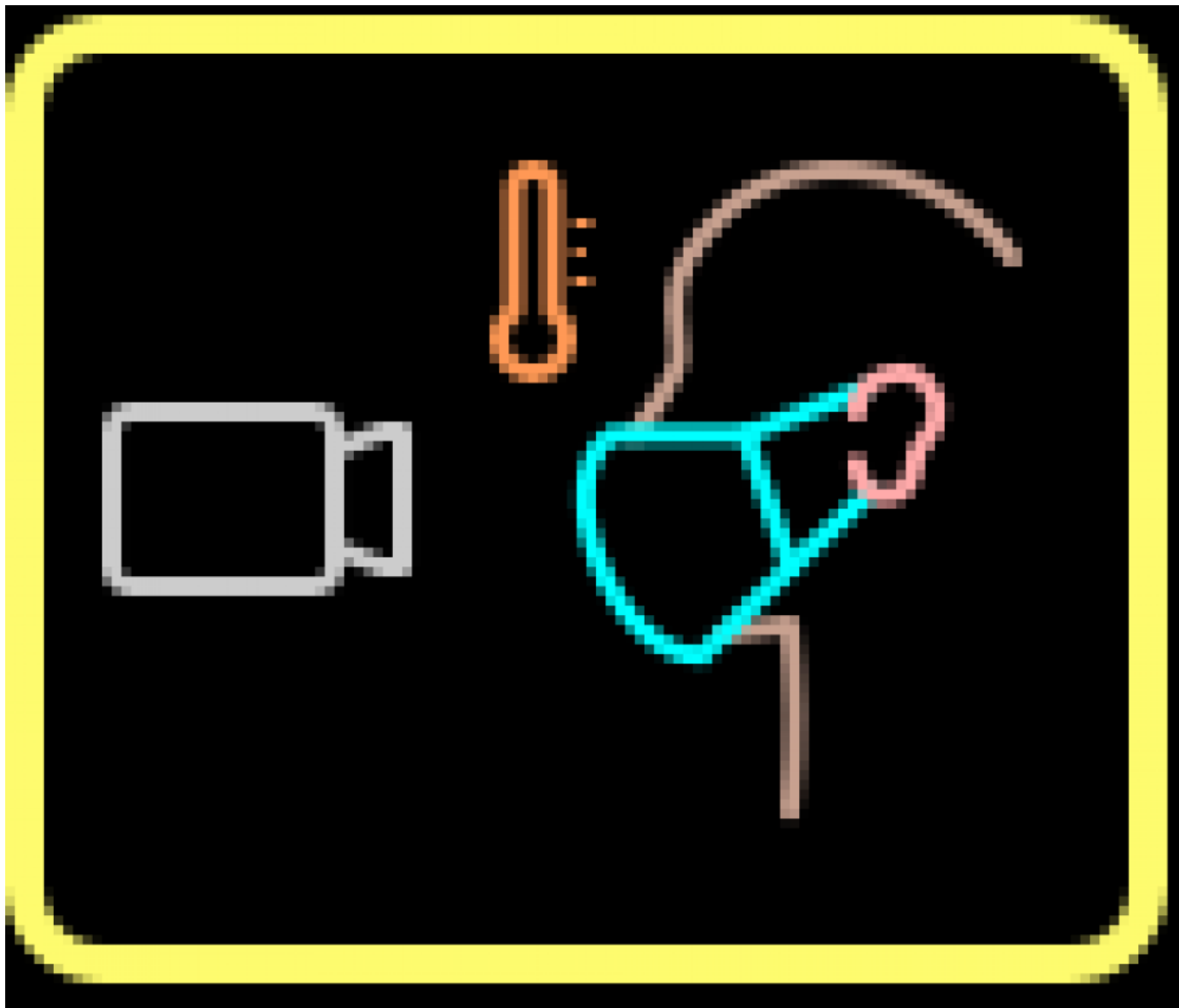
Safe gate allows counting and restricting access based on the number of people. It counts people entering and exiting the building with TOF sensor.

TOF sensor must be 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.

To access these setting, type <http://x.x.x.x/login> in browser; x.x.x.x being the device's IP address. On the site, login is required. When inside, the Summary menu opens.



Change the menu to Settings. Select the Counting sub-menu. This menu is for configuring counting functionality. To enable moving the lines, enable Edit mode in the upper left corner.



Configure the count lines so that people are counted accurately. When positioning the lines, always ensure that there is enough 'initialisation' space for the counter to recognise a person and start tracking them - lines should be positioned away from the edge of the field of view.

To position and shape the lines:

-First enable Line Editing Mode
-Click and drag on a straight part of a line to move the whole line.
-Click on large end or middle 'drag' point to move just that point.
-Click on a small point on a line to create another drag point.
-Hold CTRL and click on a drag point to delete it.
-In standard door counting applications it is recommended to position the lines around the door in a U or arc shape. To avoid counting 'cross traffic' ensure that the correct count mode is selected.

In most cases lines configured for IN and OUT should be positioned in the same position and configuration with only the direction reversed.

Advanced features of TOF sensor allow:

-Staff detection. Detection is passive, all employees need to do is wear a special lanyard.







- Staff call and attend. Automated alerts for staff members can be raised when customers are detected waiting.
- Dwell time monitoring. The length of time customers spend in defined zones can be measured and reported.
- Height measurement and filtering. Height is measured accurately to +/- 2cm and can be used to set filters, for example exclude children and just count adults.







Entry conditions

Safe gate can check if the person entering is wearing a face mask, if it applied disinfectant 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 access levels, L1 is for normal access, L2 is for VIP access and the UL is for employees. Alternatively, person can enter if the receptionist gives it an allowance.

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	
	Gray This condition doesn't have to be met because it's disabled
	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
	Green Everything is okay, you're clear to enter
	Orange From now on you can enter only with L2 allowance
	Red Something is wrong, you must not enter

Status overview		
	Occupation status and limit count	It shows occupied status and remaining count to the limit of people. First (upper) number is shows count of people with normal access, second (lower) number shows count of people with VIP access
	Disinfectant status	It shows if person had applied a disinfectant
	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 level of access
	Enter status	It shows if person should enter or exit

These icons 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. Examples of display:

In the upper left corner the counter is shown. If it's border is green, both level of access can enter. Upper counter is for the number of the people with L1 access that can still enter the building (2), bottom counter is for the number of the people with L2 access that can still enter (4). Caption is set to

“Welcome”



When L1 capacity is full, but L2 can still enter the border of counter turns orange and the caption changes (for example) to: “VIP only”.



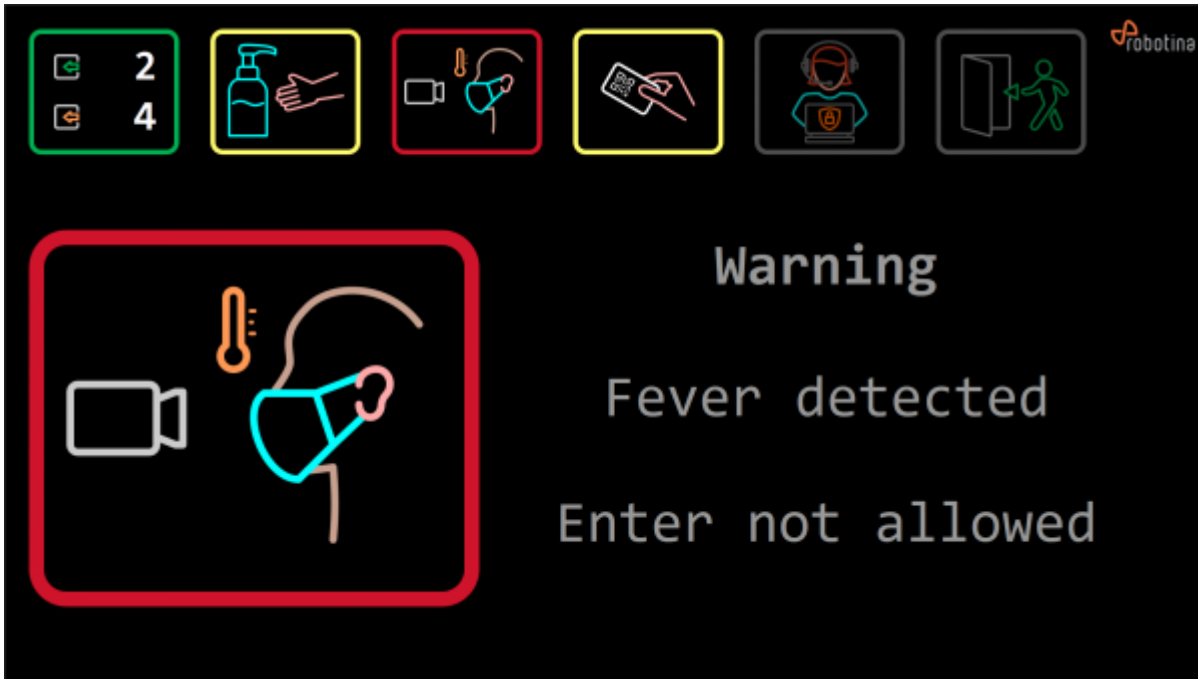
When L2 capacity is also full and only UL access can enter, the border of counter icon changes to red and the big icon changes to this. Here the caption is set to: “Filled to capacity and the text is set to: “Please wait for freeing.”



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



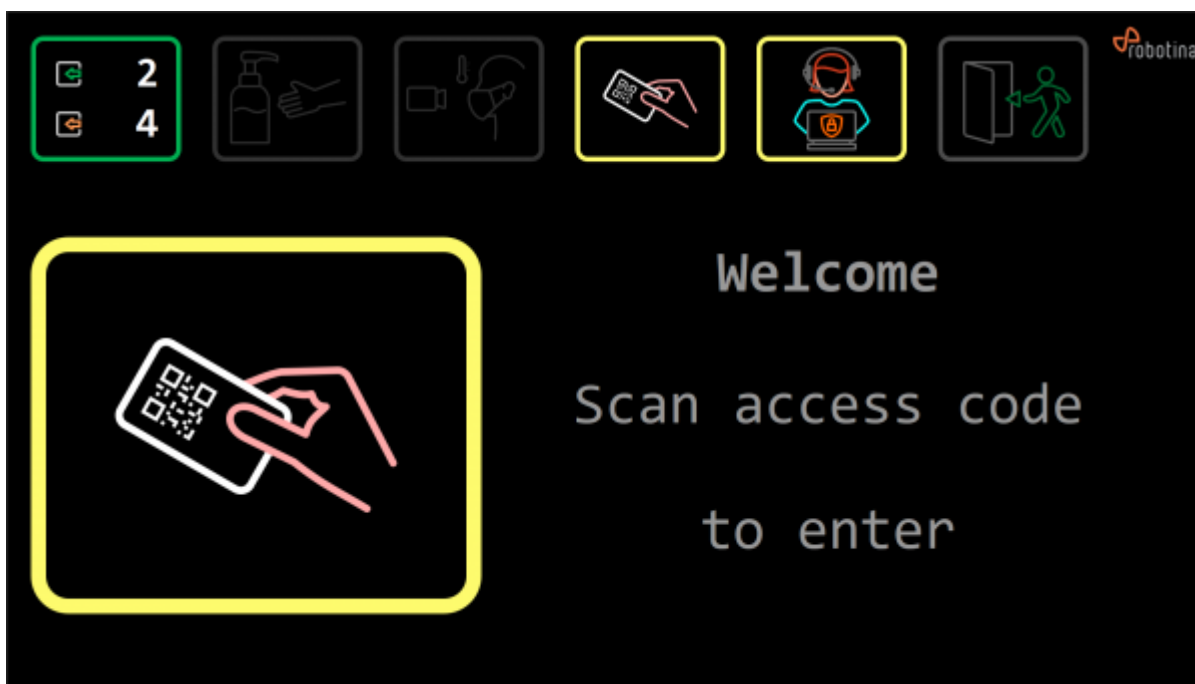
This is the icon that is shown if the required condition is to disinfect hands. Icon's border is yellow which means it's required. Text is set to " Please disinfect hands".



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 enters the building and stands before the safe gate, presence sensor is triggered. LED and graphical display show required conditions to enter.

Firstly, the disinfection 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 level of access and if it had completed all of the necessary steps for that level. Alternate option is that receptionist opens the door. After completing the necessary steps, button for allowing L1 and/or L2 access become enabled, receptionist

then confirms person's level of access 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 L1, person with that access can't enter after that limit is reached. Second limit is for L2. After that limit is reached, only UL access is allowed inside (employees).

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.

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