

REALTi360

by iSimulate



User Guide

Version 8

TABLE of CONTENTS

1. REALITi Ecosystem System	5
Standard Kit:	5
CPR Kit (optional):	5
Video Kit (optional):	6
2. Getting Started	7
2.1 Create a Wi-Fi network	7
2.2. iPad «Controller» and iPad Pro «Monitor» connectivity	7
3. Update REALITi360	8
4. Operating REALITi Controller	9
4.1. Overview of the REALITi360 control screen	9
4.2. Basic functions	9
4.2.1. CARDIAC features	9
4.2.2. RESPIRATORY - EtCO ₂ features	10
4.2.3. ARTERIAL PRESSURE features	11
4.2.4. SpO ₂ features	11
4.3. Checklist–Sounds–Media–Labs features	11
4.3.1. Validation of expected actions (Checklist)	11
4.3.2. Sounds features	12
4.3.3. Media features	13
4.3.4. Lab features	13
4.4. CPR and Pacing features	14
4.4.1. Pacing features	14
4.4.2. CPR features	14
4.4.2.1. CPR without CPR sensor:	14
4.4.2.2. CPR with CPR sensor	15
4.4.2.3. Connecting the CPR sensor	15
4.4.2.4. Renaming the CPR sensor	15

4.4.2.5. Calibrating the CPR sensor	15
4.5. Lower function banner	16
4.5.1. Time	16
4.5.2. Alarm	16
4.5.3. Flag	16
4.5.4. Start/Stop/Pause	17
4.5.5. Virtual Time cursor	17
4.5.6. Trend function	17
4.5.7. Preview	17
4.6. Additional features	17
4.7. System features	18
4.7.1. Monitor features	18
4.7.2. Connections features	18
5. How to use 'Scenarios'	19
5.1. Scenarios creating	19
5.2. Deleting, copying and sharing scenarios	20
5.3. Importing a scenario	20
5.4. Importing a scenario by email	21
5.5. Importing a scenario by synchronization between iPads	21
5.6. How to use scenarios	21
5.6.1. Choosing a scenario (<i>on the iPad Controller</i>)	21
5.6.2. Navigation in a scenario	22
5.6.3. Scenario editing	22
6. Using the Debriefing Function	23
6.1. Overview of the results	23
6.2. Controlling video playback	23
6.3. Timeline	23
6.4. Review of expected actions	23

7. Use of the REALTi Chart	24
7.1. Documents viewing	24
8. Using the Video Function	25
8.1. Video kit installation	25
8.2. Apple™ TV installation	26
8.3. How to use the video function	26
8.3.1. Simulation recording	26
8.3.2. Liveview visualization of the simulation	26
8.3.3. Video debriefing of a simulation	27
9. Training Management System (TMS)	28
9.1. Scenarios	28
9.1.1. Deleting a scenario	28
9.1.2. Review of the report 'iSimulate TMS'	28
9.1.3. PDF simulation report	30
9.2. Student management	30
9.3. Launchpad	30
9.4. Options	31
10. User license Updating	32
10.1. Access the Community	32
10.2. Activation of a license	32
10.3. License release	33
10.4. Exiting Community	33
11. Advanced Settings	34
11.1. Advanced settings of iPad Controller, of iPad Video and iPad Chart	34
11.2. iPad Monitor advanced settings	34
11.2.1. General settings of the iPad Monitor	35
11.2.2. Specific settings to the different Premium screens	35



[More User Guides](https://www.youtube.com/channel/UC7hV73Qy8HQe6VOFYiu6Wxw)

<https://www.youtube.com/channel/UC7hV73Qy8HQe6VOFYiu6Wxw>

1. REALITi Ecosystem System

The REALITi package consists of a standard kit and optional modules.

Standard Kit:

- 1 x iPad 9.7" or 10.2" → **controller**
- 1 x iPad Pro 12.9" inch → **monitor**
- 1 x iSimulate™ Case
- 1 x Set of cables and adult electrodes
 - o 1 x 12 Lead ECG Trunk Cable
 - o 1x 3 lead ECG cable
 - o 1 x7 lead ECG cable for 12-lead ECG
 - o 1 x S_pO₂ sensor
 - o 1 x Blood pressure cuff
 - o 1 x EtCO₂ sensor
 - o 1 x defibrillation pads
 - o 1 x bag self-adhesive ECG electrodes
- 1 x Wi-Fi router and its power supply
- 1 x protective shell with 360° swivel for the iPad controller
- 1 x external battery
- Chargers and cables for iPads



- 1 x protective cover or carry bag

CPR Kit (optional):

- 2 x CPR Sensor
- 2 x USB charging cables
- 3 x devices for sensor integration
 - o 1 x CPR Pad
 - o 2 x wrist bracelets
 - o 1 x support bracket to be fixed in the manikin
- 1 x storage and protection case



Video Kit (optional):

- 1 x iPad 9.7" or 10.2" → **Camera**
- 1 x Protective cover Padcaster™
- 1 x wide-angle lens to screw onto the Padcaster™ frame
- 1 x Active unidirectional microphone to be screwed on Padcaster™ frame
- Charger and cables
- 1 x Apple™ TV
- 1 x HDMI cable
- 1 x Tripod
- 1 x External battery
- 1 x Backpack (Optional)



2. Getting Started

2.1 Create a Wi-Fi network

When the REALTi Kit is shipped, the iPads and the Wi-Fi router are configured.

- Turn the Wi-Fi router ON using the supplied AC adapter or, using the external battery with a USB cable → USB-C.

IMPORTANT

Use an external battery with a high power port otherwise the router will indicate 'Adapter Error'.

- Wait until the router emits an audible signal and «*Plug in cable*» is displayed





This message «*Plug in cable*» is normal when not connect to the Internet. The router is functional and does not require an Internet connection to work! You can now use your REALTi kit.

2.2. iPad «Controller» and iPad Pro «Monitor» connectivity

- Once the Wi-Fi network is activated, turn the 2 iPads ON and they will automatically connect to the Wi-Fi

- On the iPad «*Controller*», start the REALTi application  and select the «*Control*»  function

- On the iPad Pro «*Monitor*», start the REALTi application  and select the «*Staging*» function 

- On the iPad «*Controller*»,  press at the bottom of the screen

- In the window that appears, select the corresponding REALTi monitor to your REALTi ecosystem. If the monitor doesn't appear in the list, check that the iPad controller and iPad monitor are both connected to the Wi-Fi network of your REALTi router (both iPads must be on the same Wi-Fi network)

- After selecting the monitor «*REALTi NAME*»  on the iPad controller, it will automatically switch to the scenario selection page.




When configuring your kit before shipping, we assign a color for each of your kits with a luggage tag.

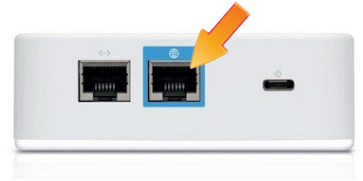


The most common cause of connection difficulty is often due to the fact that you have connected the iPads to different Wi-Fi networks. Ensure that both iPads are on the same network. However, if you want to temporarily connect the iPad to an external Wi-Fi network, remember to «forget» the connection after use. To do this; iPad Settings → Wi-Fi settings → Connection name → Forget

3. Update REALTi360

In order to improve the functionality and user experience, the REALTi application is regularly updated. At regular intervals, you will receive a message inviting you to update. In addition, you will receive an email from us at each major update.

- Connect to a Wi-Fi with Internet access or connect the Wi-Fi router to your Internet box with an Ethernet cable (RJ45) Connect the Ethernet cable on the blue RJ45 port of the Wi-Fi router and the other end at the exit of your Internet box
- Open the Apple Store App  on the iPad **controller** and go to the tab 'Updates' in the lower part of the screen
- If an update is available, it will be displayed in the list of applications to be updated
- After the update, quit the App Store and open the REALTi360 application



When downloading the REALTi application, you may need to enter the password linked to youraccount@icloud.com account that was provided to you at the purchase.


- Ensure that you forget the network you have used to update and switch back to the default network
- Perform this operation for all iPads in your REALTi360 kit.



We recommend that the password is changed according to the policies of your organization.

4. Operating REALITi Controller

The REALITi360 ecosystem control is performed entirely on the iPad controller. It's essential that the iPad **controller** and iPad **monitor** are connected to the same Wi-Fi network.

To start the scenario you need to press the flashing  button

4.1. Overview of the REALITi360 control screen

The REALITi application control interface is divided into 5 main sections:





- **Section 1:** Loading and scenario management
- **Section 2:** Control of physiological parameters, and SpO₂, EtCO₂ waveform, invasive blood pressure
- **Section 3:** Expected actions, images, ECG, sounds and biological analysis
- **Section 4:** CPR and Pacing management
- **Section 5:** Lower function banner.

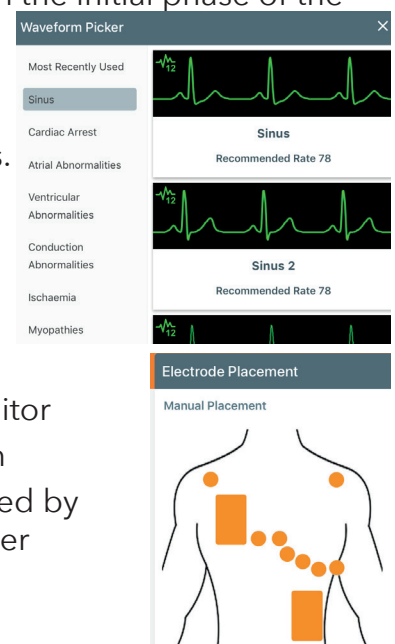


4.2. Basic functions

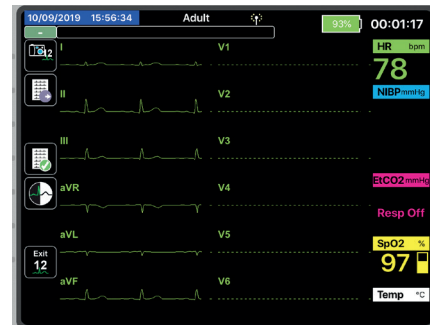
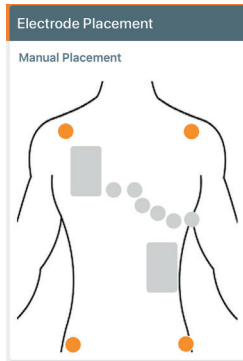
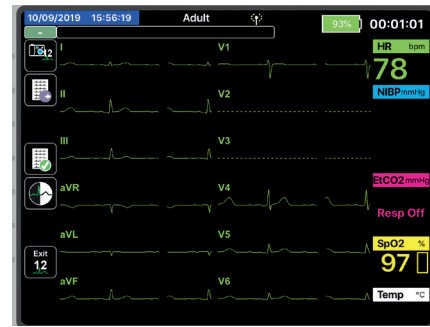
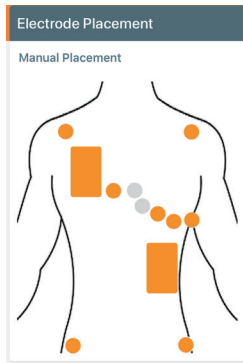
The basic functions allow to modify the vital parameters, the appearance of ECG traces, SpO₂, EtCO₂ and blood pressure waveform. The basic functions are grouped in Part 2 of the controller's home screen.

4.2.1. CARDIAC features

- **Change the frequency:** turn the selector wheel and confirm by pressing  (at the bottom right of the screen)
- **Show / hide:** it's possible to hide all cardiac parameters by pressing . This function allows you to simulate the connection of cables and sensors in the initial phase of the simulation
- **Choose the type of tracing:** touch the waveform image in the black center part of the rotary wheel to display the waveform picker. On the left side, you will find the types of ECG tracings. Simply select the desired category and transmit it to the monitor using .
- Select variations
 - o Press 12 Lead icon  to display the waveform picker selection screen
 - o Select the waveform type you want to display on the monitor
 - o On the iPad Monitor, enable the 12-channel ECG function
 - o You also have the option of selecting which leads displayed by selecting the desired lead placement on the iPad controller



The 12-lead ECG function is only available on monitors that have 12-lead capability.

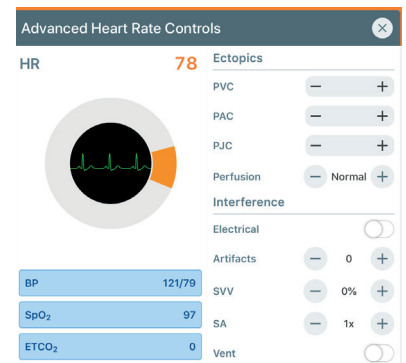


- Advanced options of the cardiac section:

- o To access the advanced cardiac features, press against the rotary selector wheel for cardiac function.








In the window that appears you can:

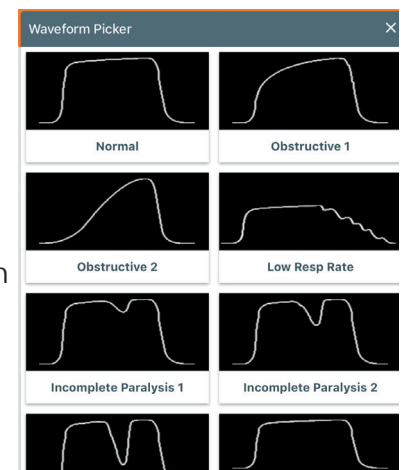
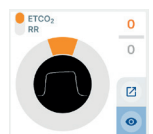
- Add PVC's
- Add PAC's
- Adding PJC's
- Add electrical interference
- Add artifacts
- Add Sinus Arrhythmia (SA)
- Dampen the plethysmography curve
- Vary the Stroke Volume Variation (SVV)
- Synchronizing the QRS with ventilation (Vent)




4.2.2. RESPIRATORY - EtCO₂ features

The EtCO₂ selector, will change the parameters of the respiratory rate or the EtCO₂ value.



- **Change the breathing rate:** Set the switch to RR and then turn the selector wheel to the required value. Confirm by  pressing
- **Show / hide the curve on the monitor:** press 
- **Change the value of EtCO₂:** Set the switch  to EtCO₂ and then turn the rotary wheel to desired  value. Confirm by pressing
- **Choose  the EtCO₂ curve:** touch the black center part of the rotary selector to display the window allowing you to choose the curve and select it. Press to transmit the waveform on the monitor 
- **Advanced options of the 'Respiratory' section:** Press to display the window of the respiratory function. 







In this window, you can:

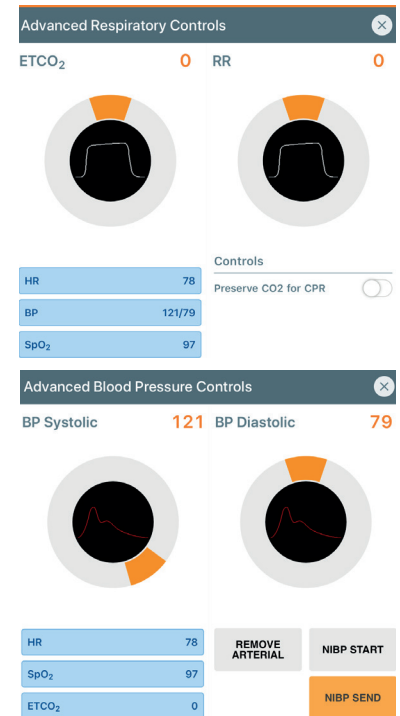
- Preserve the EtCO₂ value during CPR:
 - o Using the switch 

4.2.3. ARTERIAL PRESSURE features




- Change blood pressure: turn the rotary selector and confirm by pressing 
- Advanced options of the section 'Blood pressure': Press  in the blood pressure section

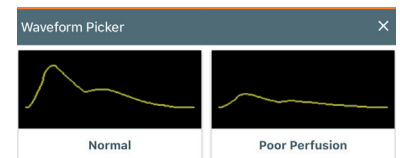
In the window that appears you can:

- **Modify the value of the Systolic Blood Pressure**
- **Modify the value of the Diastolic Blood Pressure**
 - o Immediately send to the monitor by pressing 
- **Start the measurement on the monitor:** Press 
- **To display the invasive PA curve,** press Insert Arterial.  Once the arterial waveform is displayed, you will be able to modify the appearance of the waveform by pressing in the center of the rotary wheel to select the desired Invasive Blood Pressure
- **Validate your selection by pressing** 



4.2.4. SpO₂ features

- **Modify SpO₂:** turn the wheel then validate by pressing 
- **Show / hide:** it's possible to hide the value and the SpO₂ curve by pressing . This function simulates the connection of cables and sensors in the initial phase of the simulation
- **Choose the SpO₂ curve:** touch the black center part of the rotary selector to display the window allowing you to choose the curve and select it. Press  to transmit the waveform on the monitor



4.3. Checklist–Sounds–Media–Labs features

This tab allows you to access a number of functions:




- Validation of expected actions (Checklist)
- Monitor sound adjustment, audio and auscultatory sounds
- Media
 - o X-ray images, CT Scan
 - o User images
- Biological analyses (labs)

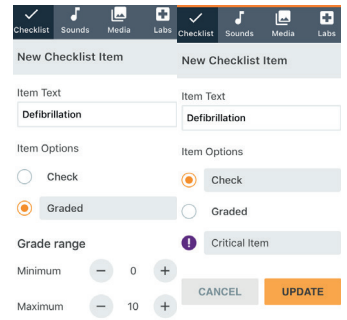
4.3.1. Validation of expected actions (Checklist)

With this feature, during the simulation, you will be able to validate the actions or performance of your students using the items that you have programmed into your scenario. Different evaluation are possible:

- ➔ Yes/No validation (performed or not performed)
- ➔ Score evaluation 0-10 (user set)



Create an evaluation item:

- In the 'Checklist' tab, press  and then 
- Name the expected action in the 'Item text' box, e.g. Defibrillation
- Set the type of action expected:
 - o **Check:** Validation by Yes or No
 - o **Graded:** Give a rating between 0-10
- Once the criteria has been created, press **UPDATE** and create an additional criteria by pressing 






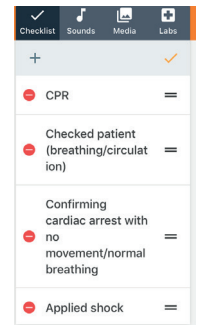
*In the case of a Yes or No validation, you can indicate that it is a critical action
In the case of a qualitative validation, you can define the minimum and maximum grade range*

Organize the evaluation item:

- In the list of expected actions, you can move the items by pressing  and while maintaining the pressure, slide the criteria up or down in to the desired order.
- Confirm the movements by pressing 

Delete a evaluation item:

- Switch to 'edit' mode 
- Press the delete icon  to deleted
- Exit the 'edit' mode by pressing 

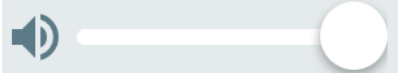





4.3.2. Sounds features



In this tab, you can adjust (or mute) the volume of the monitor alarms and the heartbeat tone. In addition, you will also have access to a large sound bank.

Management of the monitor volume:

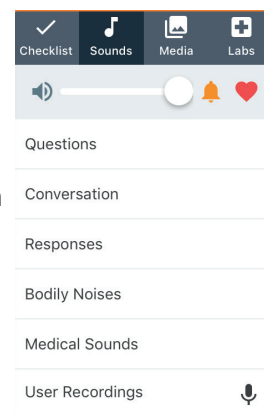
- To change the monitor volume, slide the cursor across 
- Mute all sounds on the monitor: press 
- Mute alarms on the monitor: press 
- Mute the sound of the heartbeat on the monitor: press 







In addition to the sound adjustment through the REALiTi360 application, the monitor's sound intensity is directly related to the sound adjustment of the monitor's iPad Pro. If there is no sound, check that the iPad is not in silent mode

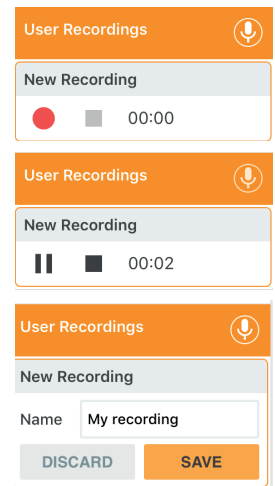
Access the sound library:

- In the 'Sounds' tab, select the sound category wish to use:
 - o Questions - Collection of pre-recorded questions. You can choose between the voices of men, women or children
 - o Conversations - Collection of pre-recorded conversations. You can choose between the voices of men, women or children
 - o Responses - Collection of pre-recorded answers. You can choose between the voices of men, women or children
 - o Bodily Noises - Collection of pre-recorded body sounds. You can choose between the voices of men, women or children
 - o Medical Sounds - Collection of pre-recorded physiological sounds.
 - o Users Recordings - Personal collection of sounds, sentences or sound effects.




Personal recording sounds:

- On the line, press the user recording button
- The registration window appears
- To start recording press 
- To end the recording, press 
- To pause press 
- After completing the recording, a window opens to name and save the recording. Press 
- The recording appears in the personal record window



Playing and erasing personal sounds:

- In the personal recordings window, press for sound playback and for sound replay
- To delete a sound, press 




The sound playback is done through the speaker of the iPad control. It's possible to connect the iPad Controller to the audio system of your training environment or to an external audio system.


4.3.3. Media features

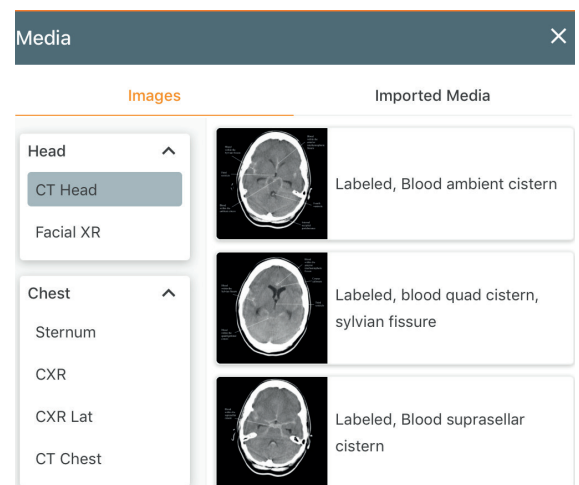
This section allows you to send radiological images (CT, X-rays, Ultra Sound) to the iPad pro 'monitor'. If you use the 'Chart iPad', the images will be, in simultaneously, transmitted to constitute a 'clinical information system' of the patient.

To add items to your scenario:

- Press the edit icon 
- The media selection window appears
- Select the category ;
 - o Images
 - o Imported Media


Importing radiological views:

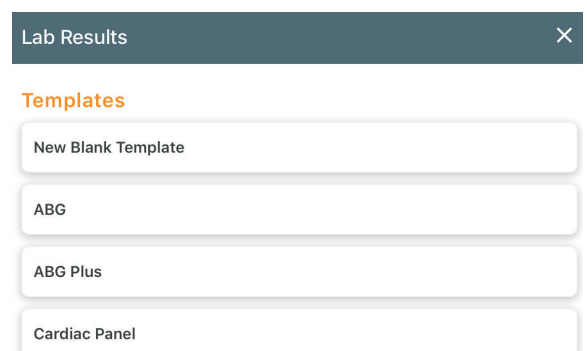
- Select the desired category
- Choose the desired picture
- The image appears in the right part of the window;
- Confirm the selection by pressing 
- In order to transmit the image to the simulation monitor, check the Show on Monitor switch is selected
- Click on the image thumbnail to show on monitor
- To delete an picture, press and then delete icon on the left of the picture to be deleted. The deletion will be done when the action is confirmed






4.3.4. Lab features

Importing biological results:

- Go to the 'Labs' tab
- Click on  and the following window appears
- Select the type of biological analysis you want
- The window for setting the values is displayed



- Adjust the values using and + and -
- Once all the parameters have been adjusted, confirm by pressing **UPDATE**
- The list of biological tests is updated
- Exit the 'edit' mode by pressing the icon 
- In order to transmit the biological results to the iPad Chart, press ➤
- To delete a biological analysis, press  and then on the left of the image to be deleted. Confirm deletion 




To use the function 'Labs - Biological Results' requires a additional iPad to be used as the «Patient Information System - Chart». See Section 7.

4.4. CPR and Pacing features








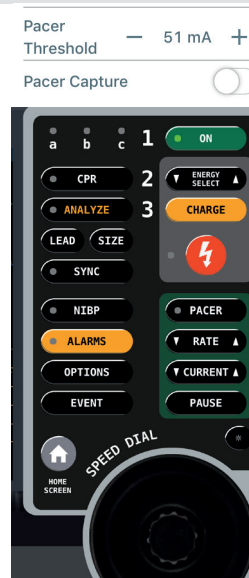
Depending on options chosen when purchased, you will be able to access different screen appearances. For this example, we will choose the display of LP15

4.4.1. Pacing features

- In the CPR window, press  to display the 'Pacing' menu.
- Adjust the intensity of the pacing attachment using the + and -

On the monitor

- Press  and the rate selection window appears
- Select the frequency using the rotary wheel and confirm by pressing the center of the rotary selector  or by using the rate button
- Press  and gradually increase the intensity by turning the wheel clockwise. Confirm by pressing the center of the rotary selector 
- You can pause the pacing at any time by pressing 



4.4.2. CPR features







2 options are possible:

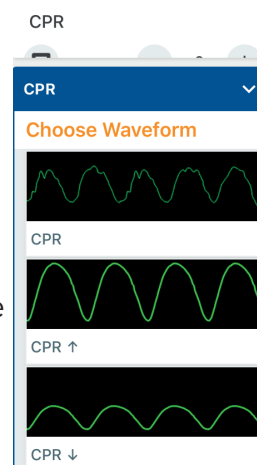
- CPR without the CPR Sensor
- CPR with the CPR Sensor



When CPR is activated, the physiological parameters (SpO₂, blood pressure, EtCO₂) are set to zero

4.4.2.1. CPR without CPR sensor:

- When students begin CPR, press , the icon will change to Red 
- On the iPad Monitor appears the cardiac trace corresponding to the CPR selected
- On the iPad controller, it's possible to modify the plot of the external cardiac massage by pressing on the **Choose Waveform** window
- It is also possible to preserve the display of the EtCO₂ by selecting the option in the advanced settings  (section 4.2.2.2)
- When students stop CPR, press  to display the underlying ECG.





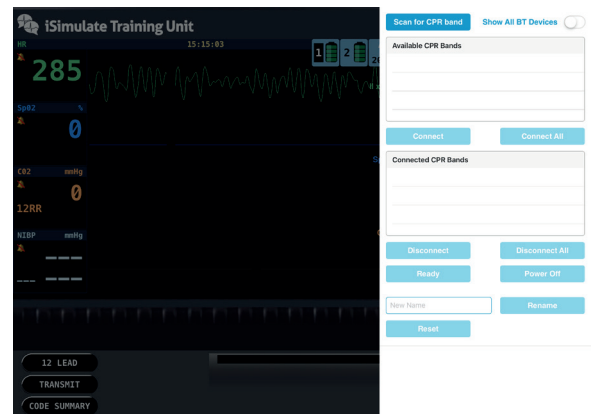
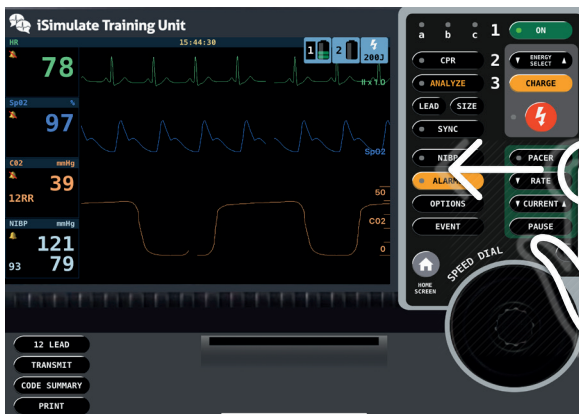
On the some monitors such as 'ZOLL X Series', the screen can display the filtered cardiac trace (see through CPR).

4.4.2.2. CPR with CPR sensor

4.4.2.3. Connecting the CPR sensor



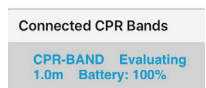
- Switch ON the CPR device by pressing the side button
- On the iPad Monitor, swipe from the right edge of the iPad to the left to display the sensor connection window



Press **Scan for CPR band** and the available CPR sensor(s) appear in the list.

- o All Sensors must begin with **"CPR"** to be visible. If the CPR Band is not visible, Select **Show All BT Devices**

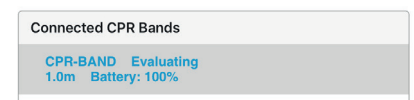
- Select the sensor you want to use and press **Connect**
- The connection is confirmed when the sensor appears in the tab 'Connected CPR Bands'
- You will also see the connection confirmed on the Controller **CPR - Band Connected**
- Remove the CPR sensor connection window by pressing anywhere outside the CPR Connection Window



4.4.2.4. Renaming the CPR sensor

When using multiple CPR Bands it is good practice to name them all with different color, such as CPR - Blue, Red and so on. the CPR Band should always start with **"CPR"** to be visible.

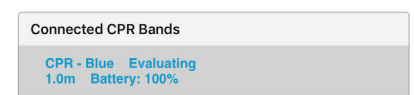
- Connect the CPR Band that you wish to name
- Press over the CPR Band that you wish to re-name
- Enter the new name
- Press **Rename**
- The new name will be applied.



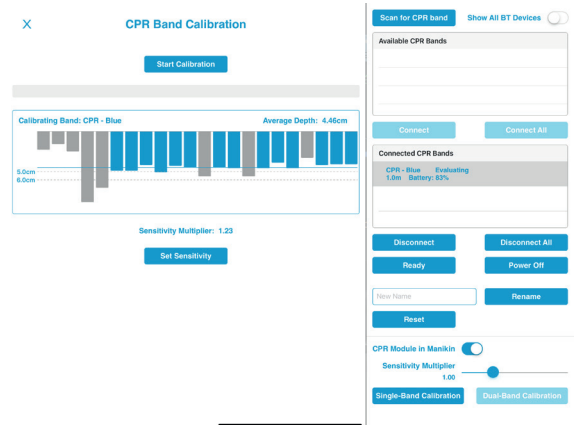
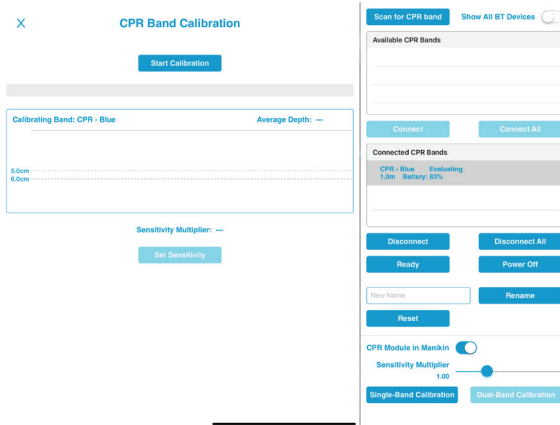
4.4.2.5. Calibrating the CPR sensor

When using the CPR Sensor inside a Manikin, you may to calibrate the CPR Sensor to allow for chest variance.

- Connect the CPR Band that you wish to calibrate
- Press over the CPR Band that you wish to calibrate
- Select **CPR Module in Manikin**
- This will show the Calibration Screen



- You can calibrate with one sensor or two
- Single Band Calibration
 - o Place the mounting bracket inside the manikin as close to the center of the chest
 - o Place the CPR Sensor in the bracket
 - o Prepare manikin for CPR
 - o Press **Single-Band Calibration**



- o Press **Start Calibration**
- o Compress on the manikin chest the recommended depth
- o When complete, press **Set Sensitivity**
- Dual-Band Calibration
 - o One sensor is placed in the manikin
 - o Second sensor is placed in CPR Pad
 - o Select **Dual-Band Calibration**
 - o Follow process as above



4.5. Lower function banner



4.5.1. Time



This is a chronograph that tells you how long you have been running the scenario. The chronometer resets to zero when you stop the scenario.

4.5.2. Alarm

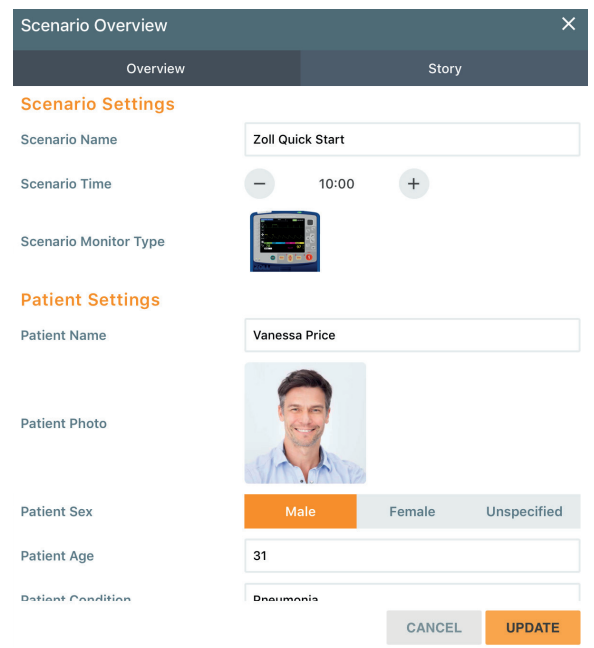


This is a timer that counts down the time allocated for the scenario. The time allocated is defined when creating the scenario (see Chapter 5.1) or can be adjusted by pressing at the top of the screen. Confirm your choice by pressing **UPDATE**.



4.5.3. Flag

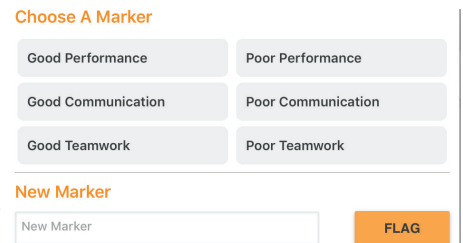


This function allows you to mark an event during the scenario. You have the option of using a pre-recorded comment or integrating free text.



To mark an event:

- Press 
- The Choose a Marker window appears
- Select the appropriate marker
- Include free text in the New Marker text box and press to add 



4.5.4. Start/Stop/Pause

Allows to start, stop and pause the scenario.


4.5.5. Virtual Time cursor

With this slider, you can advance time in the scenario. Trends and time will also be deducted in 'Alarm'. This function can, for example, be used when in a scenario you want to count down time if the student verbalizes a time-consuming action without being able to perform it.

4.5.6. Trend function

This function allows you to trend the change of a physiological parameter over time.

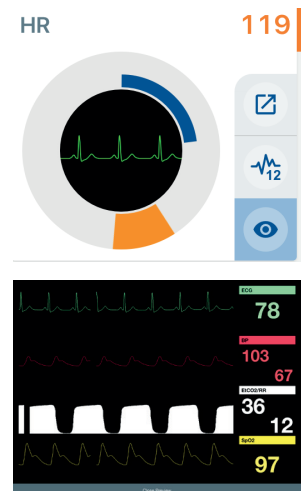
To use this function:

- Select the desired time using the sliders . Delay range between 10 seconds and 15 minutes.
- Modify the desired physiological parameter(s)
- Press  to activate trend

A blue marker will start scrolling in the window of the chosen physiological parameter and you will be able to follow the progress of the trend.

4.5.7. Preview

This function allows to have a simplified preview of the patient monitor on the iPad controller (the appearance of this preview screen cannot be changed). By pressing the following screen will appear.



To return to the main REALITi screen, press .

4.6. Additional features

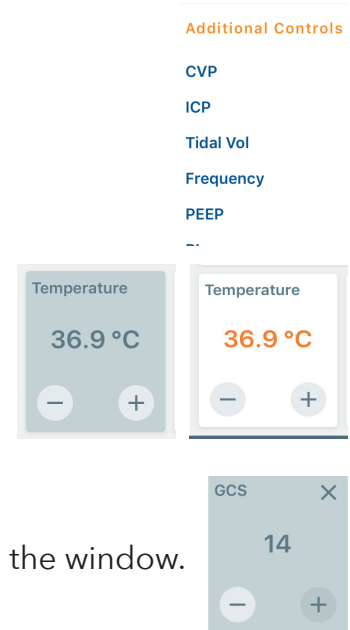
It's possible to display additional physiological values.

By default, the temperature option is preset on the controller display.

To display the parameter, simply press it. The grayed out window turns white and the setting is displayed on the monitor.

To program an additional parameter;

- Select an empty location
- A window showing available parameters is displayed
- Once the desired parameter has been selected, it is displayed in the window. You can change it using the keys and
- To display the parameter, simply press it.



To delete a parameter, press **X** in the desired window.



Additional parameters display is not possible (or possible in part) in all premium screens. The standard iSimulate ALSi screen allows all parameters to be displayed.



4.7. System features

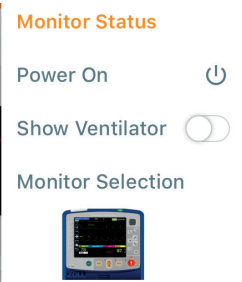


4.7.1. Monitor features



This menu allows;

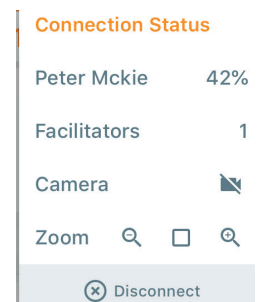
- Start the monitor (if student does not do so). To do this, press  and then in the menu that appears, press **Power On** 
- Change the appearance of the screen press the **Monitor Selection** icon. The screens included in your bundle appear
- Select your desired monitor.



4.7.2. Connections features




- Displays the % battery of the iPad monitor
- Indicates the number of control iPads connected to the monitor
- Indicates the charge level of the iPad Camera.
- Activates or deactivates the recording function of the iPad Camera.
- Allows you to adjust the digital zoom level of the iPad Camera



5. How to use 'Scenarios'

5.1. Scenarios creating

Scenarios are created, modified, sent and deleted from the iPad Controller.

- On the main screen, press the "Hamburger Icon"  at the top left of the screen to display the available menu:

- Select 'New Scenario' then press to complete:

- o The name of the scenario
- o The duration of the scenario
- o The appearance of the monitor
- o Patient's name
- o Image of patient from library
- o Patient's gender
- o Age
- o General condition
- o Date of admission
- o Duration of hospitalization



- Press **UPDATE** to save this step

- Now add (as per 4.3):

- o Your checklist
- o Required media
- o Labs

Start programming the first step of the scenario:

- After pressing  you can create:

- o An action step 
- o A text step 

Text step:

- Press  and the New Text Box window appears:

- Enter the desired text in the 'Text' window

- If you want to display the text on the iPad monitor, press 

- Press  to display full screen text on the iPad Monitor

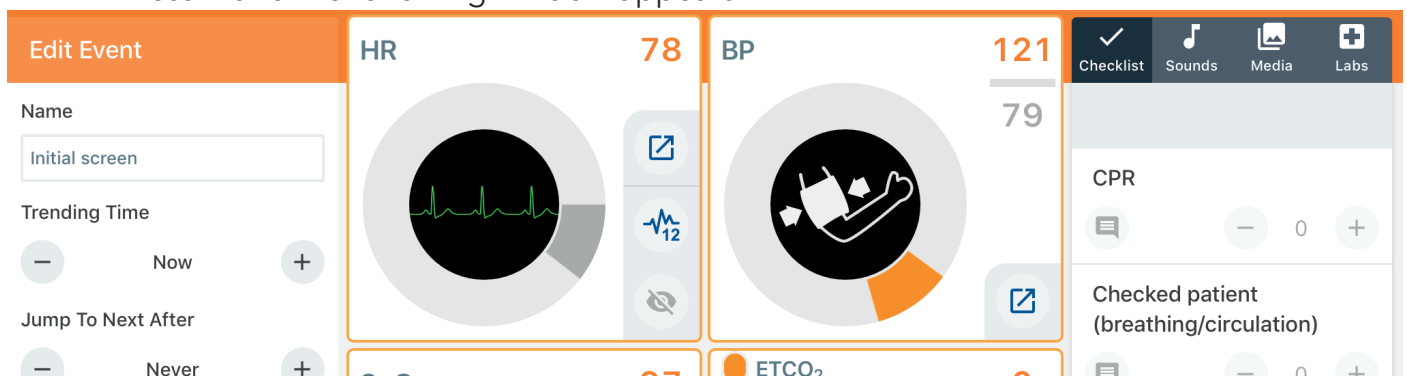
- Choose how long you want to keep the message displayed on the iPad Monitor screen

- You can set the transition to the next step by selecting the length of time the message will be displayed on the iPad Monitor

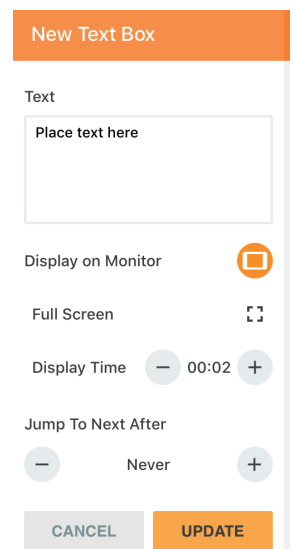
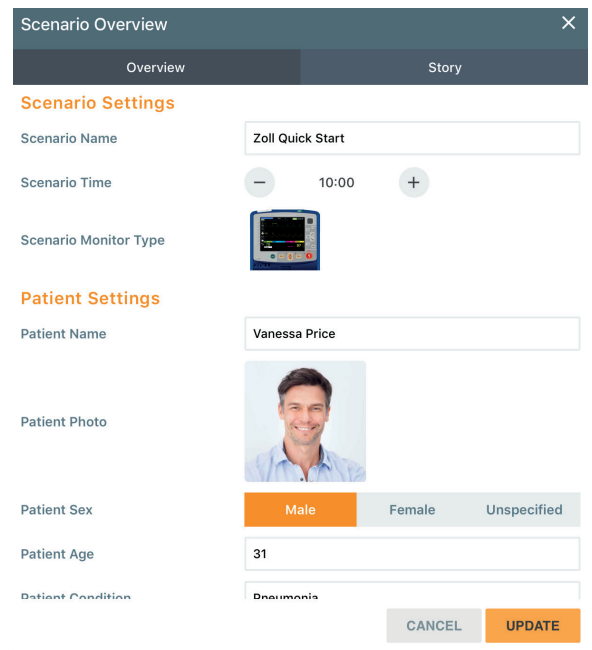
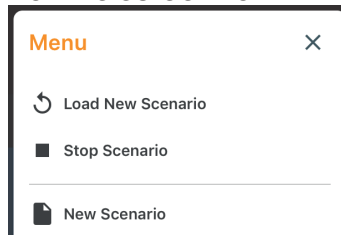
- Confirm by pressing **UPDATE**




Programming an action of a scenario:

- Press  and the following window appears:



The screenshot displays the iPad Controller interface. On the left, the 'Edit Event' window is open, showing fields for 'Name' (Initial screen), 'Trending Time' (Now), and 'Jump To Next After' (Never). The main display shows patient monitoring data for HR (78) and BP (121/79). Below the HR and BP displays are icons for ETCO2 and other vital signs. On the right, a 'New Text Box' window is open, showing a text input field with 'Place text here', a 'Display on Monitor' checkbox (checked), a 'Full Screen' checkbox (unchecked), a 'Display Time' field (00:02), and a 'Jump To Next After' field (Never). The bottom right corner shows a checklist for 'CPR' and 'Checked patient (breathing/circulation)' with a count of 0.

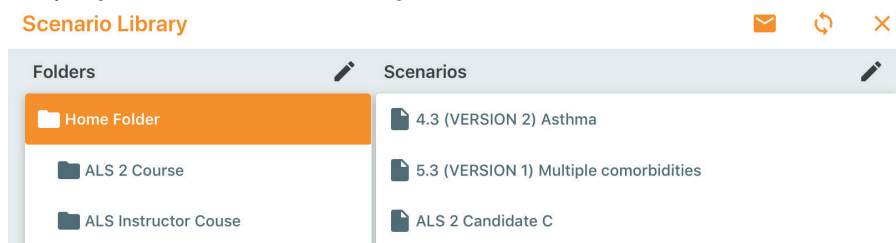


- Enter the name of the step
- Turn off any parameters you do not want to show by pressing 
- Set the parameters with the dials and cursors
- Select the waveform and desired layouts
- Add checklist, media and labs
- Once the step programmed, press 
- Continue to add text and actions
- Once the complete scenario has been programmed, press . You will find all the steps of the scenario and can start the scenario by pressing at the bottom of the screen.
- If you want to edit your scenario, press 

5.2. Deleting, copying and sharing scenarios

In REALTi360, you have the possibility to organize your scenarios into directories, duplicate scenarios or share them with other users.


- On the main screen, press  to display the menu:
- Select to display the Scenario Library window

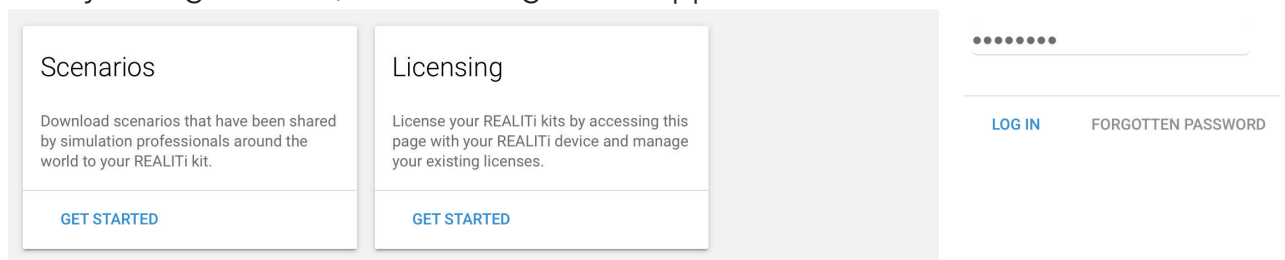


- From this window you can:
 - o Create, delete or rename a folder
 - o Delete a scenario, press on and then on
 - o Share one or more scenarios


5.3. Importing a scenario


You have the possibility in REALTi360 to import or Share scenarios from the Controller iPad.

- On the iPad Controller, open REALTi
- Once on the home page, press 
- The login window appears
- Enter your login details, the following screen appears:

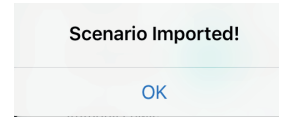


- Select the 'scenarios' tab in the left side
- The list of available scenarios is displayed:

Scenarios				
Name	Description	File Size	Contributor	Inclusions
REALTi 360 Wel...	REALTi 360 Welcome	58 KB	Anthony Lewis	 Images

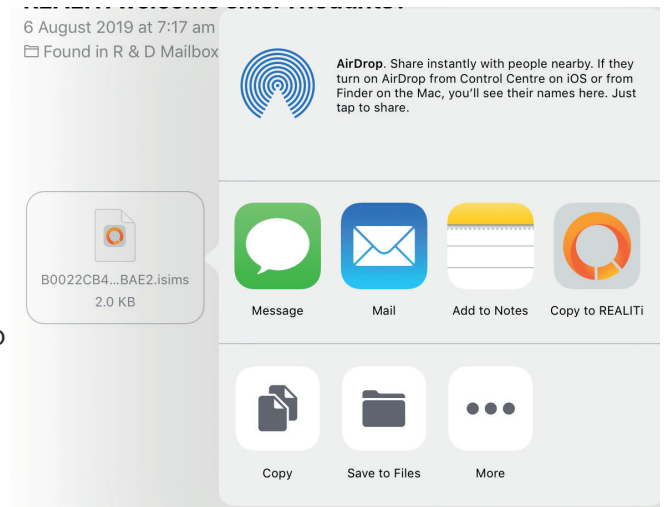


- Start the download by pressing **DOWNLOAD**
- The scenario is saved in the scenario library.
- To organize them or delete them, refer to chapter 5.2



5.4. Importing a scenario by email

- Ensure that the email is received in the iPad's 'Mail' application on which you want to import the scenario.
- Open the email that includes the scenario and keep your finger on the icon of the scenario.
- A window will appear and you can select to copy the scenario to REALTi360
- To finish, the following screen will appear to indicate that the scenario has been imported into REALTi.



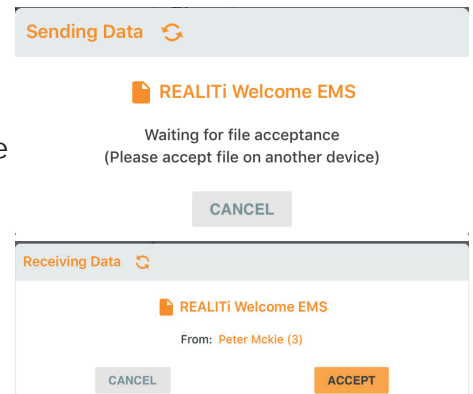
5.5. Importing a scenario by synchronization between iPads

- Connect two iPads on the same Wi-Fi network
- Open the REALTi360 and select the 'Control' mode on both iPads
- On the main screen, press to display the menu:
- Select to display the Scenario Library window
- Select on both iPads

The top window changes color to orange, to indicate that you are in synchronization mode.



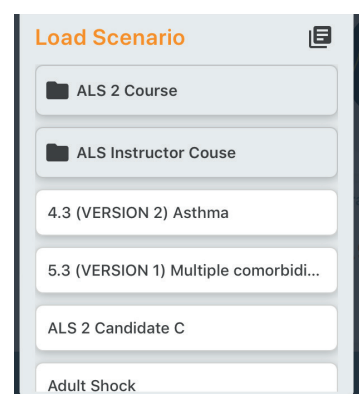
- On the iPad 'source' (the one from which you want to transfer scenarios), click on the scenario to be transferred.
- The following pop-up will appear waiting for acceptance
- The following window will automatically appear on the 'target' iPads (those on which you want to receive the scenario).
- Press **ACCEPT** to start loading the scenario. The loading takes a few seconds and the window closes after loading.
- Ensure that you forget the network you have used to Synchronize scenarios and switch back to the default network to run scenarios.




5.6. How to use scenarios

5.6.1. Choosing a scenario (on the iPad Controller)

- Open controller
- Enter student information (Optional)
 - o Student Name
 - o Student ID Number
 - o Student Email






- You can start a scenario from the list on the left
- You can select a monitor and then select your scenario from the Load Scenario list using the  to show the Scenario list.

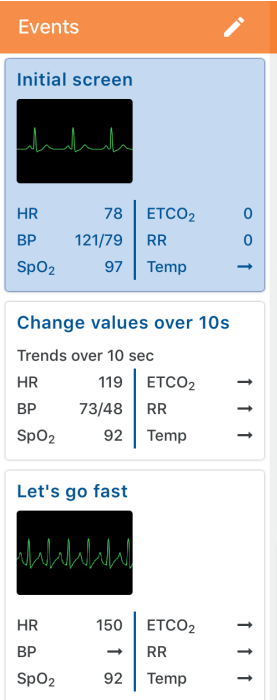
5.6.2. Navigation in a scenario

When creating the scenario, it's possible to create conditional steps to move to the next step or to manually move to the next step.

To switch from one step to another, simply press the step you want to go to. The active step is materialized by a blue background

5.6.3. Scenario editing

- To edit an existing scenario, simply press  to display the editing options. You can:
 - o Add steps to the scenario by pressing **+**
 - o Duplicate a step of the scenario. Press  and then select the step you want duplicate
 - o Move the steps of the scenario by pressing the **=** symbol and holding down the pressure while moving the element
- To delete an item, simply press  the and to validate the deletion.



Events

Initial screen

HR	78	ETCO ₂	0
BP	121/79	RR	0
SpO ₂	97	Temp	→

Change values over 10s

Trends over 10 sec



HR	119	ETCO ₂	→
BP	73/48	RR	→
SpO ₂	92	Temp	→

Let's go fast

HR	150	ETCO ₂	→
BP	→	RR	→
SpO ₂	92	Temp	→

6. Using the Debriefing Function

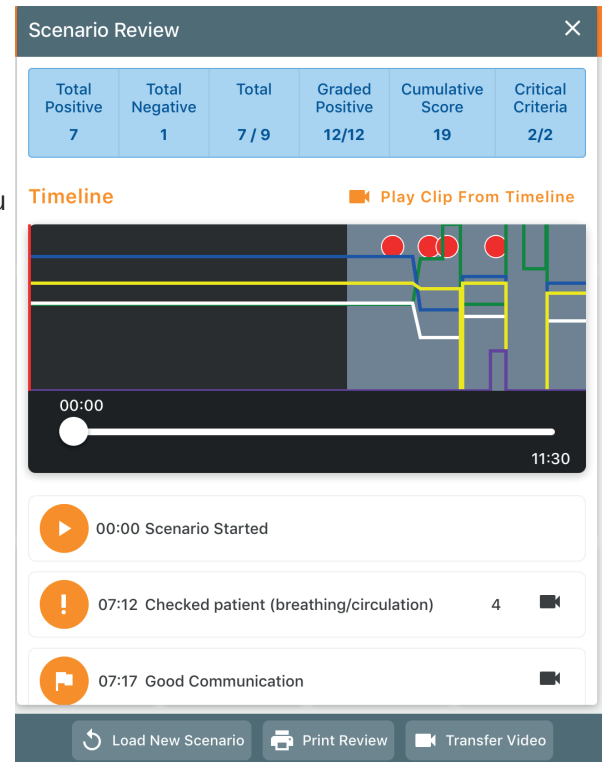
The debriefing function allows detailed analysis of the simulation. The debriefing mode is automatically entered when the scenario is stopped.

- At the end of the simulation, press 
- Confirm the exit of the scenario by pressing 
- The debriefing window is displayed


6.1. Overview of the results

The upper banner of the debriefing panel shows the results obtained according to the expected actions you have set up in the scenario (Chapter 4.3.1)

- **Total positive:** Number of criteria correctly completed
- **Total negative:** Number of incorrectly completed criteria
- **Total:** Total score of expected actions
- **Graded positive:** Number of positive points obtained
- **Cumulative score:** Cumulative score (expected actions and score)
- **Critical critique:** Cumulative number of critical actions expected



6.2. Controlling video playback

Refer to Chapter 8.3.3

6.3. Timeline

The upper banner of the debriefing window shows the results obtained according to the expected actions you set up in the scenario (Chapter 4.3.1)

- The red dot symbolize each flagged event
- The green trend curve shows the heart rate trend
- The blue trend curve shows the trend in systolic blood pressure
- The white trend curve shows the trend of the diastolic blood pressure curve
- The yellow trend curve shows the trend of SpO₂
- The purple trend curve shows the trend of EtCO₂

6.4. Review of expected actions

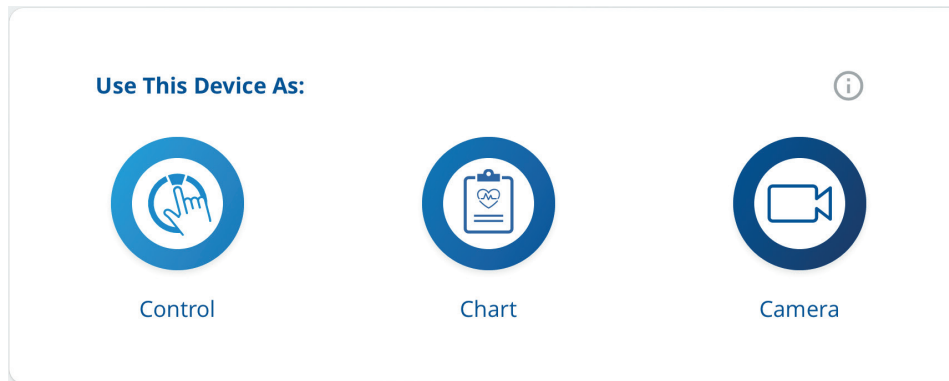
Below the timeline are all validated expected actions, evaluations or tags are found chronologically in this window.

When using debriefing video, it is possible to press on the line to start video playback.

The complete debriefing report is easily available the iSimulate TMS (Refer to Section 9).

7. Use of the REALITi Chart

Depending on the iPad on which you open the REALITi360, the options are different:



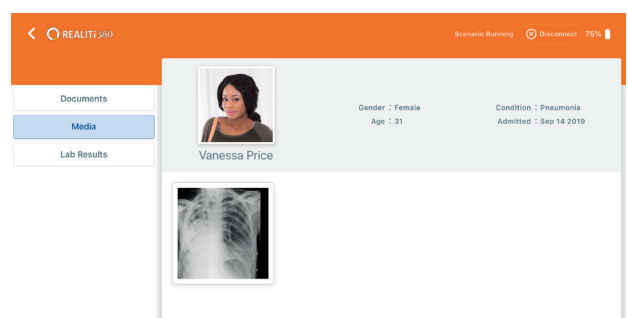
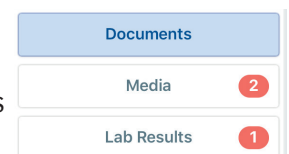
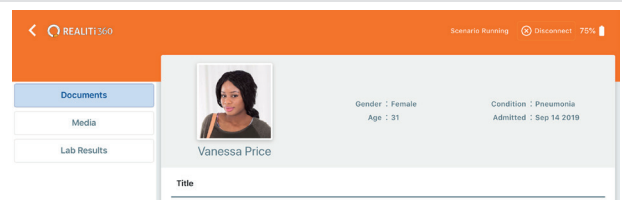
- On an **iPad 12.9" Pro**: You can select between:
 - o Monitor
 - o Control
 - o Chart
 - o Camera
- On an **iPad 9.7" or 10.2"**:
 - o Control
 - o Chart
 - o Camera
- On an **iPhone**:
 - o REALITi Engage



To use the **CHART** function, it's essential to have an additional iPad. All iPad types are compatible with this feature.

7.1. Documents viewing

- Open REALITi360 and select the Chart Mode
- Connect to REALITi360
- The Chart screen appears
- Patient information are automatically updated (identity, age, reason of admission)
- On the left side of the screen there are 3 categories:
 - o Documents
 - o Media
 - o Lab Results
- When a document (ECG, radiological image or laboratory analysis) is sent to the Chart from the iPad controller, a red dot with the number of documents is displayed on the left of the screen
- If you want to view these documents, you can simply press the desired element.
- All documents are displayed. You can zoom in by clicking on the desired element (for ECG or radiological image) or display the details of the biological analysis results.



8. Using the Video Function




The video function requires the activation of the Video option in REALTi360 as well as the acquisition of the video hardware kit.

8.1. Video kit installation

- Insert the iPad into the Padcaster™ mounting frame at the back of the frame. The camera lens should be at the top.
- Screw in the wide-angle lens to the Padcaster™ mounting frame
- Connect the adapter for the microphone and external loudspeaker to the iPad Camera Jack socket. The lead has icons for microphone and speaker
- Place the microphone support on the Padcaster™
- Place the microphone on its support and connect the cable from the microphone to the previously connected connector on the iPad
- Attach the supplied tripod to the iPad
- Turn the microphone ON



It's important to connect the microphone to the plug marked with the  symbol



8.2. Apple™ TV installation



The Video Kit is shipped with a pre-configured Apple™ TV on the REALTi Wi-Fi network.

- Connect the supplied HDMI cable to the display or the projector you want to be used for viewing the video
- Connect the supplied power cable and wait for it to start





8.3. How to use the video function



Make sure that the iPad Camera is connected to the Wi-Fi network of your REALTi system

8.3.1. Simulation recording

- Turn on the iPad Camera and open the REALTi360 App 
- Select the Camera function 
- Connect the iPad to the Monitor
- The real-time video display is visible on the iPad screen. Adjust your simulation space in order to have an interesting angle of view
- The simulation recording will start as soon as the scenario starts on the iPad Controller and continue until it stops.

8.3.2. Liveview visualization of the simulation

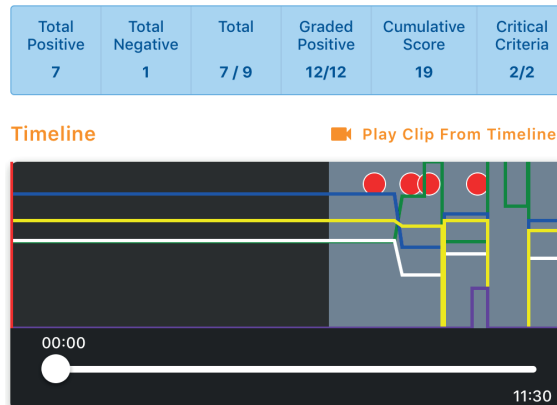


With Apple™ TV, it is possible to broadcast live video of the simulation with vital parameters and waveforms shown.

- On the *iPad Camera*, press to display the device selection window you want to use to broadcast the video
- Select the Apple™ TV to start the broadcast on the device connected to Apple™ TV
- To stop the broadcasting, proceed in the same way by de-selecting Apple™ TV

8.3.3. Video debriefing of a simulation

- Once the simulation is complete, press in the lower control panel of the iPad Controller
- The iPad Camera screen turns black
- To play the video on an external screen or projector, refer to *Chapter 8.3.2*
- On the *iPad Controller*, the review window appears








The colored lines represent the vital parameters (see chapter 6.3).

- Pressing ▶ **Play Clip From Timeline** starts the review
- Playback starts at the beginning of the scenario. You will be able scroll through the **Timeline** to go to the desired sequence.
- You also have the possibility to go directly to the video sequences you have marked (Flag) during the simulation by selecting the action text.
- During the viewing of the debriefing video, you can stop or pause.

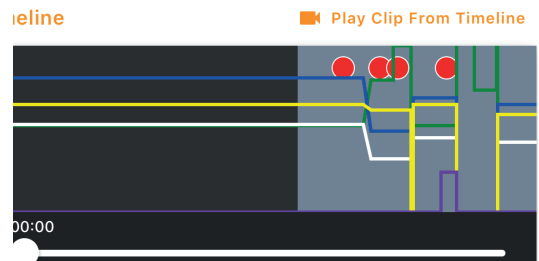
▶	00:00 Scenario Started		
!	07:12 Checked patient (breathing/circulation)	4	▶
🚩	07:17 Good Communication		▶

9. Training Management System (TMS)

The iSimulate TMS function allows you to access a detailed and complete report during each simulation. With this individualized document, it will be easy for you to establish an individualized follow-up of each student. The generated reports can be exported as .pdf files or stored on your server.

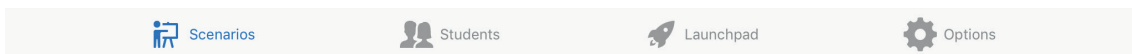
- At the end of the simulation, press  on the lower banner of the REALTi application of the iPad controller
- Confirm the exit of the scenario by pressing 
- The review screen appears
- Press  at the top left of the screen
- Select  Exit to Menu
- On the home page, select 

Total Positive	Total Negative	Total	Graded Positive	Cumulative Score	Critical Criteria
7	1	7 / 9	12/12	19	2/2



In order to have an individualized report, the learner's name must be entered when selecting the scenario.

Lower function banner



9.1. Scenarios

- It's the scenario dashboard where you will find all the simulation. You will be able to review or delete them.

Zoll Quick Start, Peter Peter
Session started 14/9/19, 1:14:08 pm AEST and ended 14/9/19, 1:25:38 pm AEST (12 min.)

9.1.1. Deleting a scenario

- On the main page of the scenarios, sweep from right to left to display the delete icon



9.1.2. Review of the report 'iSimulate TMS'

- Select the scenario you want to view by pressing on the corresponding line

REALTi	iSimulate TMS	Export CSV
25 Jul 2019		
Sepsis, Anonymous Student Session started 25/7/19, 4:52:48 am AEST and ended 25/7/19, 4:57:42 am AEST (5min.)		
Corpuls Quick Start, Anonymous Student Session started 25/7/19, 4:42:08 am AEST and ended 25/7/19, 4:50:49 am AEST (9min.)		
16 Jul 2019		
Zoll Quick Start, Anonymous Student Session started 16/7/19, 6:30:56 am AEST and ended 16/7/19, 7:09:05 am AEST (38min.)		
25 Apr 2019		
TRAUMA SCENARIO - ROUND 1 ZOLL X SERIES, Anonymous Student Session started 25/4/19, 10:07:28 pm AEST and ended 25/4/19, 10:08:33 pm AEST (1min.)		
TRAUMA SCENARIO - ROUND 1 ZOLL X SERIES, Anonymous Student Session started 25/4/19, 10:05:20 pm AEST and ended 25/4/19, 10:07:46 pm AEST (2min.)		
17 Apr 2019		
REALTi Welcome, Julia Gillard Session started 7/9/18, 10:49:04 am AEST and ended 7/9/18, 10:58:51 am AEST (10min.)		

- The report is displayed by default on the **Overview** page

Overview CPR Event Log

Overview CPR Event Log

Surname	Gillard	Scenario Started	7/9/18, 10:49:04 am AEST
First Name	Julia	Scenario Finished	7/9/18, 10:58:51 am AEST
Student #	912608	Scenario Duration	10min.
Email	test.address@isimulate.com	CPR Band Data Available	No
Scenarios on record	1	Scenario	REALITI Welcome
		Scenario ID	ABC-EASY-AS-123

Total Positive
4

Total Negative
7

Total
4/2

Graded Positive
10/7

Cumulative
1

Critical
3/13

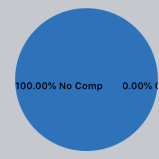
- You will find the correspondence between the different items in the summary table in chapter 6.1

Summary of cardiopulmonary resuscitation

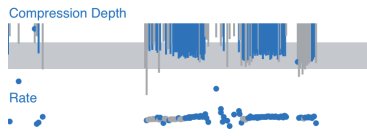
Overview CPR Event Log

CPR Started
4:48:01 am
 CPR Finished
4:55:06 am
 CPR Duration
7 minutes


Number of Compressions
147
 Mean Compression Depth
5.1 cm



Compression Depth



Rate




52.4% in target depth

20.4% in target rate

100.00% No Comp 0.00% Comp

Compressions in target



10.9% compressions in target

04:48:01
04:50:01
04:52:01
04:54:01

Summary of events and assessments

Overview CPR Event Log

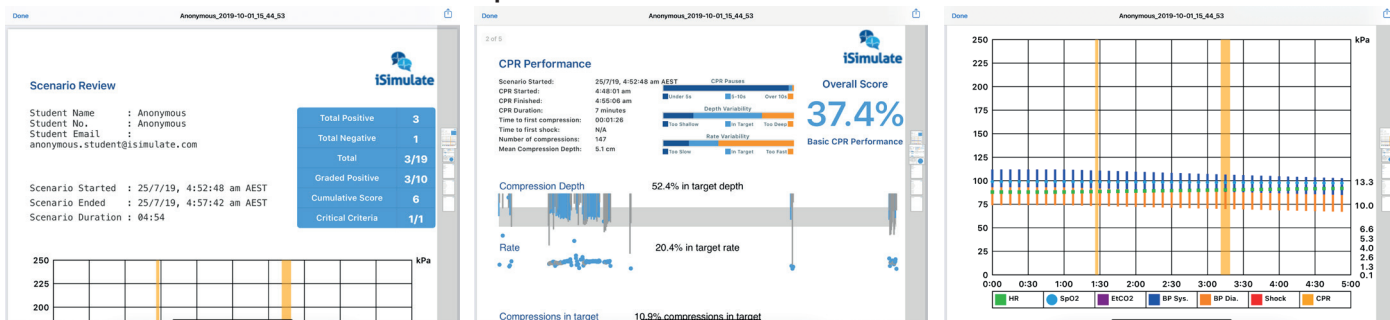
- ▶ 00:00 Scenario Started
- 📷 00:00 Camera turned on
- 🚩 00:25 Poor Performance
- ! 00:29 Patient Assessment Done:2

The functions of the lower banner

Delete
Rename
De-identify
Video
PDF

- **Delete** allows you to delete the report being viewed
- **Rename** allows you to rename the scenario
- **De-Identify** allows you to anonymize the scenario (the scenario name will be deleted)
- **Video** allows access to the Video debriefing
- **PDF** allows you to edit the report in .pdf format

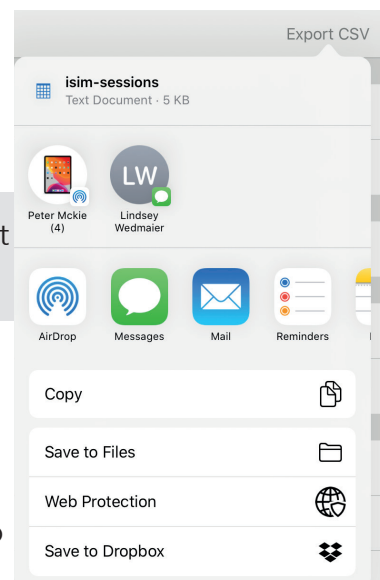
9.1.3. PDF simulation report



- You can send the .pdf report to an email address, via mailbox or Airdrop, press the icon to share the .PDF file
- Select the transfer method corresponding to your needs



In order to Share the scenario, ensure that there is a Internet connection.



9.2. Student management

- By pressing , the following window appears in which you can find all students
- By touching the line corresponding to the student you wish to review, the student window will open
- The function allows you to transfer the student to the Launchpad tab

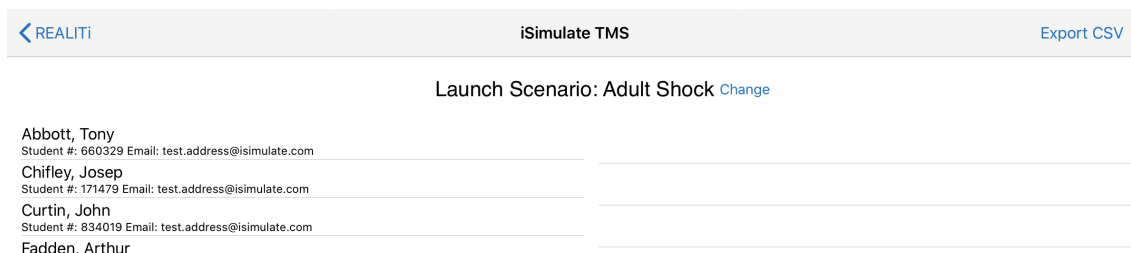


The student management function doesn't allow to modify the student information. The initial Student informations must be rigorous. (chapter 5.6.1)

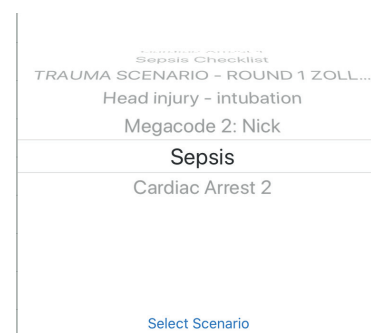
9.3. Launchpad

This tab allows you to start a simulation directly from this section without having to re-enter the student's contact information.

- By pressing the 'Launchpad' icon, the following window appears in which you can find all students in the database




- In order to slide the students into the active part of the Launchpad
- Select the desired scenario by pressing 'Change'.
- The scenario selection window appears
- Press the desired scenario and confirm by
- Once selected, the iPad Controller will automatically open the scenario command screen.



9.4. Options

Through this menu, you can customize the TMS report by inserting your organization's logo.

- Select  in the lower banner
- Select your logo from the photo library of your iPad Controller



10. User license Updating



The REALTi license is activated by iSimulate. Each license is assigned to a single REALTi package. The license number is to be entered in the iPad Pro of the Monitor only. You must be connected to the Internet to activate the license.


Before starting the licensing process, you must be in possession of your login details to access your iSimulate Online account. This ID and password were provided to you when you purchased your REALTi set.

10.1. Access the Community

- Open REALTi
- On the home screen of your iPad Monitor select **Community**
- In the login window, enter your login details
- The iSimulate Online page appears



my.login

..... 


Sign in

[Forgotten Password?](#)



If you have forgotten your password, you can request to send it to the email address of your iSimulate Online account

10.2. Activation of a license

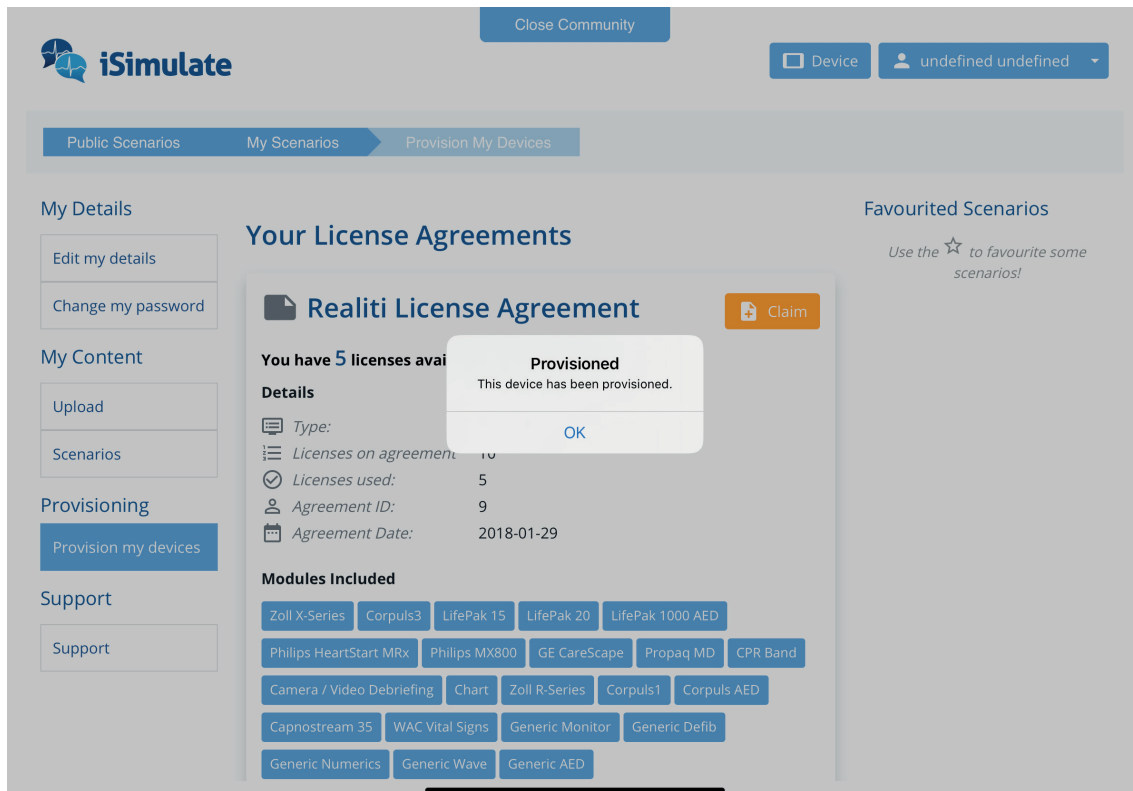
- Once connected to iSimulate Online, select the **Provisioning** option to display the list of your licenses
- The licensing window appears
- Press 
- The **New License Claim** window is shown

- Select the color of your kit from the list. This is identified by the luggage tag on the case.
- Enter iPad Serial Number
 - o Go to **iPad** Settings > General > About
 - o Look for your device's serial number
 - o Touch and hold over the Serial Number line to copy the serial number
 - o Go back to REALiTi Community
 - o Touch and hold over the Device Serial Number area to paste the serial number
 - o Press **License Current Device** to claim license



Enter device serial number

D M P X K 7 J 4 K F 4




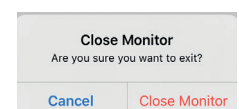
10.3. License release

If for any reason you replace your **Monitor iPad**, you must first **Relinquish** or **Release** the license of the old iPad Monitor before assigning it to the new iPad Monitor.

- Once connected to iSimulate Online, select the **Provisioning** option to display the list of your licenses
- Press **RELINQUISH**
- Confirm the action to relinquish you license

10.4. Exiting Community

- Quit iSimulate Online by double-clicking 
- Confirm the action by pressing **Close Monitor** prompt
- You will return to the main screen.

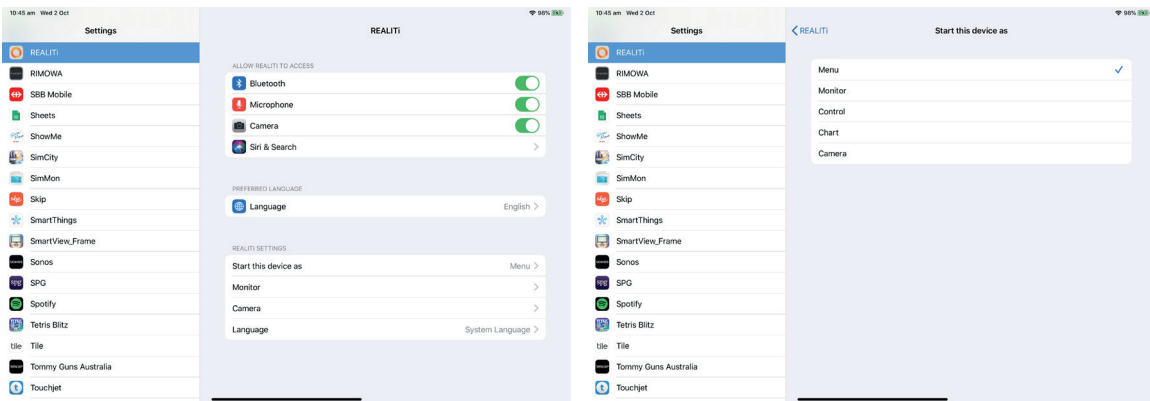


11. Advanced Settings

Although the iSimulate package is very easy to use, it's possible to adjust many parameters. This section is intended for **experienced users** who have a perfect knowledge of the use of REALTi.

11.1. Advanced settings of iPad Controller, of iPad Video and iPad Chart

- Go to the settings  menu of your iPad and then, in the list on the left, select REALTi



- Ensure access to Bluetooth, Microphone and Camera are on
- The option '**Start this device as**' allows you to define the default operating mode when opening the iPad:
 - o **Menu**: Displays the home page allowing you to choose the functions
 - o **Control**: Controller mode
 - o **Chart**: Chart mode
 - o **Camera**: Camera mode, Microphone and App.

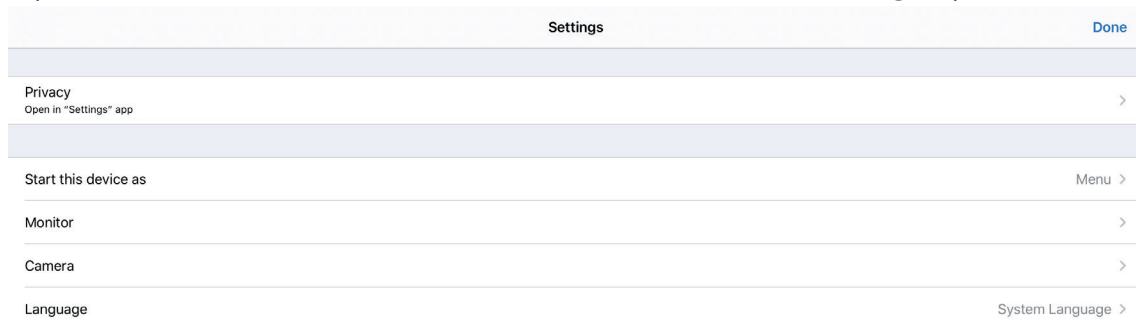


'Staging' mode and 'Monitor' options are only possible on the iPad Pro 12.9"

- '**Camera**' option allows you to adjust the recording quality of the *iPad Camera*
- The '**Language**' option allows you to select the default language of the REALTi app

11.2. iPad Monitor advanced settings

- Open REALTi and then, on the main screen, select the **Settings** option



- The '**Privacy - Open Settings App**' opens the advanced privacy settings in the iPad settings menu
- The option '**Start this device as**' allows to define the default operating mode when opening the REALTi on this device as per 11.1
- The '**Monitor**' option allows to set the different parameters related to the iPad Monitor

INDIVIDUAL MONITOR SETTINGS

Corpuls3 Settings	>
Corpuls1 Settings	>
LIFEPAK 15 Settings	>
LIFEPAK 1000 AED Settings	>
Zoll X-Series Settings	>
HeartStart MRx Settings	>
LIFEPAK 20 Settings	>

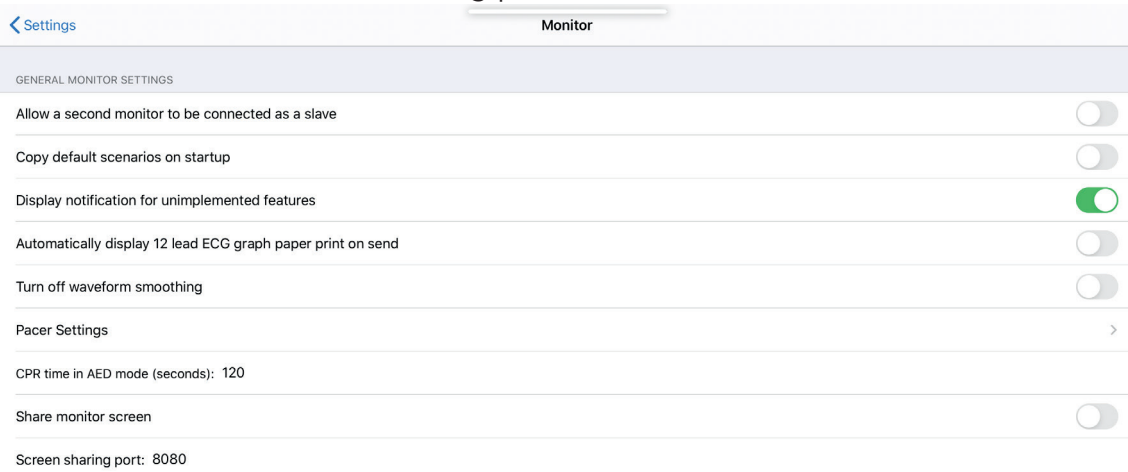


Depending on your license and the 'Premium' appearance screens to which you are allowed, some settings are not active

11.2.1. General settings of the iPad Monitor

- You can:

- o Enable or disable the ability to use a second iPad Pro Monitor to simulate a second monitor (copy of the first)
- o Allow you to copy the default scenarios when starting REALTi360
- o Enable the display of a pop-up indicating the functions that are not implemented in your REALTi formula
- o Whether or not the 12 Lead ECG is immediately displayed without any manipulation on the iPad Monitor
- o Enable curve smoothing
- o Access to the specific menu of the pacing
- o Enable the memorization of the last frequency value of the pacing
- o Activate the memorization of the last intensity used during pacing
- o Default frequency when pacing is activated
- o Default electrical current when pacing is activated
- o Duration of the cardiac massage period between 2 analyses in AED mode
- o Enable monitor screen sharing
- o Set the monitor screen sharing port (default: 8080)



11.2.2. Specific settings to the different Premium screens

- You are able to set specific aspects of the monitor you have in REALTi