

REALITi360



USER GUIDE

Version 8

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1. REALITi360 Ecosystem

Our REALITi360 system consists of a basic kit and optional modules.

1.1. Basic Kit

The basic (or standard) kit consists of the following components:

- ▶ the iSimulate-Hardcase
- ▶ a monitor tablet (Apple iPad Pro / 12.9" / 64GB / Wi-Fi)
- ▶ a controller tablet (Apple iPad / 10.2" / 32GB / Wi-Fi)
- ▶ a set of cables and electrodes for adults:
 - » 12 lead ECG trunk cable
 - » 3 lead ECG cable
 - » 7 lead ECG cable for 12 lead ECG
 - » SpO2 sensor
 - » NIBP cuff
 - » EtCO2 sensor
 - » defibrillation pads
 - » self-adhesive ECG electrodes
- ▶ a Wi-Fi router
- ▶ a protective case for the controller tablet (with 360° swivel)
- ▶ an external battery/powerbank
- ▶ all necessary chargers and cables
- ▶ a protective cover/carry bag



1.2. CPR-Feedback Module

This optional module can be used to extend the capability of your REALITi System even more by providing in-depth and comprehensive integration of CPR into your training.

It consists of:

- ▶ two CPR sensors
- ▶ two corresponding USB charging cables
- ▶ different devices for integration of the sensor:
 - » a sternal pad to be placed on a manikin
 - » two wrist bracelets to be worn by the trainees
 - » a bracket to be placed inside the manikins chest
- ▶ a storage/protection case



1.3. Video-Feedback Module

This optional module extends the capability of your REALTi System by providing the possibility to record your training on video, and helping you debriefing afterwards.

It consists of:

- ▶ a camera tablet (Apple iPad / 10.2" / 128GB / Wi-Fi)
- ▶ a Padcaster frame
- ▶ a Tripod
- ▶ a wide-angle lens for use with Padcaster
- ▶ an active, unidirectional microphone for use with Padcaster
- ▶ all corresponding chargers and cables
- ▶ a video-streaming device (AppleTV)
- ▶ the needed HDMI cable
- ▶ an external battery/powerbank



Video-Feedback in use

2. GETTING STARTED

2.1. Create a Wi-Fi network

You will receive your whole REALTi-Kit with the iPads as well as the router already pre-configured - so you can start immediately.

1. Turn on the Wi-Fi router by either plugging in the AC adapter or the external battery/powerbank with a USB to USB-C cable.

IMPORTANT

Please use the powerbank that is already part of your kit. If you want to use your own or a second one, please pay attention to the power output capabilities - if they're too low the router will indicate an «Adapter Error».

2. Wait until the router has finished starting up, by displaying «Plug in cable».

This message is normal when not connected to the internet.

With REALTi you're independent of internet-connection, so just start your training and don't worry!

2.2. iPad connectivity

Once the Wi-Fi network is active, turn the monitor- and the controller-tablet on, they will automatically connect to the network you just created.

Start the REALTi application -  - on both devices and select:



- on the MONITOR tablet

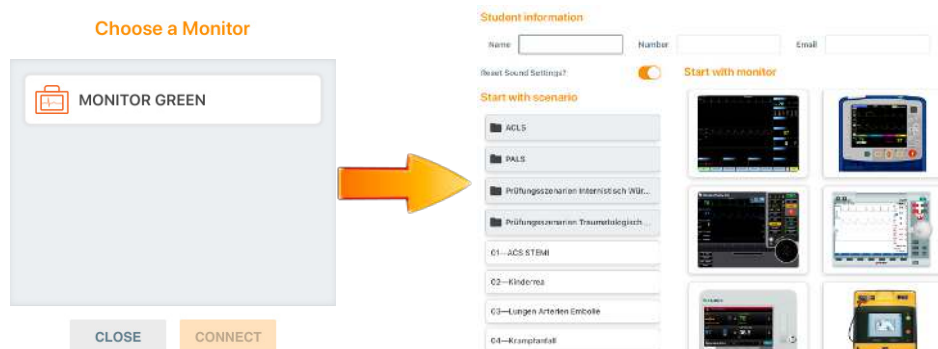


- on the CONTROLLER tablet

On the CONTROLLER, press  at the bottom of the screen.

Select the corresponding monitor based on the color-code of your system. If the monitor doesn't show up in the list, please check that both devices are connected to the same (color-coded) REALTi Wi-Fi network*.

Once selected, the controller will automatically switch to the scenario selection interface:



* When configuring your kit, we assign a color for each of your kits with a luggage tag, to help you keep track of your devices.

IMPORTANT

The most common cause of connection issues is due to the fact that the iPads are connected to different networks. Make sure that they are both within the same Wi-Fi network. If you want to change to an external network temporarily, remember to make the device «forget» said network by going to:
SETTINGS > WI-FI > CONNECTION NAME > 'FORGET THIS NETWORK'

3. UPDATING REALITi360

In order to improve and expand the functionality and user experience, your application will be updated regularly. Once an update has been released, you'll receive a message - when a major update is necessary, we will contact you via e-mail as well.

To complete the update, you can either

- ▶ connect the iPads to a Wi-Fi with internet access, or
- ▶ connect the REALTi Wi-Fi router to your standard internet router via ethernet cable (RJ45)

1. Open the Apple App-Store on the CONTROLLER tablet and go to the «Updates» tab.
2. In case of an available update, it will be displayed in this list.
3. Download and install it.
4. Switch back to the REALTi network and make the iPad «forget» the network used for updating.
5. Repeat for all tablets on your system.

After the update is completed on all devices, you can start the REALTi360 app again.

When downloading the REALTi application, you may need to enter the password linked to the "---@icloud.com"-account that was provided to you after purchase.
We recommend that the password is changed according to the policies of your organisation.

4. OPERATING THE CONTROLLER

You can control all of your system entirely using only one iPad - which makes its capabilities and therefore handling very comprehensive. To get started, it is absolutely essential that the CONTROLLER is connected to the MONITOR in the same Wi-Fi network.

Once you've chosen what scenario you want to start with, you'll be forwarded to the initial control interface.



4.1. Overview of the screen

The REALiTi application control interface is divided into five main different sections:






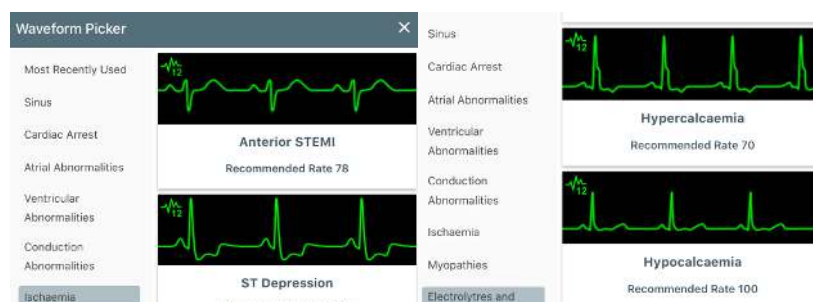
- **Section 1:** Loading and scenario management
- **Section 2:** Control of physiological parameters including SpO₂, EtCO₂ and invasive blood pressure
- **Section 3:** Checklist, sounds, media, labs
- **Section 4:** CPR and pacing management
- **Section 5:** Lower function banner


4.2. Basic functions

You can modify the vital parameters as well as the appearances of ECG traces, SpO₂, EtCO₂ and blood pressure wave forms (in section 2 of the image - '4.1. Overview of the screen').

4.2.1. Cardiac features

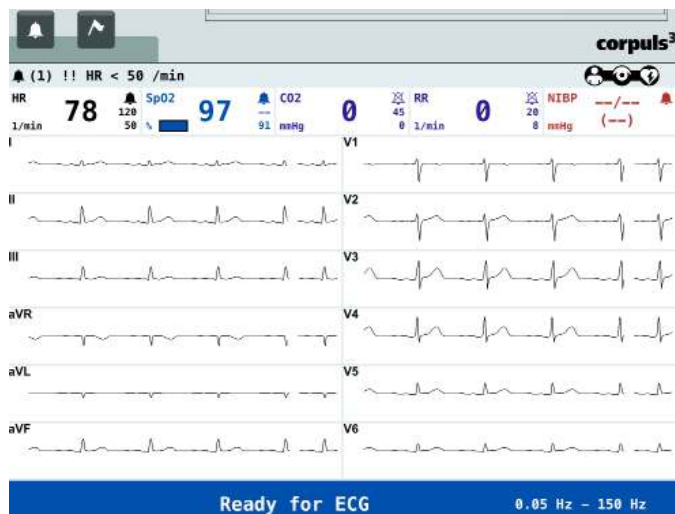
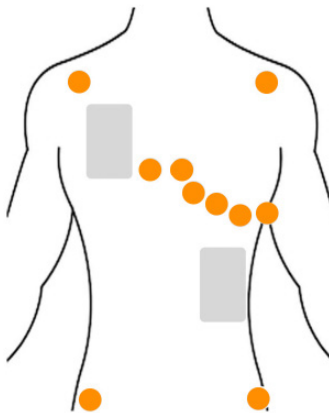
- ▶ Change the frequency by turning the selector dial and confirm by pressing  at the bottom right of the screen.
- ▶ Hide or show all cardiac parameters by pressing . This allows you to simulate the connection of cables at the start of your training.
- ▶ Touch the waveform image in the center of the dial to change the waveform. Select the desired category and hit  to transmit it to the monitor.



- Press the  icon to access the dynamic 12-channel ECG settings. You can choose which leads should be displayed by activating/deactivating them on the controller (e. g. for simulating fallen off electrodes):

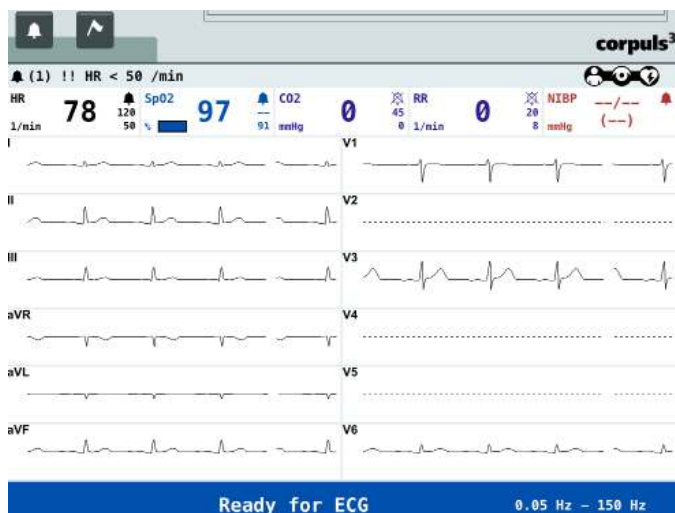
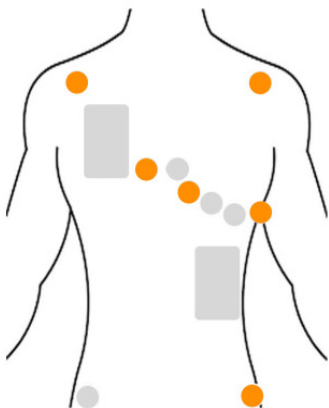
Electrode Placement

Manual Placement



Electrode Placement

Manual Placement

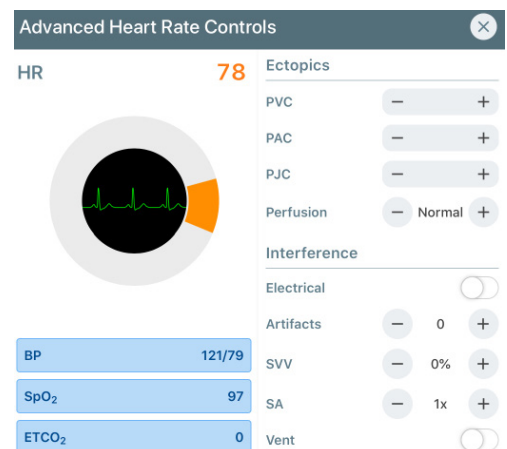


This feature is only available on monitors that support 12-lead capability.

To access the advanced cardiac features, press  :


In this selection you can

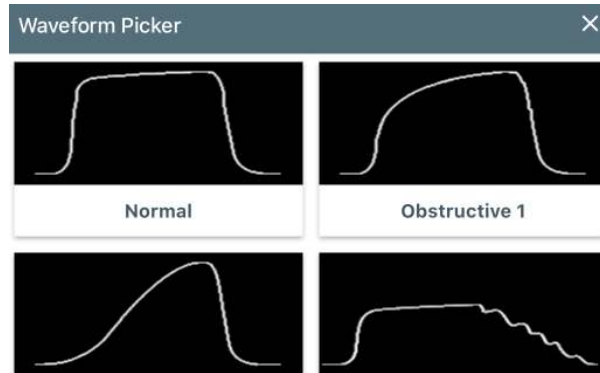
- ✓ add PVC's/PAC's/PJC's
- ✓ add electrical interferences/artifacts
- ✓ add Sinus Arrhythmia (SA)
- ✓ dampen the plethysmography curve
- ✓ vary the Stroke Volume Variation (SVV)
- ✓ and synchronize the QRS with ventilation.




4.2.2. Respiratory/EtCO₂ features

You can change the parameters of the respiratory rate as well as the EtCO₂ value.

- ▶ Change the breath rate by switching to RR and then turning the selector wheel to the required value.
- ▶ Show/hide the curve on the monitor by pressing .

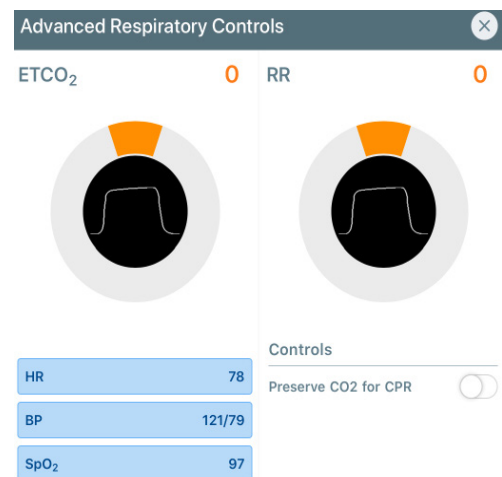


- ▶ Change the value of EtCO₂ by setting the switch to ETCO₂ and turning the dial to the desired value.
- ▶ Choose a different EtCO₂ curve by pressing the center of the dial to display the curve selection window.
- ▶ Hit  after every change you make to transmit the information to the monitor.

To access the advanced features, press  :

You can

- ✓ preserve the EtCO₂ value during CPR.



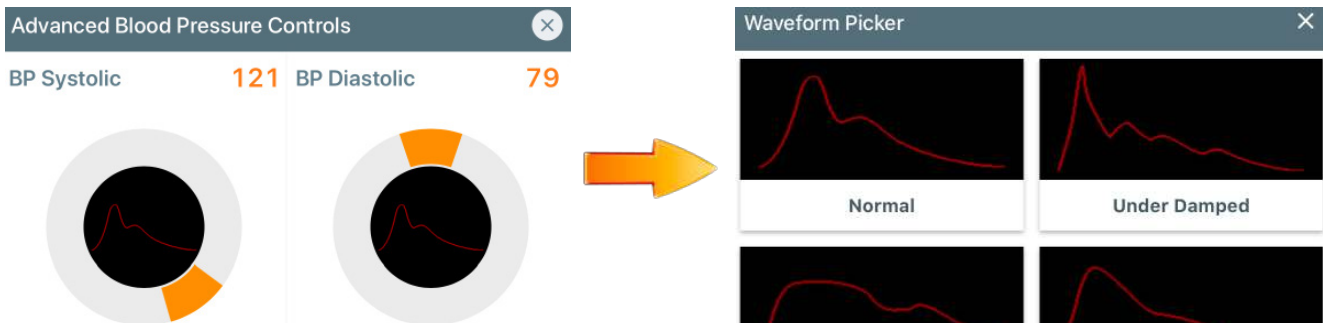
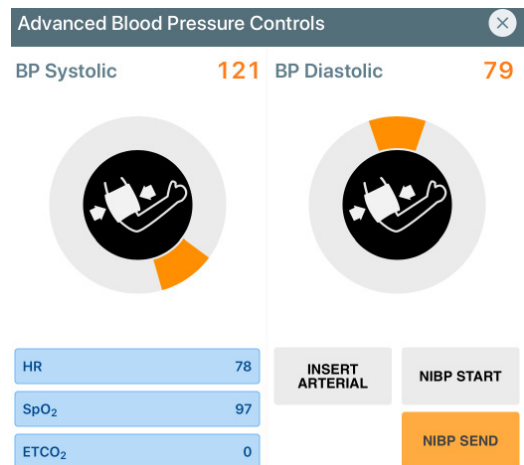
4.2.3. Blood pressure features

Turning the selector dial will change the blood pressure according to your desired output.

To access the advanced features, press  :

You can


- ✓ modify the systolic/diastolic pressure separately
- ✓ start NIBP measurement via the controller or send it immediately
- ✓ display the invasive arterial pressure curve - where you can, once again, choose between different wave forms by tapping in the middle of the dial



Hit  after every change to transmit it to the monitor.

4.2.4. SpO₂ features

Turning the dial influences the O₂ saturation.

- ▶ Show/hide the curve by pressing . Using this feature, you can simulate the time it takes to connect cabling during the initial phase of the simulation.
- ▶ Choose a different SpO₂ curve by pressing the center of the dial to display the curve selection window.

4.3. Checklist/Sound/Media/Lab

This tab allows access to a number of different functions (see Section 3 of the image in '4.1. Overview of the screen'):

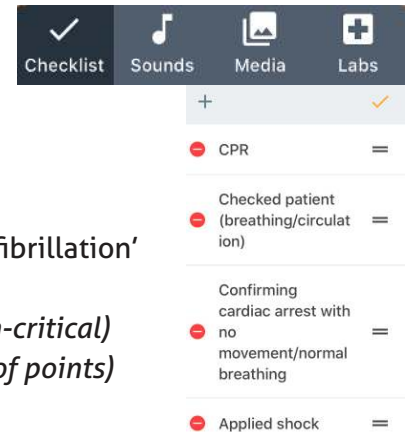
- ▶ Validation of expected actions (Checklist)
- ▶ Monitor sound adjustments/audio and auscultatory sounds
- ▶ Media (X-ray images, CT scans incl. your own added images)
- ▶ Laboratory results

4.3.1. Validation of expected actions



Use this feature to validate the actions and performance of your trainees by incorporating your own evaluation program into your scenario.


Use:

- Yes/no validation (performed/not performed)
- Score evaluation (0-10, user set)



How to create a new item in the checklist:

- access the «Checklist» tab, press  and then 
- name the expected action in the «Item Text» box, e. g. 'Defibrillation'
- set the type of evaluation:
 - *Check: validate via yes/no (and choose if critical/non-critical)*
 - *Graded: validate via rating (and set your own range of points)*
- Press «UPDATE»

To organize your checklist, you can move the different items by pressing and holding  while sliding them up and down to fit your desired order.

You can also delete them by pressing the .

Once you've made all desired changes, simply exit the edit mode by pressing .

4.3.2. Sounds features


This tab allows you to adjust or mute the volume of the monitor alarms and heartbeat sounds and gives you access to a large selection of different sounds.

‣ Management of the monitor volume:

To change the monitor volume, slide the cursor  accordingly.

To mute all sounds, press .

To mute only the alarms, press .

To mute only the sound of the heartbeat, press .



IMPORTANT

In addition to the sound settings through the REALITi application on the controller tablet, the sound output remains connected to the settings on the monitor tablet.






If there is no sound, please make sure that the monitor is not in silent mode.

‣ Access the sound library:

Select the desired category:

- Questions
- Conversations
- Responses
- Bodily noises
- Medical sounds
- User recordings

► **Record your own sounds:**

1. Press the microphone button .
2. The «New Recording» window appears.
3. Press  to start recording.
4. To pause, press  and to stop .
5. After that, press «SAVE» and your recording will be available under «User recordings» in the future.
6. If you want to delete them later, just press  while you are in the user recordings list.

User Recordings



New Recording




00:00



The sound is played via the speaker of the controller tablet. You can also connect the iPad to the audio system of your training environment or to an external device.

4.3.3. Media features

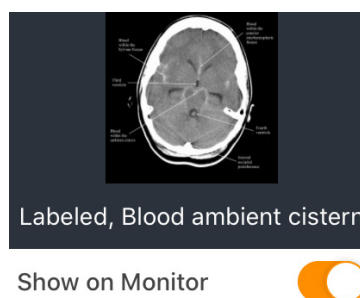
This tab allows you to send radiological images (CT, X-ray, Ultra Sound etc.) to the monitor tablet. If you use the patient-chart tablet too, the images will be simultaneously transmitted to it as well - which makes it possible to create a 'clinical information system' for the simulated patient.



To add images to your scenario, press the edit icon () which makes the media selection window appear.

1. Select the desired category:
 - » Images or
 - » Imported Media (import your own by pressing )
2. Choose the desired picture - it appears in the list to the right.
3. Confirm the selection by pressing .

To transmit the image to the monitor tablet, use the «Show on Monitor» switch below. Tap on the thumbnail of the image to display it on the monitor.




To delete a picture, access the edit mode via the  icon and choose  in the list.

4.3.4. Lab features


This tab allows you to incorporate laboratory results into your training, for even more in-depth simulation.




To import lab results:

1. Go to the «Labs» tab on the right of the screen.
2. Press  to access the lab results screen.
3. Choose the section you need and change the values accordingly.

The image shows two side-by-side screenshots of the 'Lab Results' interface. The left screenshot displays a list of templates under the heading 'Templates'. The templates include 'New Blank Template', 'ABG', 'ABG Plus', 'Cardiac Panel', 'Coagulation', 'CSF', 'FBC - Female', 'FBC - Male', and 'Lung Function'. The right screenshot shows the 'Lab Details' form for the 'Cardiac Panel' template. It includes a 'Name' field with 'Cardiac Panel' entered, a 'Short Description' field, and a 'Parameters' section. The 'Parameters' section has a table with four rows: 'Creatine Kinase CK' (50 U/L), 'Creatine Kinase MB' (2 µg/L), 'Troponin I' (0.00 µg/L), and 'Troponin T' (0.00 µg/L). Each row has a minus button, a value field, a plus button, and a dropdown arrow. At the bottom of the right screenshot are 'CANCEL' and 'UPDATE' buttons.

4. When all parameters are adjusted to your liking, hit «UPDATE».
5. Exit by pressing .

To transmit the results to the patient chart tablet, press ➤. If you wish to delete them, go into edit mode, press  and confirm.


IMPORTANT

The “Labs” function requires an additional iPad to be used as the patient chart monitor.
(Please refer to section 7)

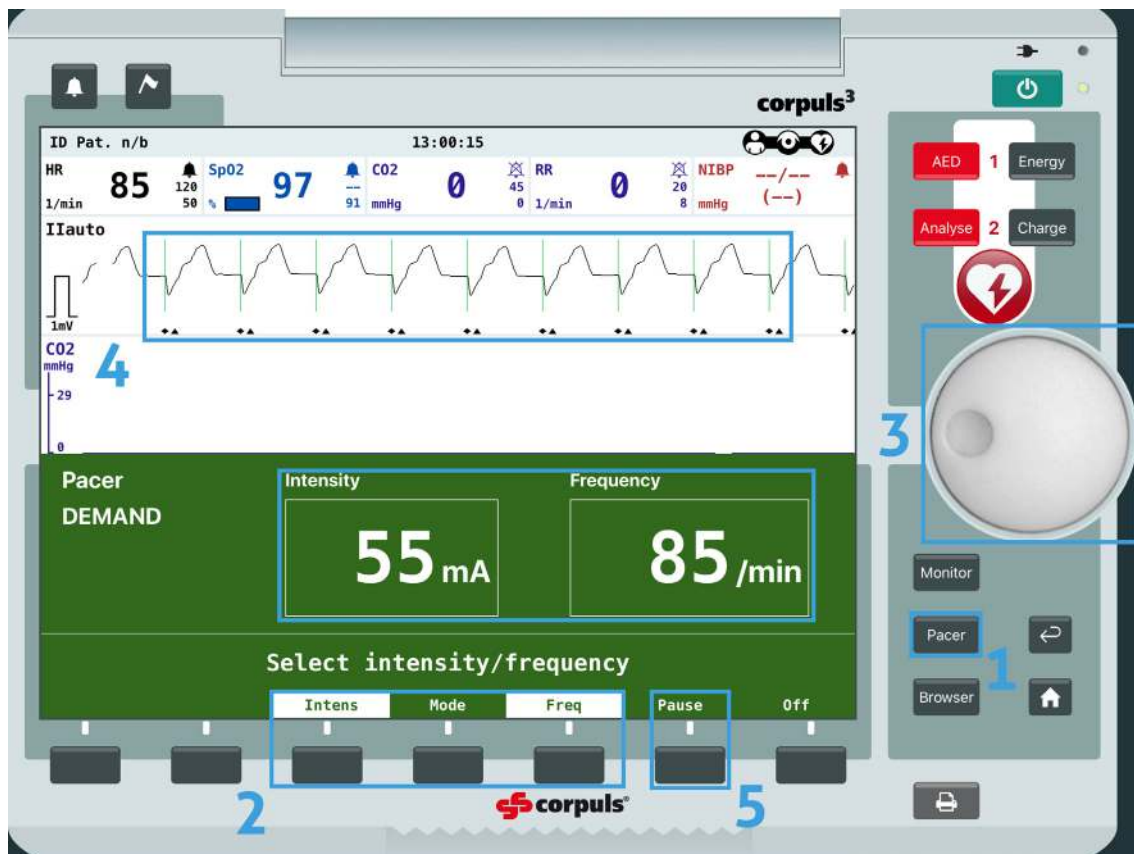
4.4. CPR and Pacing

CPR and Pacing features are also supported by REALiTi. Use the corresponding pacer-feature, which is dependent on the screen you are using.

4.4.1. Pacing features

Press  in the CPR section of the controller to display the pacing menu. Here you can adjust the threshold and capture for the pacer.

Use the corresponding feature of the monitor, which is dependent on the screen you are using. Here as an example for the Corpuls C3:





1. Press the «Pacer» button (1) on the monitor tablet, the intensity/frequency window pops up.
2. Select either «Intens» or «Freq» using the buttons on the bottom of the device (2).
3. Adjust the selected value using the selector dial to the right (3). You can always adjust the frequency or intensity during the pacing.
4. Now you should see the pacing reflected on the display (4).
5. You can pause the pacer at any time by pressing «Pause» (5).

4.4.2. CPR features

You have two possible options to conduct CPR training - either with the corresponding CPR sensor or without.

4.4.2.1. CPR without CPR sensor

- ▶ When trainees begin CPR, press the  button - the icon will change to red .
- ▶ The cardiac trace that's reflected on the monitor can be chosen on the controller by tapping on the wave on the right of the screen.



Preserve the display of EtCO₂ by selecting the option in the advanced section.
(Please refer to section 4.2.2.)

When CPR is stopped, press  to display the underlying ECG.

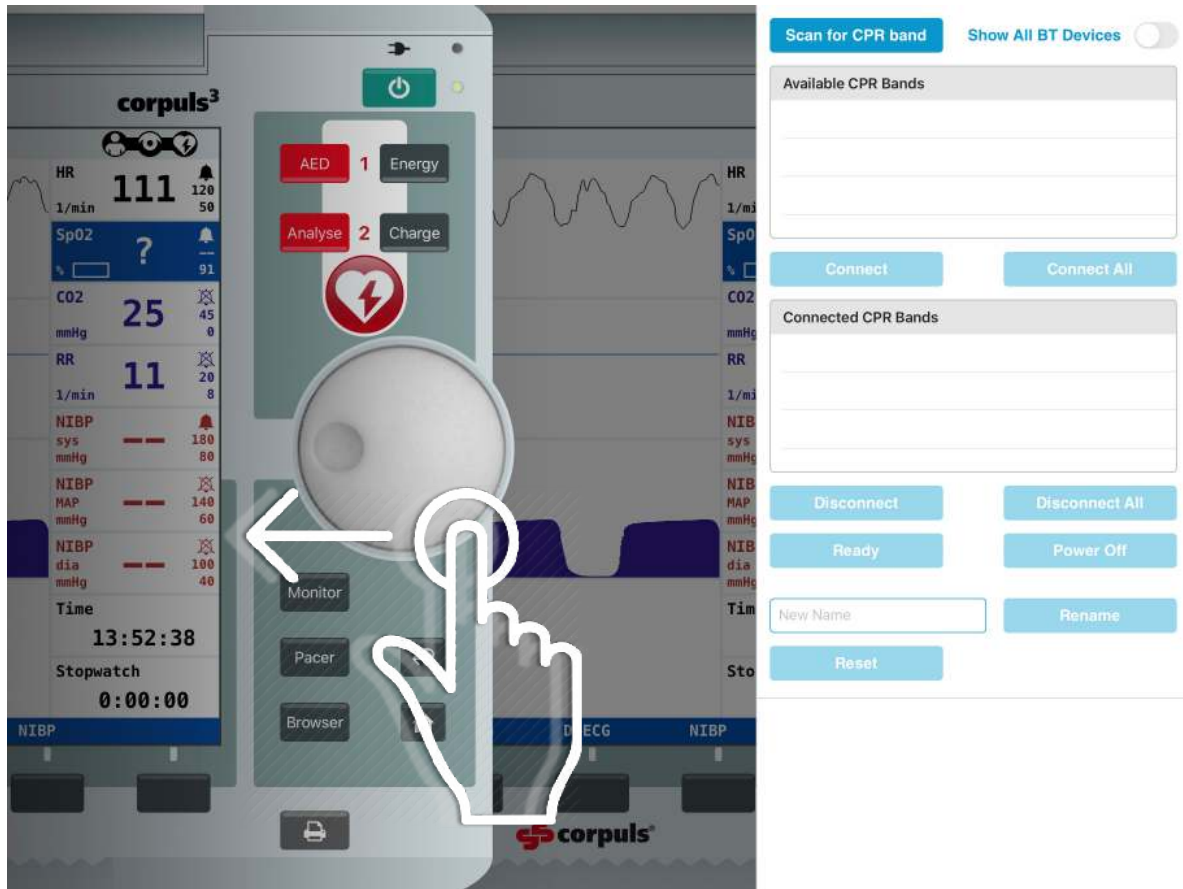
On some monitors, such as the ZOLL X-Series, the screen can display the filtered cardiac trace (option "See-Thru CPR" in the CPR section - refer to '4.1. Overview of the screen'.)


4.4.2.2. CPR with CPR sensor



4.4.2.2.1. Connecting the sensor

1. Switch on the CPR sensor by pressing the button on the side of the device.
2. Swipe inward from the right edge of the screen of the monitor tablet to display the sensor connection window:



3. Press «Scan for CPR band» and the available sensor(s) will appear in the list. All sensors must begin with 'CPR' to be visible, if it's not found select «Show All BT Devices».
4. Select the sensor you want to use and press «Connect». The connection is confirmed when the sensor appears under «Connected CPR Bands» - this will also reflect on the controller tablet by displaying .
5. Tap outside the connection window on the monitor to close it.

4.4.2.2. Renaming the CPR sensor

When using multiple CPR sensors, it is useful to give them different names, such as 'CPR-blue', 'CPR-red' and so on. The name needs to start with 'CPR' to be visible to the monitor.

1. Connect and choose the sensor you want to rename.
2. Type in the new name in the corresponding 'New Name'-field below.
3. Press «Rename».

4.4.2.3. Calibrating the CPR sensor

When using the CPR sensor inside a manikin, you may need to calibrate the CPR sensor to allow for chest variances.

1. Connect and choose the sensor you want to calibrate.
2. Select «CPR Module in Manikin» and it will show the calibration screen.

You can calibrate using one or two sensors.

For **single sensor calibration**:

1. Place the mounting bracket inside of the manikin as close to the center of the chest as possible and insert the CPR sensor.
2. Prepare the manikin for CPR.
3. Press «Single-Band Calibration» and «Start Calibration»
4. Compress the chest to the recommended depth.
5. When complete, press «Set Sensitivity».



For **dual sensor calibration**:

1. Place one sensor inside the manikin.
2. Place the second sensor in the CPR pad.
3. Select «Dual-Band Calibration» and follow the process as above.



4.5. Lower function banner



4.5.1. Time

The chronograph tells you how long the scenario has been running. When you stop the scenario it resets to zero.


4.5.2. Alarm

The timer counts down the time allocated for the scenario. You define the allocated time when creating the scenario (*please refer to chapter 5.1.*).

4.5.3. Flag

This function allows you to mark an event during the scenario for debriefing purposes. You have the option to use a preset comment or intergrate your own text.

To mark an event:

1. Press the  button.
2. Choose the fitting marker or add your own free text through the text box.
3. Confirm by pressing «FLAG».

4.5.4. Start/Stop/Pause

Allows you to start, stop and pause the scenario.

4.5.5. Virtual time




With this slider the time can be advanced during the scenario. The time will also be deducted from the remaining time under «Alarm». Can be used, for example, when you want to count down time if the trainee verbalizes a time-consuming action without being able to perform it.

4.5.6. Trend function



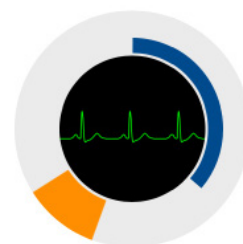
It allows you to trend the change of a physiological parameter over a given time.

To use this function:

1. Select the desired time it should take to change the vitals using the «+» and «-». It ranges from 10 seconds up to 15 minutes.
2. Modify the desired parameters (e. g. the saturation should drop to 94 % over the next 5 minutes)
3. Press  to activate the trend.

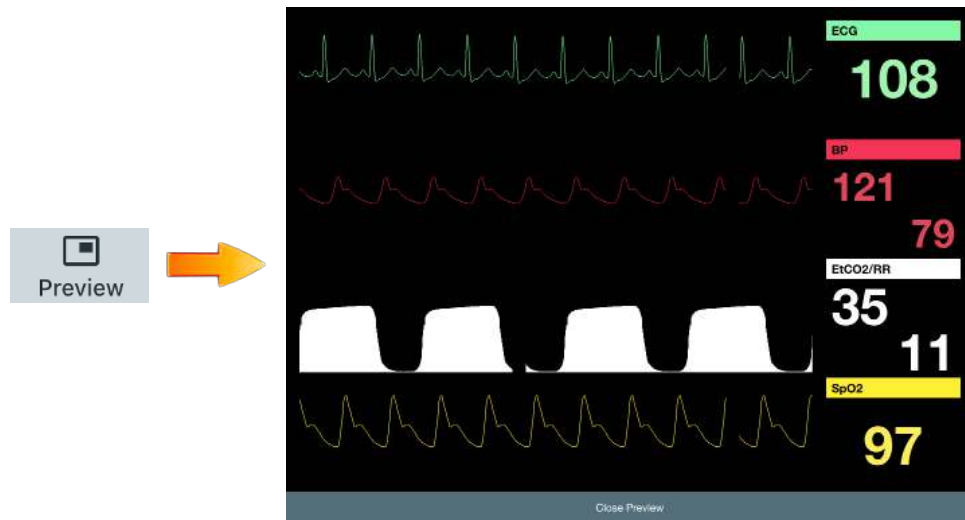
You will get visual feedback via a blue line slowly circling around the center of the parameter you chose to manipulate. That way you can follow the progress of the trending changes.

To stop the trending process, press and hold .



4.5.7. Preview

This allows you to have a simplified preview of the patient monitor on the controller tablet. The appearance of this preview screen cannot be changed.



To return to the REALiTi controller screen, press «Close Preview».

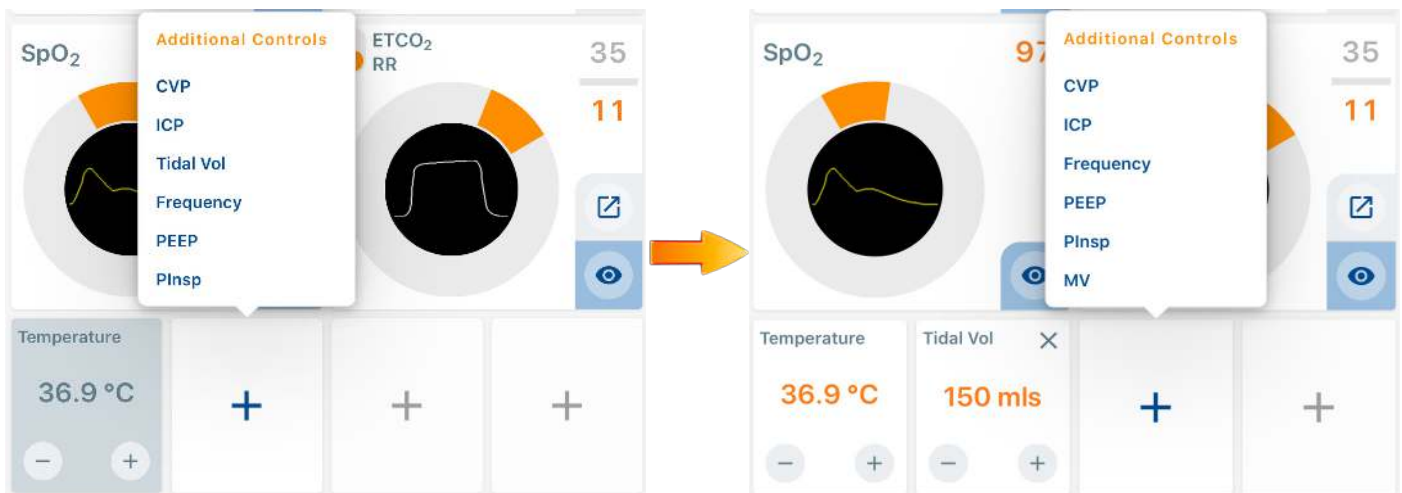
4.6. Additional features

It is possible to display additional physiological values. By default only the temperature option is present on the controller display.

To display the parameter, simply press it - which makes the greyed-out window turn white and the setting will be displayed on the monitor.

To add additional parameters:

1. Select one of the three fields, which will make a list pop up.
2. Choose the needed data (ICP, CVP, MV, PAP, Glucose, Tidal Volume and more) and the corresponding value.
3. Display it to the screen by pressing on it.



To delete it, press the «X» in the top right corner, to hide it, simply tap on it again.

Please be aware that additional parameters display is not possible (or only in part) in all premium screens. The generic iSimulate ALSi screen allows all parameters to be displayed.

4.7. System features

4.7.1. Monitor features - Monitor

This menu allows you

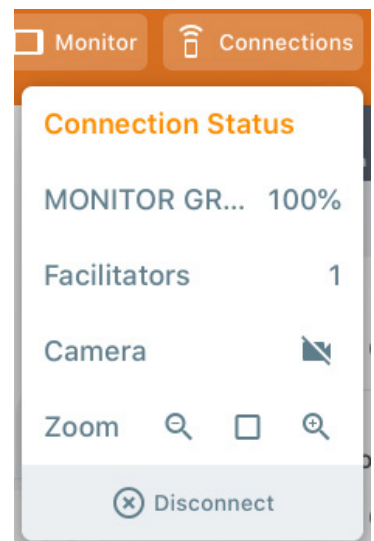
- to start the monitor (should the trainee not do so) by using the «Power On» button.
- to change the appearance of the screen by pressing on the monitor icon and selecting your desired monitor.
- to show the ventilator (WORK IN PROGRESS).



4.7.2. Connections features - Connections

This menu


- displays the battery level of the connected tablets.
- indicates the number of controller tablets connected to the monitor.
- activates/deactivates the recording function of the video tablet.
- allows you to adjust the digital zoom level of the video tablet.




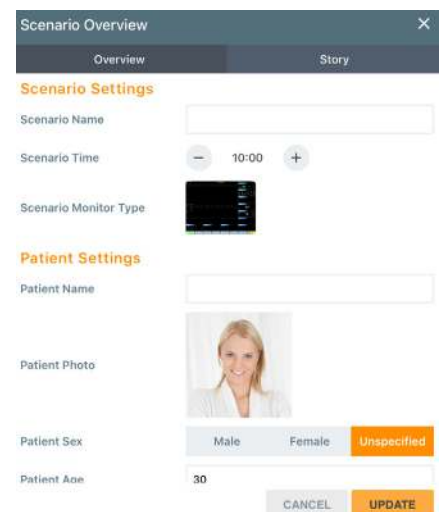
5. HOW TO USE SCENARIOS




5.1. Create scenarios

Scenarios can be created, modified, sent and deleted from the controller tablet.

To access, press the  icon at the top left of the screen to display the scenario menu.

1. Choose «New Scenario» - you will be forwarded to the initial control screen without any values.
2. Tap on the  symbol to access the scenario overview details. Define initial information like scenario name, time, monitor type, patient information (sex, age, condition etc.) and even a whole self-written story to complete the specific scenario.

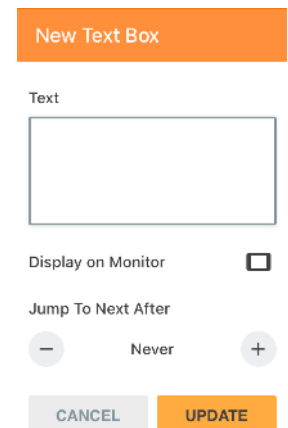


By choosing  you can add the first step to your scenario by either choosing an action step () or a text box (.

Text box:

If chosen, the «New Text Box» window appears:


1. Enter the desired text in the box.
2. Choose if the text should be displayed on the monitor, if yes then if in fullscreen or not, and for how long.
3. Decide how long the transition to the next step should take, i. e. how long the text should be on the screen.
4. Confirm by pressing **UPDATE**.

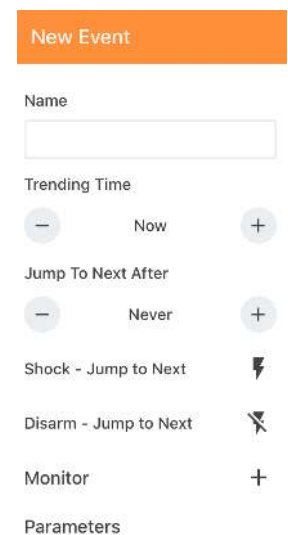


The «New Text Box» dialog box has an orange header. It contains a text input field, a checkbox for «Display on Monitor», a dropdown for «Jump To Next After» with a minus button on the left and a plus button on the right, and two buttons at the bottom: «CANCEL» and «UPDATE».

Action step:

If chosen, the «New Event» window appears:

1. Enter the name of the step.
2. Turn off any parameters you don't want to show by pressing .
3. Set the parameters with the dials.
4. Select the waveforms and desired additional details.
5. Add checklists, media, labs.
6. Once finished, press **UPDATE**.



The «New Event» dialog box has an orange header. It contains a name input field, a «Trending Time» section with a minus button, the text «Now», and a plus button. Below is a «Jump To Next After» section with a minus button, the text «Never», and a plus button. There are two rows of checkboxes: «Shock - Jump to Next» and «Disarm - Jump to Next». At the bottom, there are checkboxes for «Monitor» and «Parameters».

Work your way through the whole scenario by adding steps as you see fit, deciding what should happen exactly when and how.

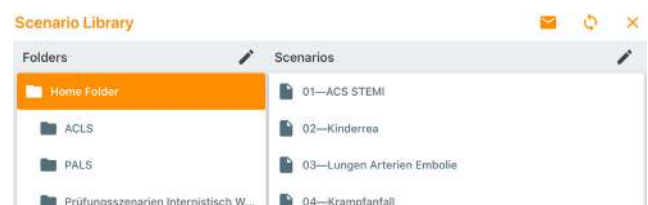
5.2. Delete, copy and share scenarios

In REALiTi360 it is possible to organise your scenarios into directories, duplicate scenarios or share them with other users.

Open the main menu () and press  to display the scenario library:

There you can



- ≧ create, delete or rename folders
- ≧ delete scenarios
- ≧ share scenarios



5.3. Import scenarios

You can also import scenarios that others have created.

To do that

1. either start the app fresh or «Exit to Menu» under .
2. Once you are in the main menu, open the Community via .
3. Enter your login details, select the «Scenarios» tab on the left and download the scenario you want to use from the list available.
4. The scenario is saved into your scenario library - to organize them, please refer to '5.2. Deleting, copying and sharing scenarios'.




5.3.1. By mail

Ensure that the email has been received in the iPad's 'Mail' application.

1. Open the mail that includes the scenario and press and keep your finger on the scenario-icon.
2. In the now appearing window you can select to copy the scenario to REALiTi.
3. You'll receive feedback on screen when the scenario was imported successfully.

5.3.2. Directly from another iPad

Please make sure that both iPads are connected to the same Wi-Fi network.


1. Open the REALiTi360 and select the «Control» mode on both tablets.
2. On the main screen, press  to display the menu and get to the scenario overview by choosing .
3. Select  on both iPads to start synchronisation mode (the top bar will turn orange to indicate that).
4. On the sending iPad tap on the selected scenario - a «Sending Data» window pops up.
5. A similar window will open on the receiving iPad - confirm by tapping «ACCEPT».
6. After a few seconds, the scenario will be loaded and ready for future use.



5.4. How to use scenarios

Once created or imported, the scenarios are ready to use for your training.


5.4.1. Choosing a scenario




1. Open the app and choose «Controller»
2. Enter student information (optional)
3. Choose a scenario from the list
4. You can always reaccess the scenario list by using  when in the main controller screen.

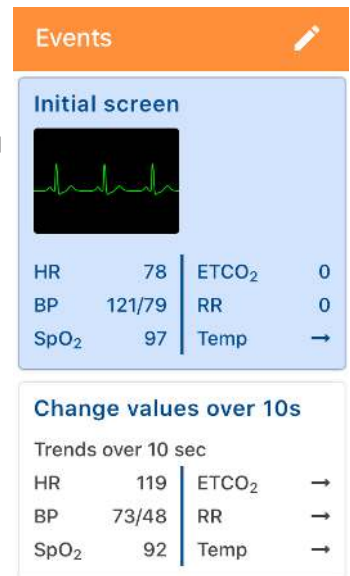
5.4.2. Navigation in a scenario

When creating a scenario, it's possible to either create conditional steps to move to the next one, or to do it manually. To switch from one step to the other, simply tap on the step you want to go to. The active step is always highlighted by a blue background.

5.4.3. Scenario editing


To edit an existing scenario, press  to display your options. You can:

- add steps to the scenario by pressing .
- duplicate a step of the scenario by pressing  and selecting the step you want to have duplicated.
- move the steps by pressing and holding  while moving the element.



6. USING THE DEBRIEFING FUNCTION

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

1. At the end of the simulation, press .
2. Confirm the exit by choosing «YES».
3. The debriefing window is displayed.

6.1. Overview of the results

The upper banner of the debriefing panel shows the results obtained according to expected actions you have set up in the scenario (*please refer to chapter 4.3.1.*).

6.2. Controlling video playback

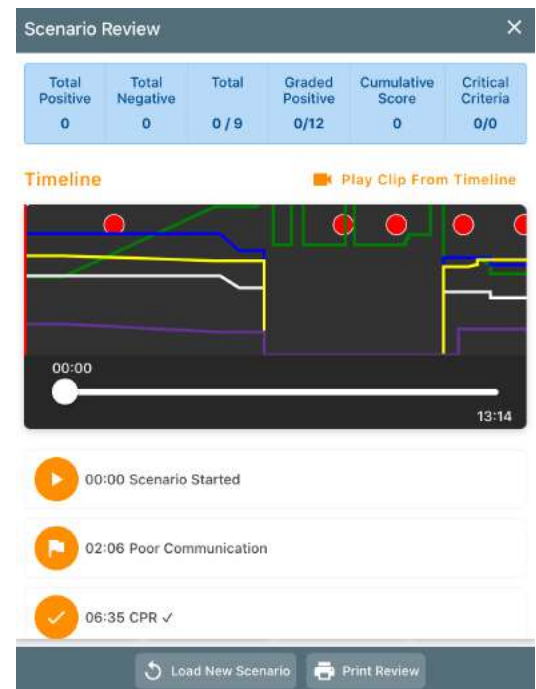
 **Play Clip From Timeline**

(Please refer to chapter 8.3.3.)

6.3. Timeline

Shows the vital parameters as well as important events over the course of the training:

- ▶ The red dots symbolize flagged events.
- ▶ The green curve shows the heart rate.
- ▶ The blue curve shows the trend in systolic / the white curve in diastolic blood pressure.
- ▶ The yellow curve shows SpO₂.
- ▶ The purple curve shows the trend of EtCO₂.



6.4. Review

Below the timeline all validated expected actions, evaluations or tags are chronologically listed. When using debriefing with the Video-Feedback module, it is possible to start video playback from there as well.

The complete debriefing report can be saved using «Print Review» and is available in the iSimulate TMS (*please refer to Chapter 9*).

7. USING THE PATIENT-CHART

Depending on the device you use to open REALTi360, the options are different:



Staging



Control



Chart



Camera

On an iPad Pro 12.9" you can select between:

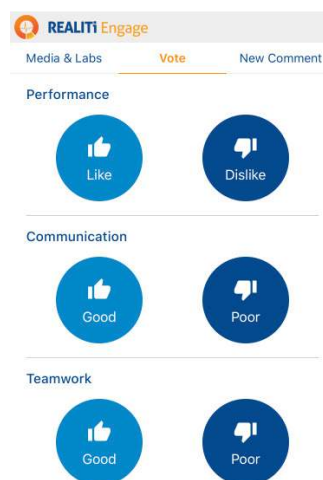
- ✓ Monitor (Staging)
- ✓ Control
- ✓ Chart
- ✓ Camera

On an iPad 9.7" or 10.2":

- ✓ Control
- ✓ Chart
- ✓ Camera

On an iPhone:

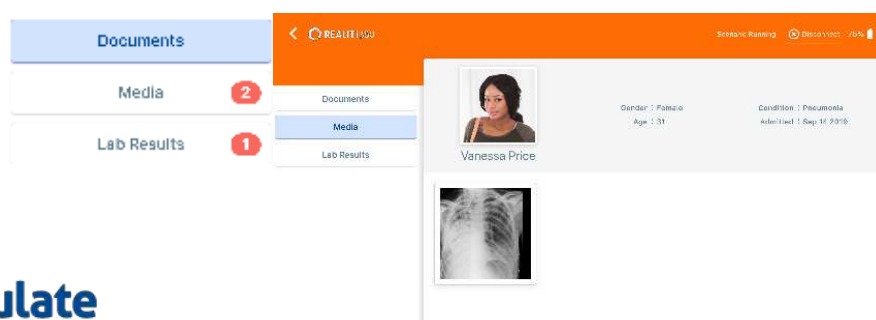
- ✓ REALTi Engage



To use the «Chart» function you need to have an additional iPad. All types are compatible with this feature.

7.1. Viewing documents

1. Open REALTi360 and select the «Chart» mode.
2. Connect to the corresponding monitor.
3. The chart screen appears, patient information is automatically updated.
4. On the left side of the screen there are three categories (Documents, Media, Lab Results).
5. When a document (ECG, X-ray, CT, labs) is sent to the chart from the controller, it shows up highlighted.
6. Simply press the desired document to view.



8. USING THE VIDEO-FEEDBACK MODULE

The video functions require the activation of the Video-Feedback software option for your REALiTi system as well as the acquisition of the corresponding Video-Feedback hardware.

8.1. Hardware set-up

The Video-Feedback module relies on the use of the recommended iPad video hardware - Padcaster.

1. Insert the iPad into the mounting frame - the camera lens should align with the corresponding holes.
2. Carefully screw in the wide-angle lens into the mounting frame.
3. Connect the adapter for the microphone and (if used) the external speaker. The cable has icons for microphone and speaker.
4. Fix the microphone to the Padcaster and connect to the adapter.
5. Set up the tripod as needed.
6. Turn on the microphone, the iPad and the speaker.



8.2. AppleTV installation

The video kit is shipped with a pre-configured AppleTV on your REALiTi Wi-Fi network.

Connect the supplied HDMI cable to the display or projector you want to use for viewing the stream. Plug in the power cable and wait for it to start.

8.3. How to use the video function

Please make sure that the camera iPad is connected to the Wi-Fi network of your REALiTi system.

8.3.1. Recording a training session

1. Turn on the iPad camera and open the REALiTi360 app.
2. Select the Camera function and connect to the corresponding monitor.
3. The real-time video display is visible on the screen. Find the right angle and view for your video using the tripod.
4. Recording will start and stop corresponding to the scenario via the Controller.


8.3.2. Visualisation of the simulation

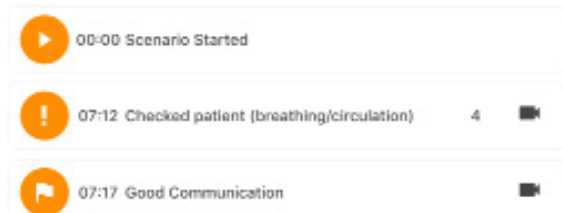
Thanks to AppleTV you can broadcast the video live - including the vital parameters and the waveforms shown.

Swipe inward from the upper right corner of the screen on the video tablet and choose «Screen Mirroring». Select your AppleTV to start the broadcast.
To stop, proceed in the same way by de-selecting AppleTV.

8.3.3. Video debriefing




Once the simulation is complete and the scenario is stopped via the Controller tablet, the camera screen turns black.

1. To play the video on an external screen or projector, please refer to chapter 8.3.2.
2. The review window appears on the Controller (*please refer to chapter 6.3.*).
3. Pressing  **Play Clip From Timeline** starts the review.
4. Playback will start at the beginning of the scenario - you are able to scroll through the timeline to go to the desired sequences as well as pausing or stopping the video.
5. You can also jump directly to the sequences that you have flagged during the training.



9. TRAINING MANAGEMENT SYSTEM (TMS)


The iSimulate TMS allows you to access a detailed and complete report for each training. With this individualised document it will be easier for you to establish a follow-up for each trainee. The generated reports can be exported as .pdf files or stored digitally.

1. At the end of the simulation, press «STOP» in the lower banner of the REALiTi Controller.
2. Confirm the exit of the scenario by pressing «YES»
3. The review screen appears (*please refer to chapter 6.3.*) - press  at the top left of the screen.
4. Select  Exit to Menu, and once on the home page select .


IMPORTANT

In order to get an individualized report, the trainee's name and details must be entered upon scenario selection.

 Scenarios

 Students

 Launchpad

 Options

9.1. Scenarios

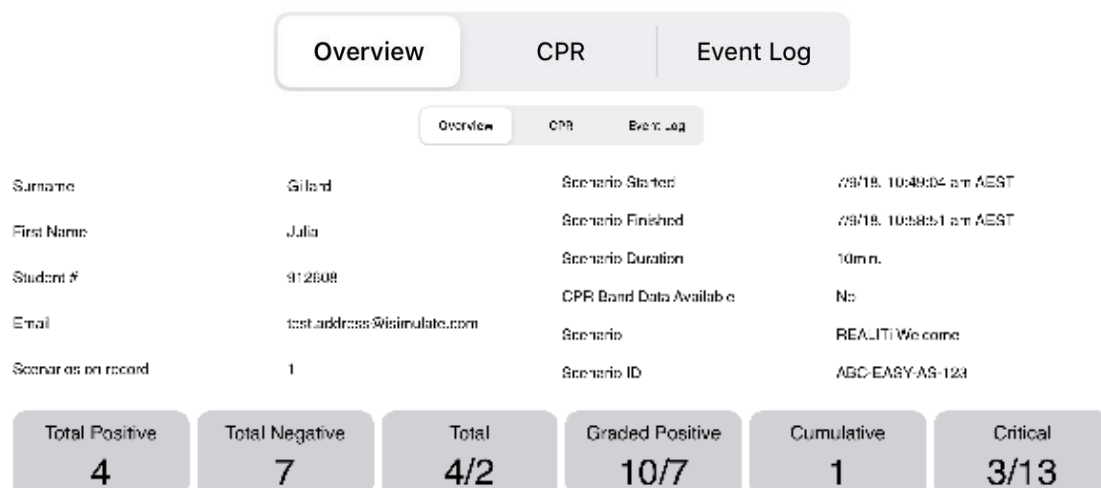
Opens the scenario dashboard where you find all completed trainings. You will be able to review or delete them.

9.1.1. Deleting a scenario

On the main page, swipe the chosen scenario from right to left to display the «Delete» icon.

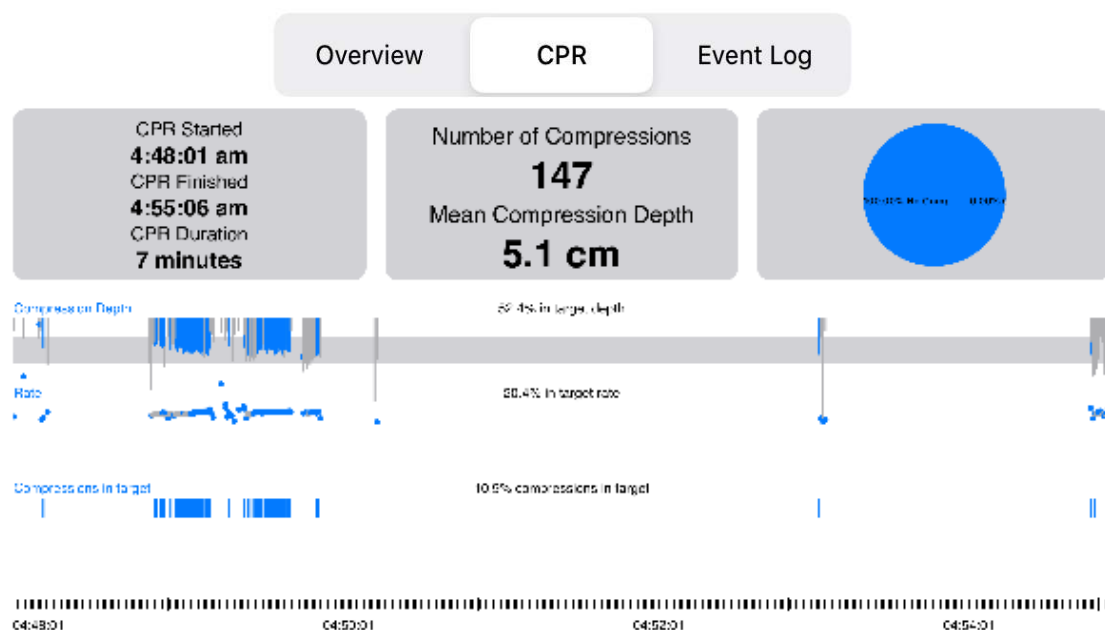
9.1.2. Review of the report

Select the scenario you want to review by tapping on the corresponding line. The report is displayed by default on the «Overview» page.



Please refer to chapter 6.1. for information on the correspondence and dependency between the different values.

Summary of cardiopulmonary resuscitation (CPR):



Summary of events and assessments:

Overview

CPR

Event Log

- 00:00 Scenario Started
- 00:00 Camera turned on
- 00:25 Poor Performance
- 00:28 Patient Assessment Done?

Functions of the lower banner:

Delete

Rename

De-Identify

Video

PDF

Delete: allows you to delete the report being viewed.

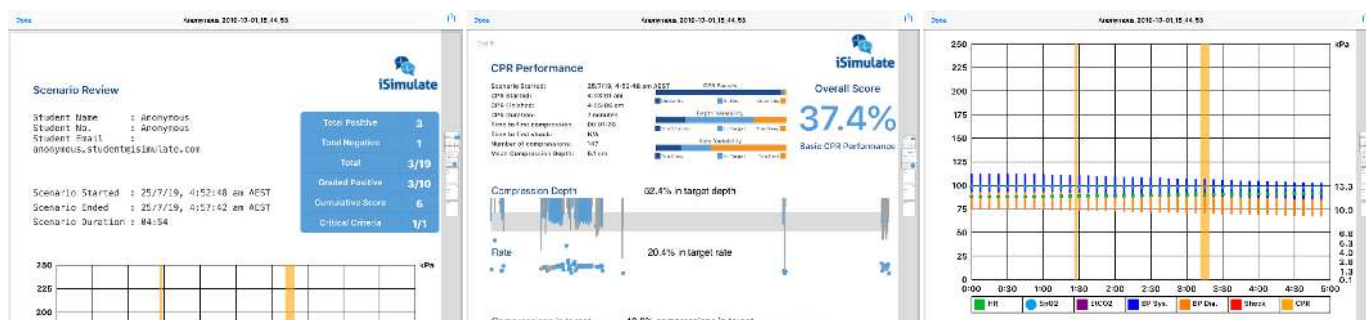
Rename: allows you to rename the scenario.


De-Identify: allows you to anonymise the scenario (the name will be deleted).

Video: allows access to the video debriefing.

PDF: creates a report in .pdf format.


9.1.3. PDF simulation report



You can send the report to an email address or via AirDrop. Press  to share the file and select the method you need.

Ensure that there is an internet connection for the tablet. You might have to change networks for that.
(Please refer to chapter 2.2).

9.2. Student management


Access the student management system by pressing  **Students** in the lower function banner. By tapping on the students, the corresponding window will open. You will find further details and can also transfer them to the Launchpad.

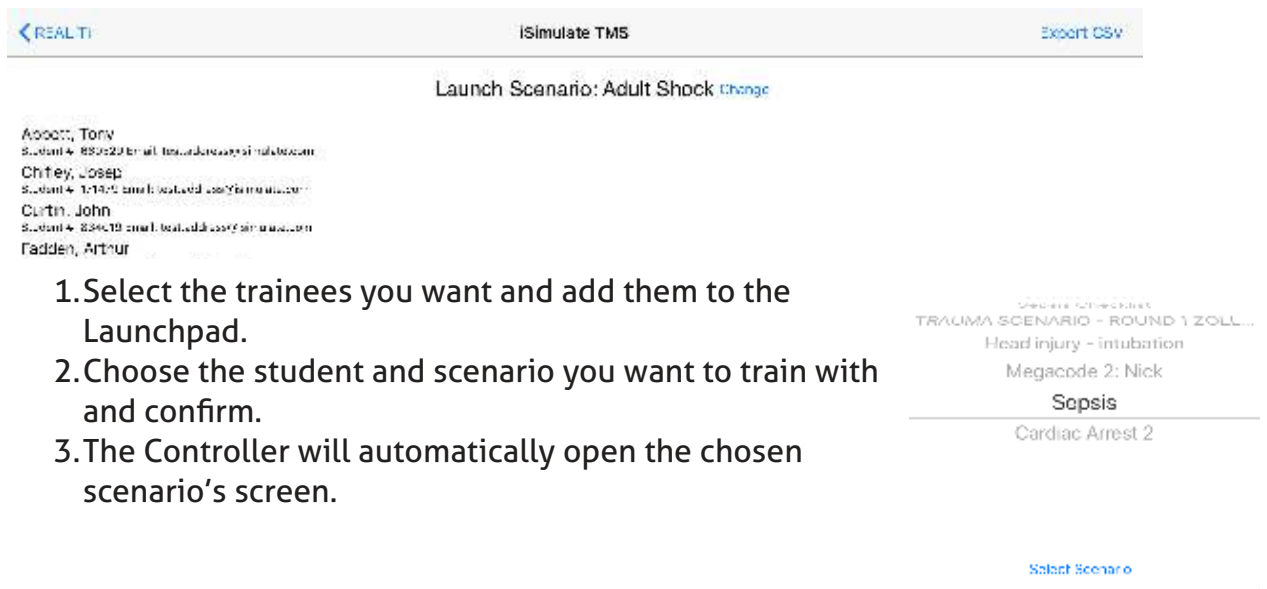
IMPORTANT

The student management function does not allow to modify the student information. The initial information must therefore be rigorous and detailed (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 information.


By pressing the  Launchpad icon, the following window appears:



1. Select the trainees you want and add them to the Launchpad.
2. Choose the student and scenario you want to train with and confirm.
3. The Controller will automatically open the chosen scenario's screen.

9.4. Options

In this menu you can customise the reports by inserting your organisation's logo.

1. Select  Options in the lower banner.
2. Select your logo from the library of the tablet.



10. USER LICENSE UPDATING

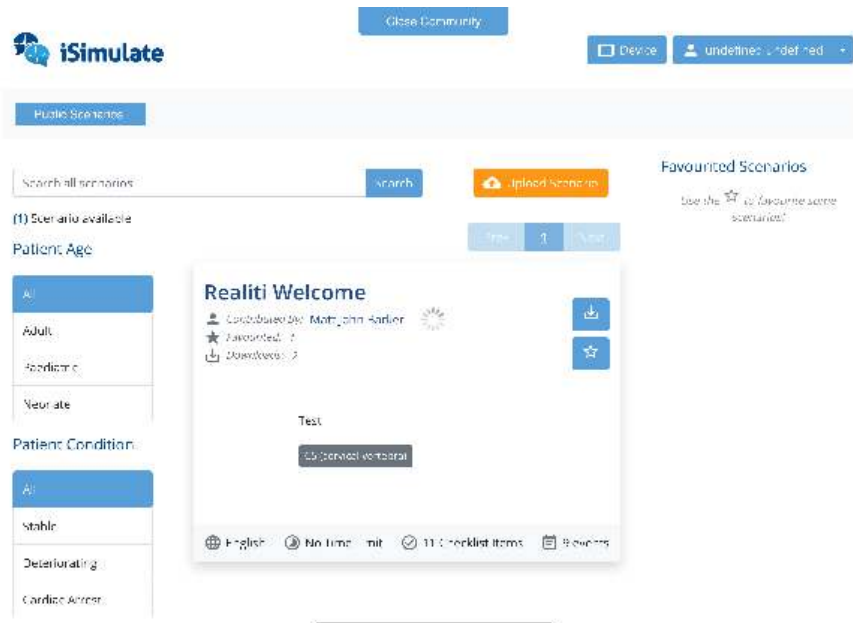
The REALTi license is activated by iSimulate. Each license is assigned to a single REALTi package. The license number is to be entered on the iPad Pro of the Monitor only. You must be connected to the internet to activate your license.

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

10.1. Access the COMMUNITi

1. Open the REALTi application.
2. Select "Community" on the home screen of your monitor tablet.
3. Enter your login details.
4. The iSimulate-Online page appears.



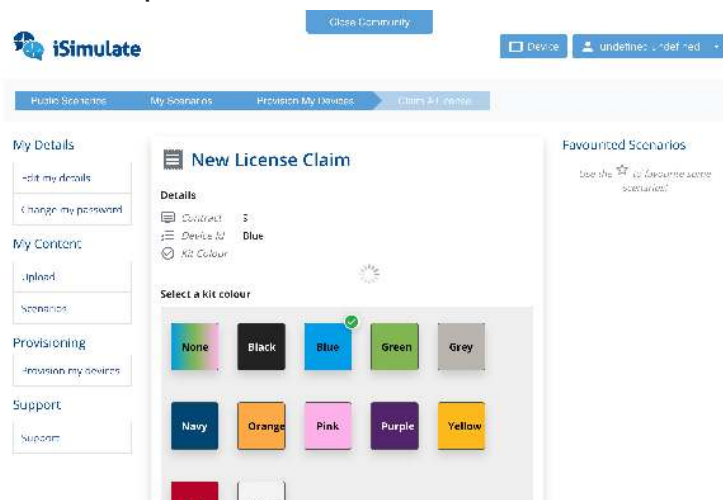



When you forget your password, you can request to send it to the email address of your iSimulate Online account.

10.2. Activating a license

Once connected to iSimulate-Online, select the «Provisioning» option to display a list of your licenses.

1. Choose  **Claim** to open the «New License Claim» window.



2. Select the color of your kit from the list as identified by the luggage tag on the case.
3. Enter the serial number of the iPad:
 - Go to the iPad-Settings > General > About
 - There you will find the serial number
 - Either copy it or write it down
4. Press  to claim your license.

10.3. License release

If, for any reason, you replace your monitor tablet, you must first relinquish the license of the old iPad before assigning it to the new one.

Once connected to iSimulate-Online, select the «Provisioning» option to display your licenses.

Press «Relinquish» and confirm.

10.4. Exiting COMMUNITi

Quit iSimulate-Online by double-tapping the REALTi logo



Confirm by choosing «Close Monitor».

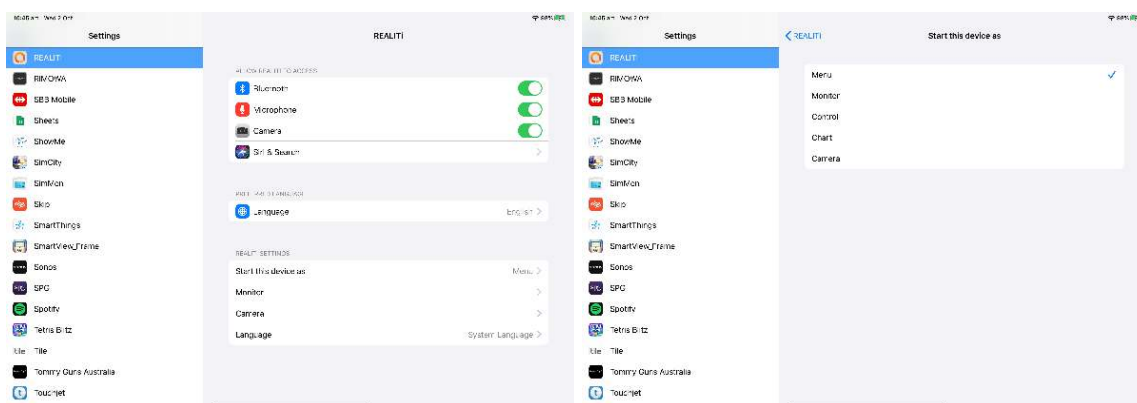
You will be returned to the main screen.

11. ADVANCED SETTINGS

Although the iSimulate systems are very easy to use it is possible to adjust many different parameters. This section is intended for experienced users who have perfect knowledge of the use of REALTi.

11.1. Controller-/Video-/Chart-Tablet

Go to the iPad-Settings and select REALTi from the list on the left.



Ensure that access to Bluetooth, Microphone and Camera are on.

The option «Start this device as» allows you to define the default operating mode when opening REALTi:

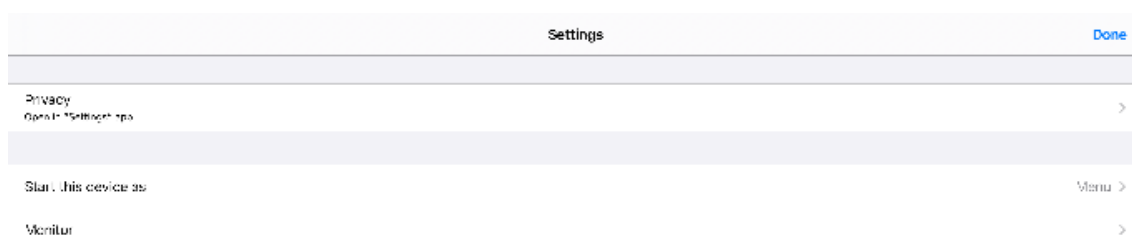
- **Menu** - displays the home page allowing you to choose functions
- **Control** - Controller mode
- **Chart** - Patient-Chart mode
- **Camera** - Camera mode
- **Staging/Monitor** - are only possible on the iPad Pro 12.9" monitor tablet

«Camera» allows you to adjust the recording quality of the camera iPad.

The «Language» option lets you select the default language of the REALTi app.

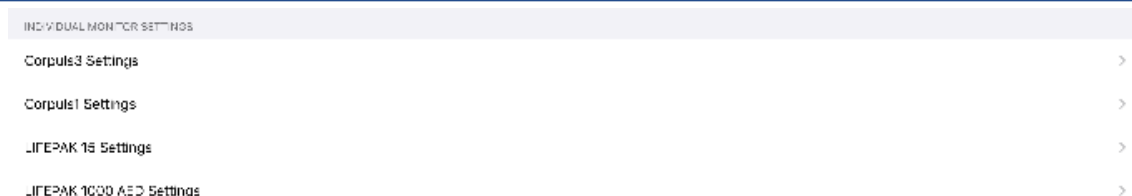
11.2. Monitor-Tablet

Open REALiTi and then, on the main screen, select the «Settings» option:



1. The «Privacy - Open Settings App» opens the advanced privacy settings in the iPad settings menu.
2. For option «Start this device as» please refer to chapter 11.1. above.
3. The «Monitor» option allows to set the different parameters related to the monitor tablet.

Depending on your license and the «Premium» screens to which you have access, some settings might not be active.



11.2.1. General settings

You can

- ✓ enabled/disable the ability to use a second iPad to simulate a second monitor (copy of the first).
- ✓ copy the default scenarios when starting REALiTi360.
- ✓ enable the display of a pop-up indicating the functions that are not implemented in your system.
- ✓ choose whether or not the 12 lead ECG is immediately displayed without any manipulation on the monitor.
- ✓ enable curve smoothing.
- ✓ access the specific menu of pacing.
- ✓ enable the memorisation of the last frequency value during pacing.
- ✓ activate the memorisation of the last intensity used during pacing.
- ✓ set a default frequency when pacing is activated.
- ✓ set a default electrical current when pacing is activated.
- ✓ set the duration of the cardiac massage period between two analyses in AED mode.
- ✓ enable monitor screen sharing.
- ✓ set the monitor screen sharing port (default: 8080).

11.2.2. Premium screens

Here you can set specific aspects of the premium monitor you use in REALiTi. For example the voice prompts while in AED mode.