

ICU Face | Quick Start Guide

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Getting started

1. Unpack your ICU development kit
ICU Device unit, USB & PSU



2. Register your new ICU unit to your account and setup your camera(s)



3. Configure your ICU device



- Add Members
- Add Groups
- Edit Actions
- Manage Outputs

Registering your ICU Device unit and setting up camera(s)

First step is to find IP address of your specific device (on your network). You log on to your device in order to ready it for use. To do so, follow the next steps.

1. Insert the USB key and Ethernet cable. Power up the unit



2. Remove USB once blue light shows on ICU

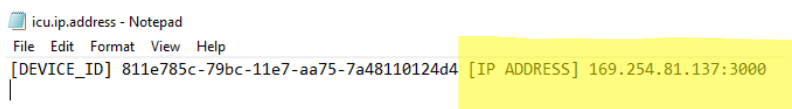


3. Insert USB into PC and open the new text file



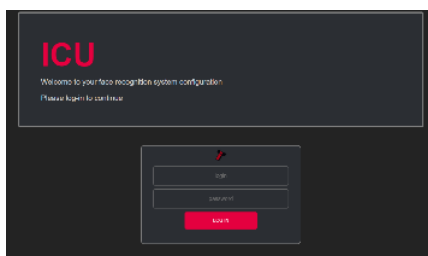
icu.ip.address

4. Type the IP address into any browser (Google Chrome, Internet Explorer)

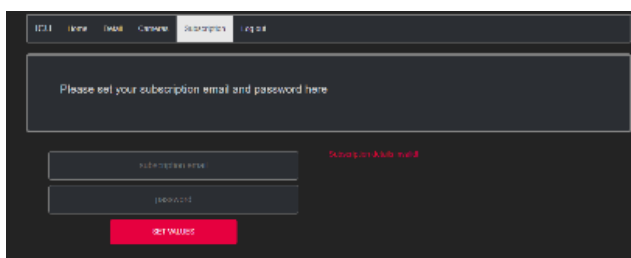


```
icu.ip.address - Notepad
File Edit Format View Help
[DEVICE_ID] 811e785c-79bc-11e7-aa75-7a48110124d4 [IP ADDRESS] 169.254.81.137:3000
```

5. To access your device, enter:
Login: admin Password: admin123



6. You will now be prompted to enter your account details. Enter your details as supplied by Innovative Technology.



**You have now successfully registered your new ICU to your online account.
Next, you will need to set up camera(s) to your unit.**

Setting up your camera(s)

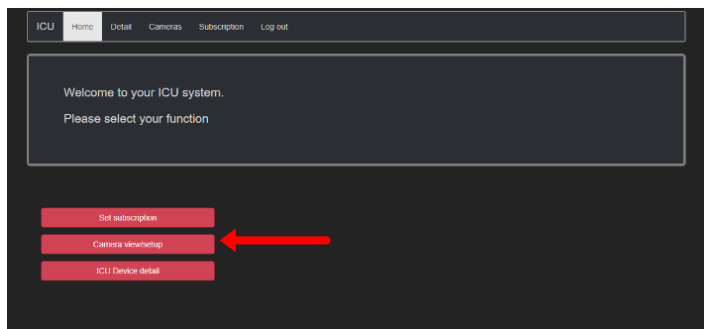
- i** USB and IP cameras can be use with the ICU Device

USB Cameras

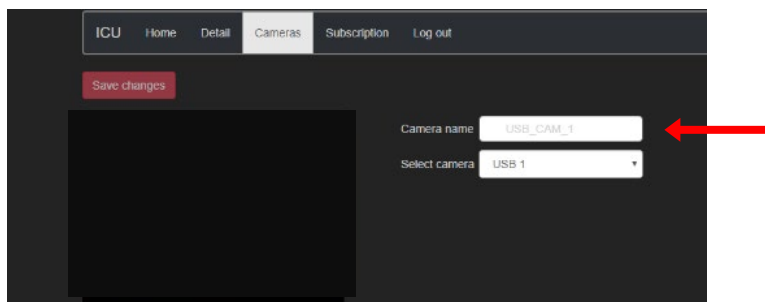
1. Plug USB camera into either USB port



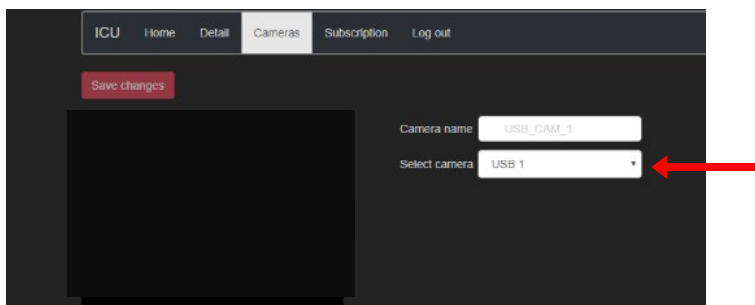
2. Click 'Camera view/setup'.
This will open the camera configuration page



3. Enter Camera Name
This name will refer to this camera throughout your account



4. Select USB input



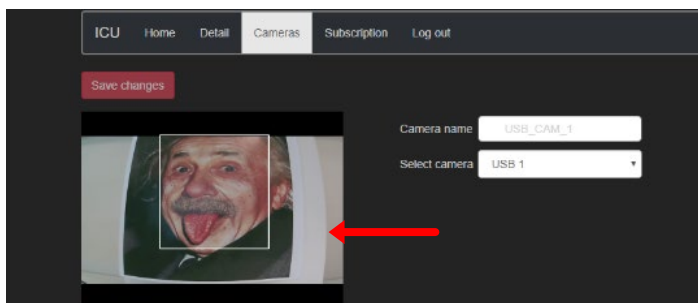
ICU Home Detail **Cameras** Subscription Log out

Save changes

Camera name USB_CAM_1

Select camera USB 1

5. Once connected you will see a live view from your camera



ICU Home Detail **Cameras** Subscription Log out

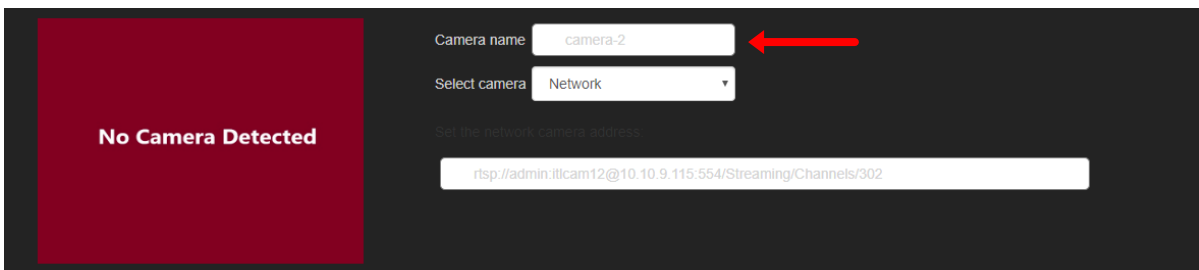
Save changes

Camera name USB_CAM_1

Select camera USB 1

IP Cameras

1. Enter Camera Name



No Camera Detected

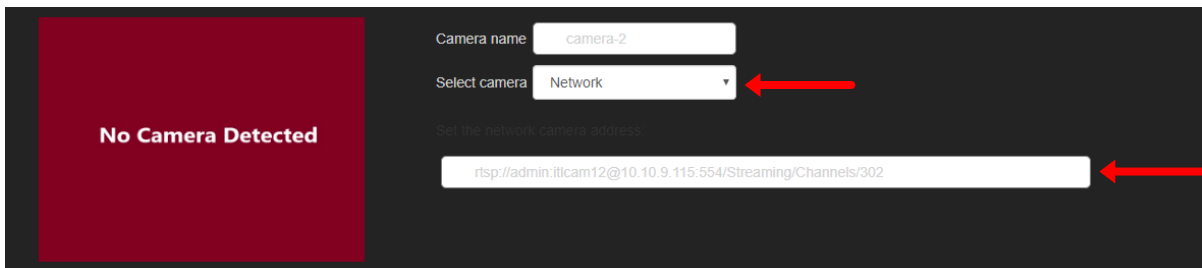
Camera name camera-2

Select camera Network

Get the network camera address

rtsp://admin:itlcam12@10.10.9.115:554/Streaming/Channels/302

2. Select Network



No Camera Detected

Camera name camera-2

Select camera Network

Get the network camera address

rtsp://admin:itlcam12@10.10.9.115:554/Streaming/Channels/302

3. Enter the network address of your IP camera

For the ICU we will use the **secondary stream** (sub-stream) from the camera.

The setup for this stream will be as follows.

Secondary camera stream setup.

- *Stream Type* Sub-stream
- *Video Type* Video stream
- *Resolution* 640*480
- *Bitrate Type* Variable
- *Video Quality* Medium
- *Frame Rate* Full frame rate
- *Max. Bitrate* 384
- *Video Encoding* h.264

To use a direct stream from the IP camera, the RSTP stream example will be in the format:

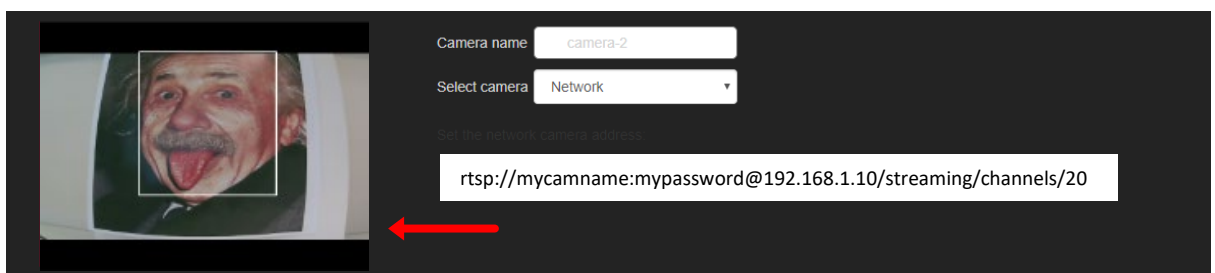
```
rtsp://**CAMERA USERNAME**.**CAMERA PASSWORD**@**CAMERA  
IP**.:554/Streaming/Channels/2
```

The /2 at the is so that we use the secondary stream.

To connect to the IP camera via a NVR (recorder), the RSTP stream example will in the format:

```
rtsp://**CAMERA USERNAME**.**CAMERA PASSWORD**@**CAMERA  
IP**.:554/Streaming/Channels/102
```

4. Once connected you will see a live view from your camera



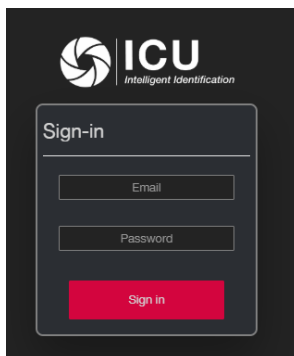
i You can connect 3 cameras per ICU device – this can be any combination of USB cameras and/or IP cameras

**Now you have registered your device and installed your cameras.
Next is to login to your on-line account and configure your unit.**

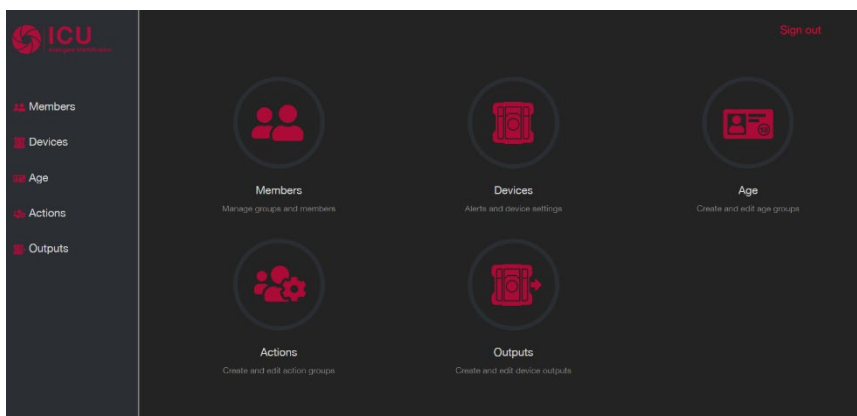
Configuring your device


1. Login to your on-line account to configure your unit(s)

 Web address: <https://icu.innovative-technology.com/>



2. Enter your email and password as provided by ITL – this will open your ICU dashboard

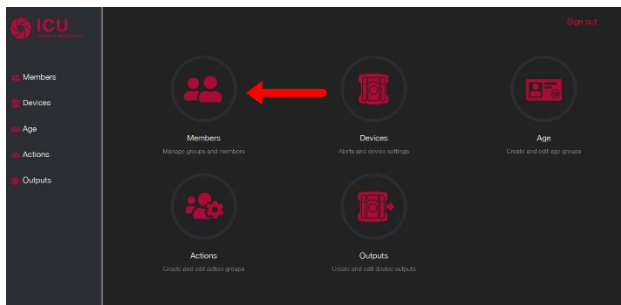


 Please ensure your ICU Device is connect to Network so any change can be synced with the Device

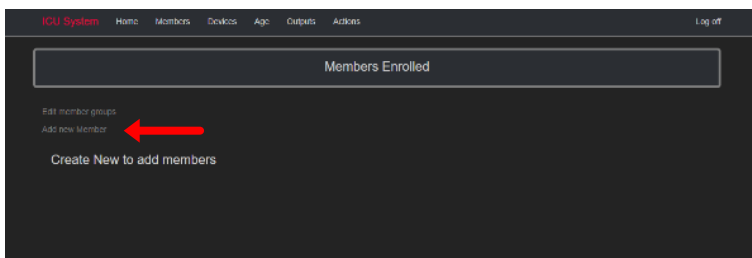
Adding Members

i Members are faces which can be added to your account. Once added to your account these Members will be shared with all ICU Devices registered with your account

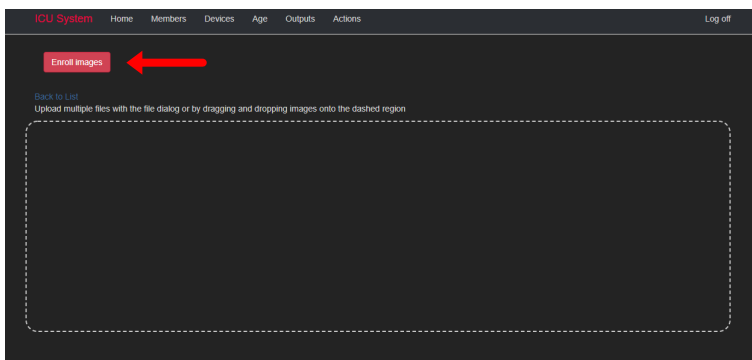
1. Click on Members



2. Click on Add New Member

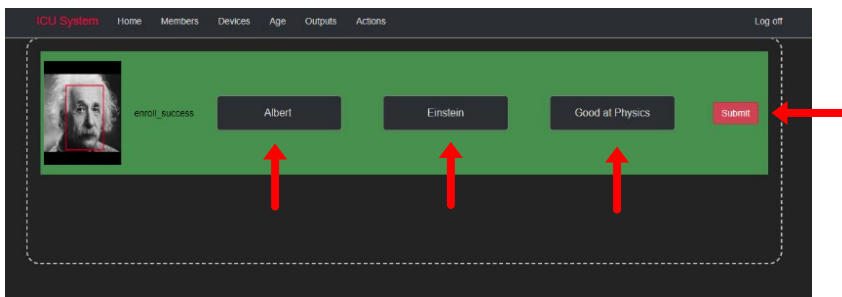


3. Click on Enroll Members to add each face
Simply drag and drop single or multiple image files



i Your images will be automatically checked and saved to optimal format

4. Enter the details for the member
Click on submit



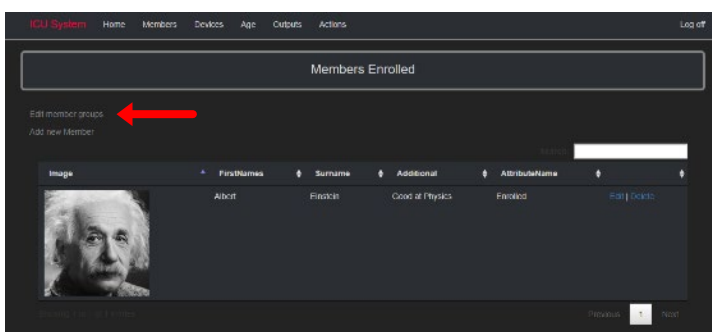
**You have now added member(s) to your account.
Next step is to create Groups and add members to specific Groups.**

Adding Groups

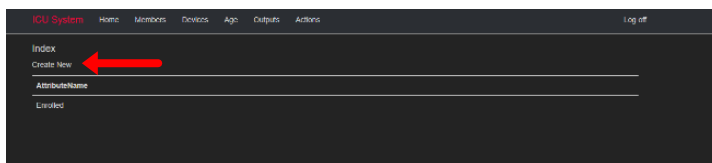
- i** Groups are a collection of Members. Once you have populated your Groups with your Members, specific Actions can be defined

Creating a Group

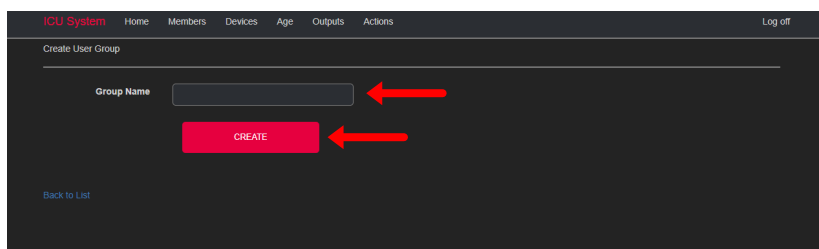
1. Click Edit Member Groups



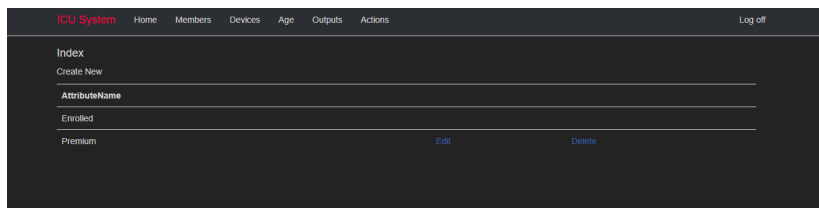
2. Click Create New



3. Enter Group Name
Click Create



All your created Groups will now appear in the table

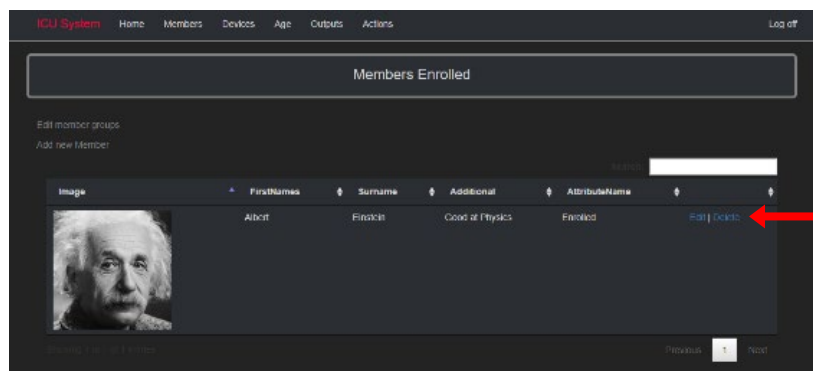


i You can define as many different Groups as you wish. These definitions will be shared with all Devices connected to your account

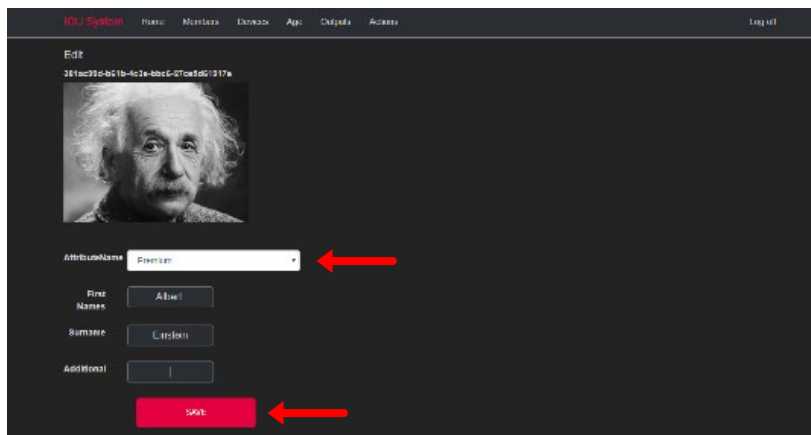
Adding Members to Groups

i The default group for any added Member is Enrolled. Any Member can be added to any created groups as follows:

1. Click on Members from the ICU Dashboard
Click Edit



- Any created Group will appear in the drop-down menu
Select the Group and click Save



That specific Member is now part of that specific Group.

Specific ICU Device Actions can now be setup to respond to the defined Groups.
First, you must define the Outputs for a Device.

Adding Outputs

i Outputs are how you want the ICU Device to respond when presented with a specific Group



Serial

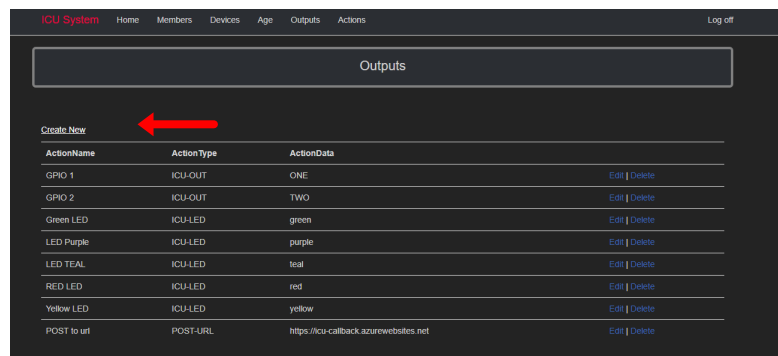
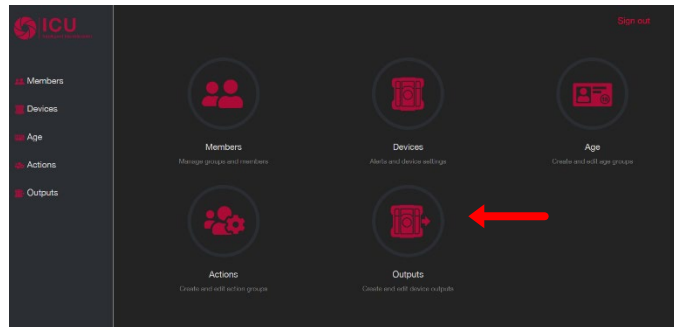
Control Outputs1/2

Post URL / Trigger ITL Smart relay

Output	Description
Control OUT 1	12 V pulse used as a trigger to external devices
Control OUT 2	
Serial	Comm port (SSP). Compatible with ITL note validators
Post URL	JSON post sent to specified URL
ITL-Relay	Trigger smart relay located on Network

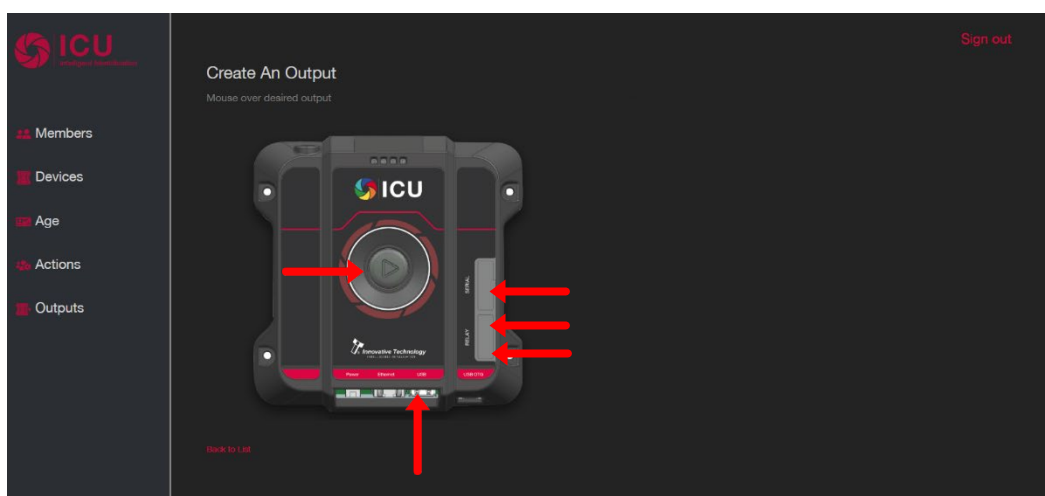
Creating an Output

1. Click Outputs from the main ICU Dashboard
 This will open a list of all created Outputs
 You can edit an existing Output or Create a New Output

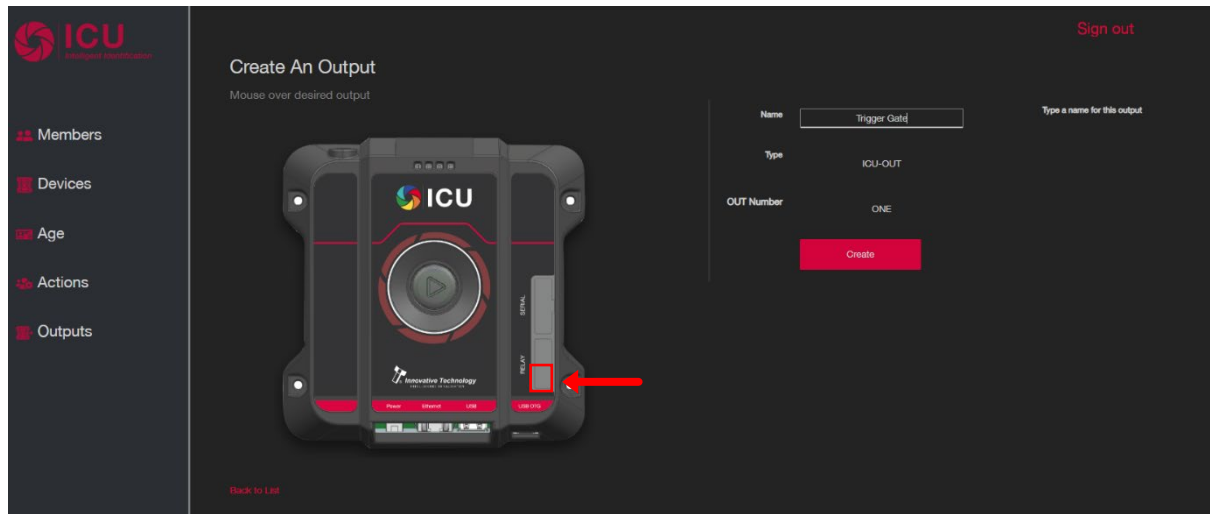


2. To create a new output
 Click on *Create New*

To select which output, click on the desired output on the ICU Device image

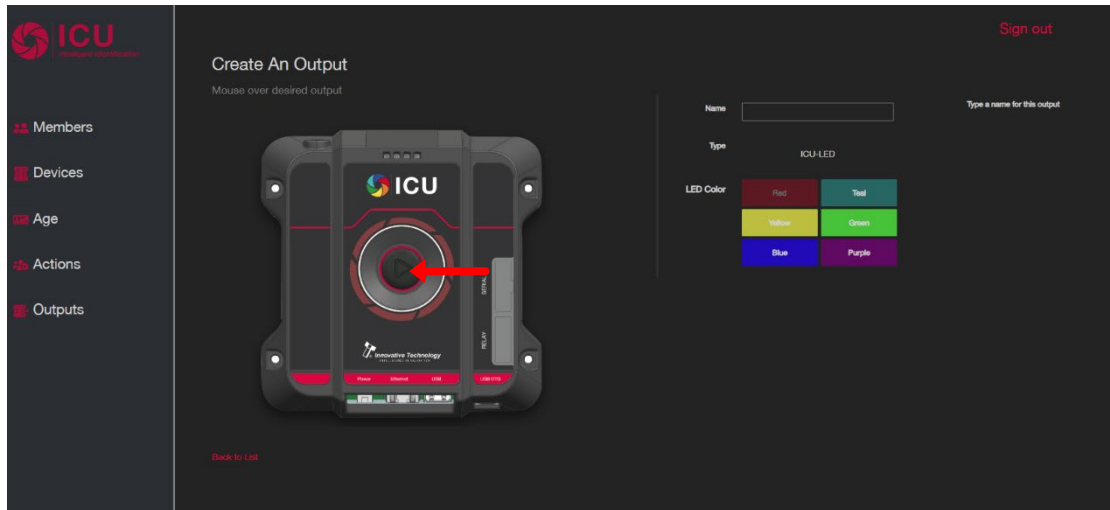


Example 1 : To define an output on ControlOUT ONE



Click on ControlOut One on the Device image
 This will open the adjustable parameters
 Chose a name for this output
 Click Save

Example 2 : To create a LED colour change



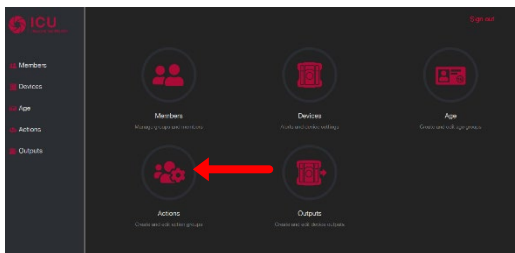
Click on LED on the Device image
 This will open the adjustable parameters
 Chose a name for this output
 Click the desired colour of the LED
 Click on Save

These new Outputs will now be added to the table of defined Outputs

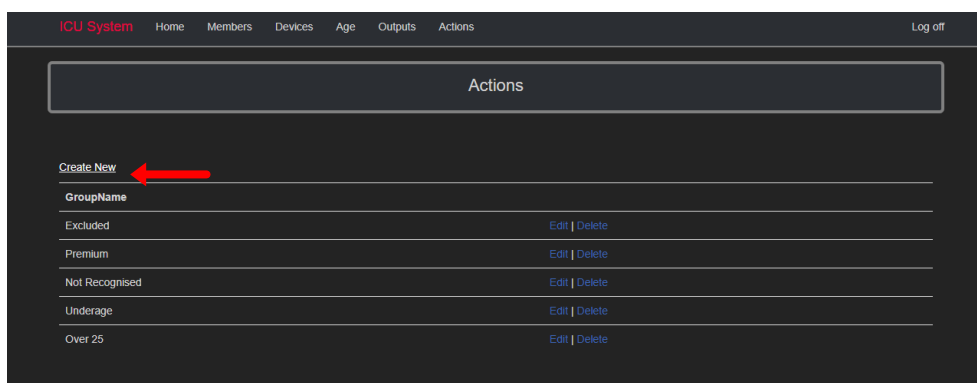
Adding Actions

i Actions are one or many Outputs you wish to perform in response to a Member of a specific Group

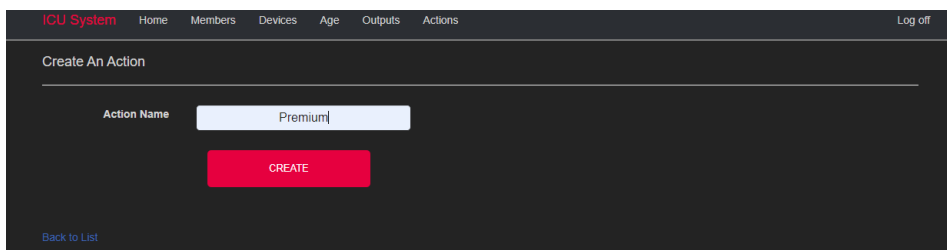
1. Click Actions from the main ICU Dashboard



2. This will open a list of all created Actions
You can edit an existing Action or Create a New Action
To create a new Action click Create New

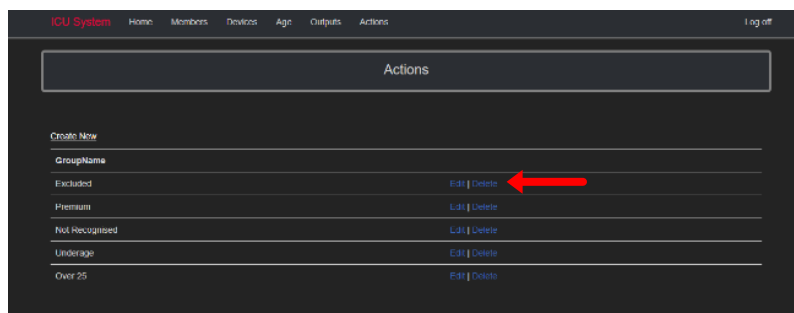


3. Enter the name of the Action and click Create

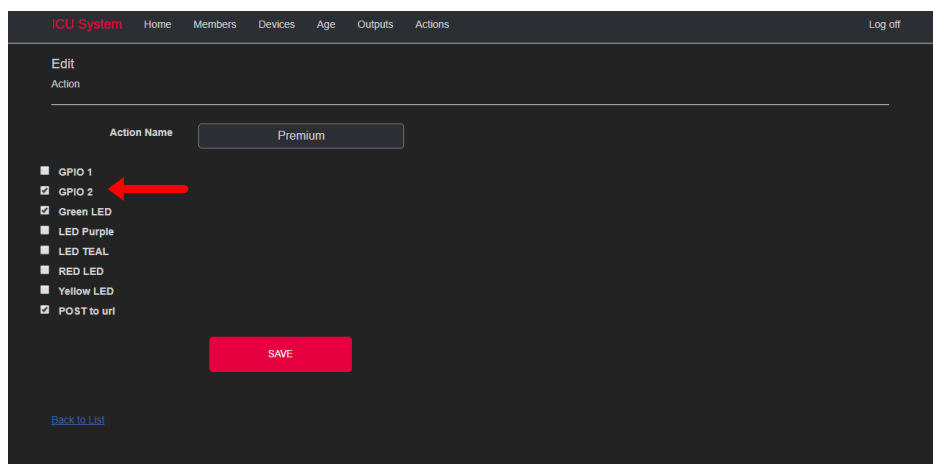


i You have now created a new Action. You can now edit this Action to add Outputs

4. Click Edit on a specific Action



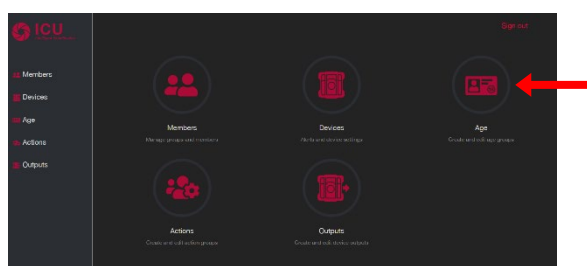
5. This will open all available Outputs to assign to the specific Action To assign an Action simply click the checkbox next to it



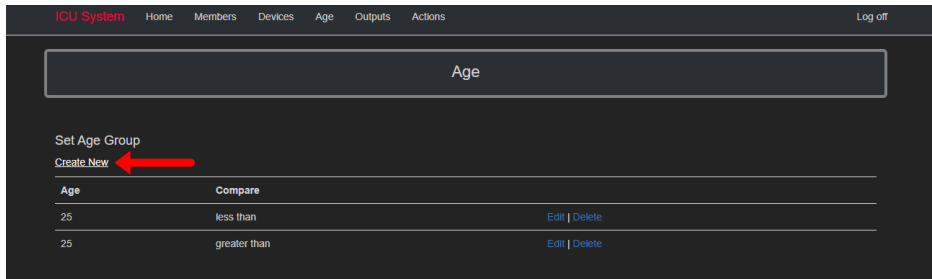
Adding an Age Action

i With ICU Face it is possible to return an age estimation. Some applications may require an Action depending on the age of the returned. This section will detail how to setup the age-related Actions

1. Click on Age from the main ICU Dashboard This will display any age specific Actions previously defined



2. Create a new Action by clicking Create New



ICU System Home Members Devices Age Outputs Actions Log off

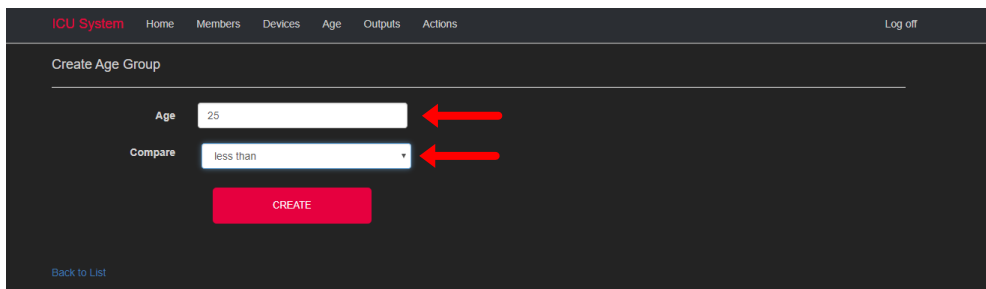
Age

Set Age Group

Create New

Age	Compare	
25	less than	Edit Delete
25	greater than	Edit Delete

3. Specify an age
Specify a comparison i.e. if Age < 25 etc.



ICU System Home Members Devices Age Outputs Actions Log off

Create Age Group

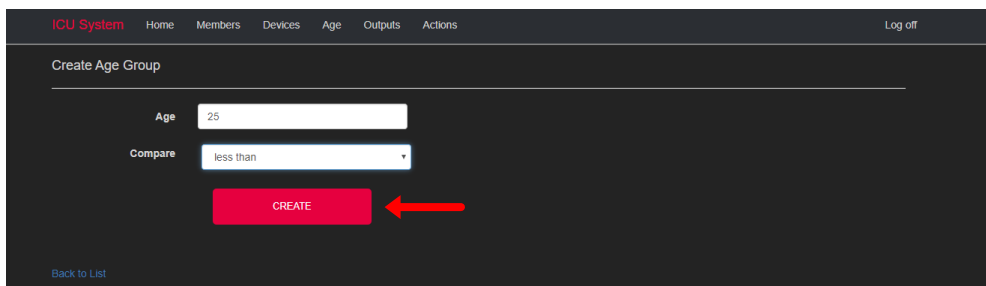
Age 25

Compare less than

CREATE

Back to List

4. Click on Create to add the new Age Action



ICU System Home Members Devices Age Outputs Actions Log off

Create Age Group

Age 25

Compare less than

CREATE

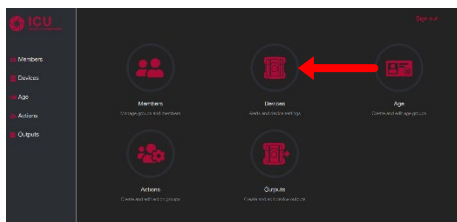
Back to List

The defined Actions can now be applied to a specific device.

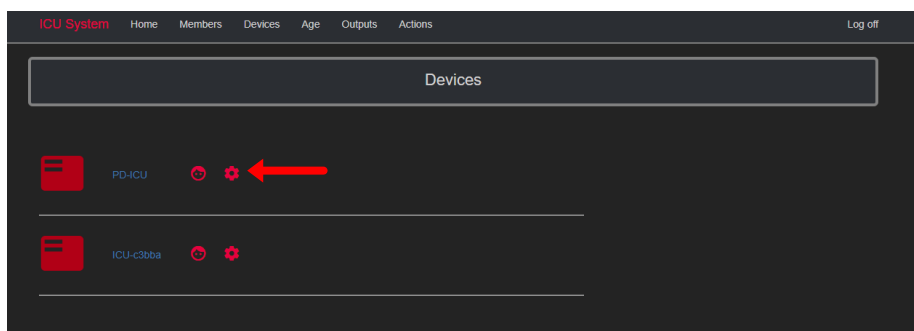
Applying Actions to specific devices

i This section will detail how you can configure specific ICU Devices to react to specific Member Groups

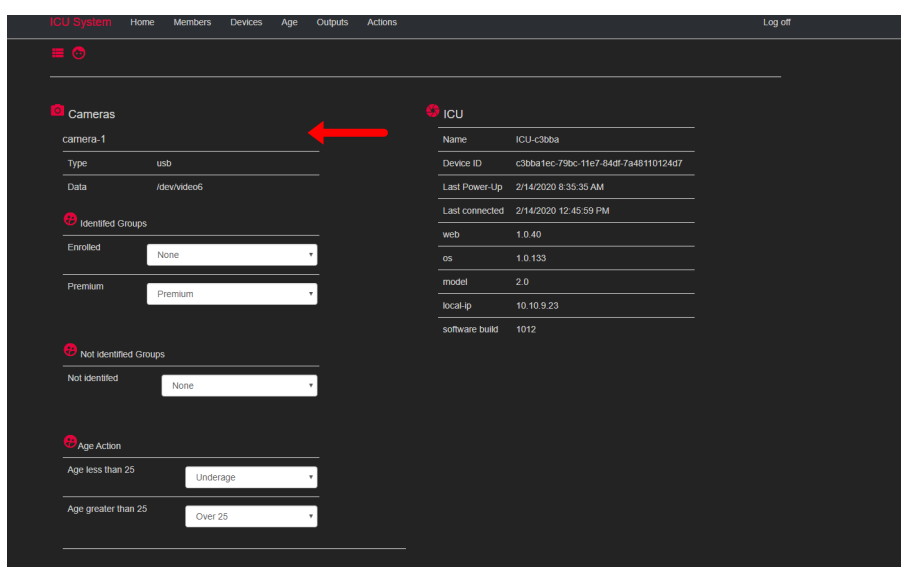
1. Click on Devices from the main ICU Dashboard
This will display all ICU Devices associated with your account



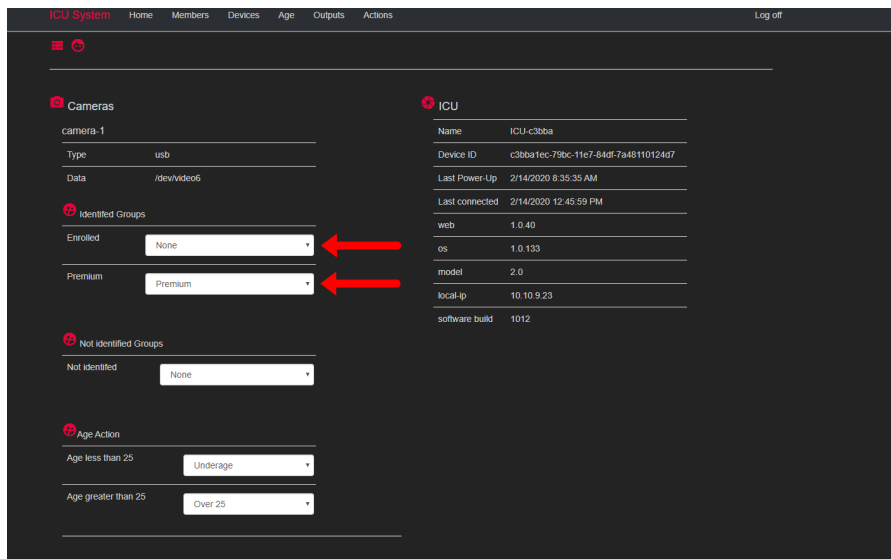
2. Click on the Settings icon to open information and configuration options for that Device



3. All Actions for specific cameras for that Device can be defined here



- Defined Groups will appear
Defined Actions can be assigned to specific Groups by the drop-down menu

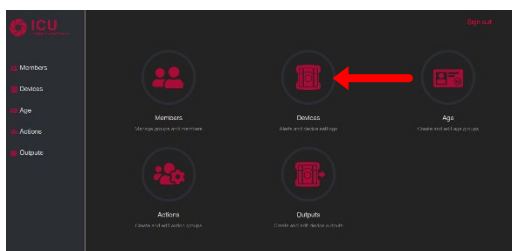


You have now configured your specific Device to react to faces presented to the attached cameras

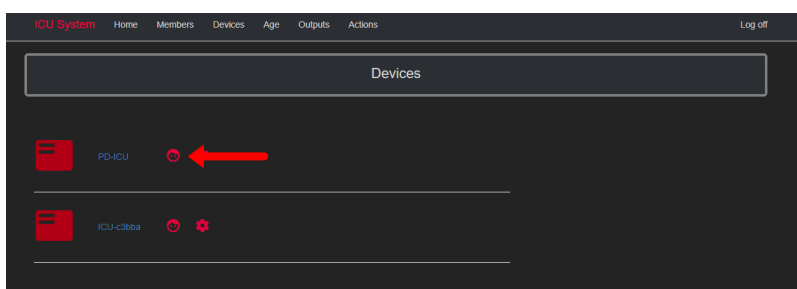
Testing your Device configuration

- i** To test your Device configuration, you can present a member to the camera

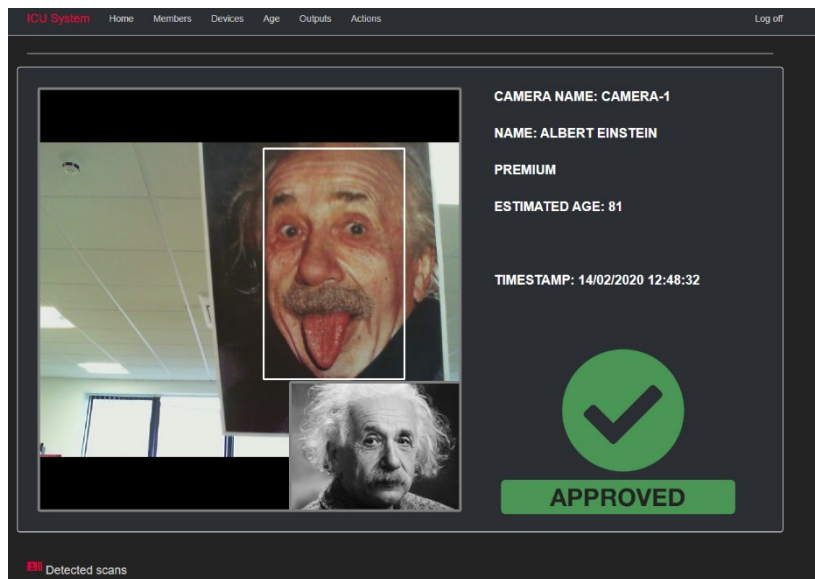
- Click on Devices from the main ICU Dashboard



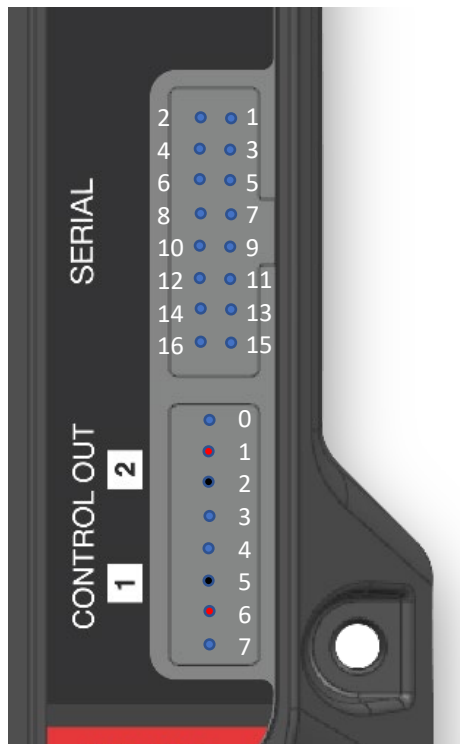
- Click on the Face icon to open the Alerts page



3. This opens a page where you can monitor recent activity on that camera



Device Interface Pins



Serial	
PIN 1	Serial Data Out (Tx)
PIN 5	Serial Data In (Rx)
PIN 11	USB Data +
PIN 12	USB Data -
PIN 13	USB Power (+5V)
PIN 15	+V
PIN 16	0V / GND

Control OUT		
ControlOUT 1	PIN 5	GND
	PIN 6	+12 V
ControlOUT 2	PIN 1	+12V
	PIN 2	GND

Example Faces

The following faces can be used to test the ICU Device.

Test Members are also added by default.

TEST FACES	
Member	Group
1. Obama Real	Premium
2. Obama Fake	Excluded
3. Einstein Real	Premium
4. Einstein Fake	Excluded
5. Underage 1	Under 25
6. Underage 2	Under 25





