

SimConnect – User Guide

Delivery Contents

- SimConnect Interface
- SimCap – Ventilation Flow Sensor (Adult/Pediatric, Neonate)
- SimOxy – SpO₂ Finger Sensor (Adult, Pediatric, Neonate)
- USB-C Angled Cables – 2 pcs



Setting Up the SimConnect System

Step 1: Prepare the Monitor Connection

1.1 Remove the screen bezel of the REALiTi Hardcase.

From the back of the hardcase, unscrew the two screws in the handle using the assembly driver (T-handle tool). This allows the bezel to be removed to gain access to the iPad to change the internal cable with the new USB-C cable supplied.

1.2. Replace the Monitor Cable

First, disconnect the existing short, angled cable connected to the monitor tablet. Then, connect the longer angled cable provided with SimConnect and Remove the monitor tablet case section.

1.3. Reassemble the Hardcase

Place the monitor tablet back into position and securely screw the back cover into place using the assembly driver.

Step 2: Attach Physiological Sensors

Use the following procedure to connect the required physiological sensors to the SimConnect module.

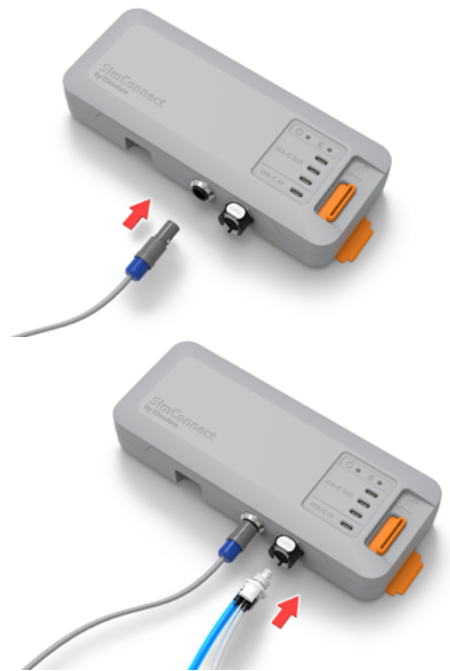
2.1. Attach SpO₂ Sensor (SimOxy)

Locate the port with the finger sensor icon. Align the arrow-shaped part of the sensor with the groove and push until you hear a clear click.

2.2. Attach Ventilation Flow Sensor (SimCap)

Locate the port with the airflow icon. Pinch the side pushers and insert until you hear a click.

Note: To safely detach a sensor, always press the release button first to unlock it before pulling the sensor out. This prevents damage to the connector.



Step 3: Mount and Power the SimConnect Module

3.1. Mount SimConnect

Secure the SimConnect module to the REALiTi Case using the sliding clamp mechanism. Ensure it is properly aligned and firmly fixed.

3.2. Connect to Monitor

Attach the longer angled USB-C cable from the monitor tablet to the top SimConnect Output USB-C port.

3.3. Connect to Power

Use the second angled USB-C cable to connect to the SimConnect Input (bottom) USB-C port. Plug the other end into an external power source (e.g., power bank or wall socket).

Note: If using a power bank, ensure you connect to a 100W output port to provide sufficient power for operation.



Step 4: Establish Bluetooth Connection

4.1. Connect to SimConnect via Bluetooth

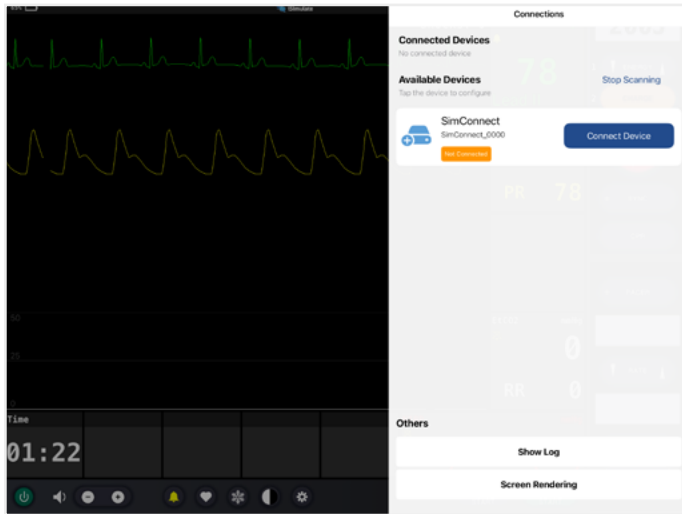
On the REALiTi 360 app monitor screen, swipe inward from the right edge to open the device connection panel. From the list of available devices, select SimConnect to establish a Bluetooth connection. The SimConnect device is now connected and Ready to Use with the REALiTi 360 Monitor.



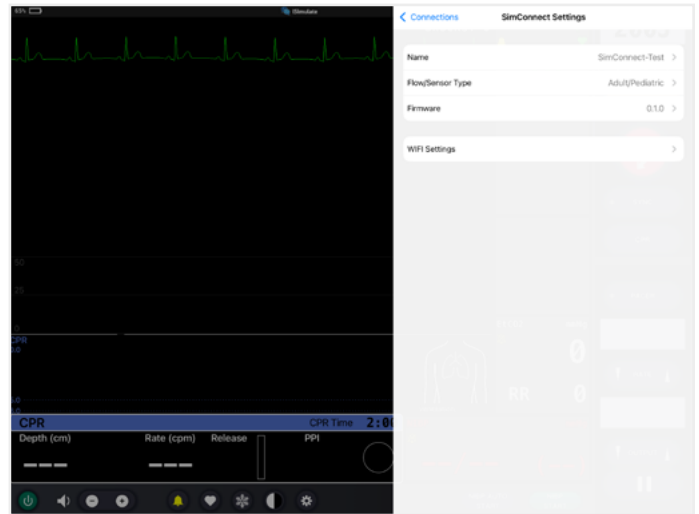
SimConnect Settings Guide

1. Connect to SimConnect via Bluetooth

On the REALiTi 360 app monitor screen, swipe inward from the right edge to open the device connection panel. From the list of available devices, select SimConnect to establish a Bluetooth connection.

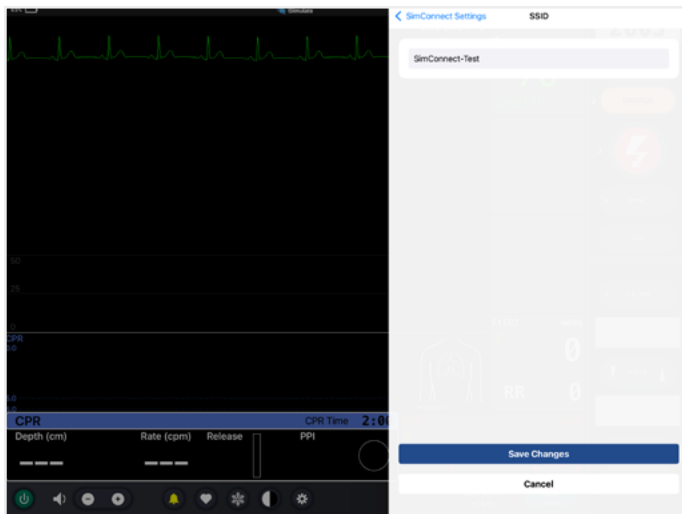


2. Setting



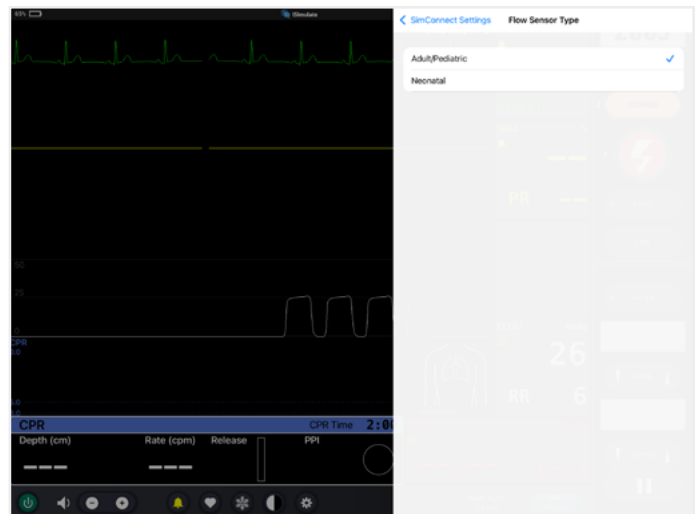
3. Rename SimConnect

You can rename your SimConnect device as needed (up to 16 digits) After entering the new name, tap “Save Changes.”



4. Flow Sensor Type

If you are using SimCap with SimConnect, you can select the appropriate flow meter type to improve ventilation feedback accuracy.



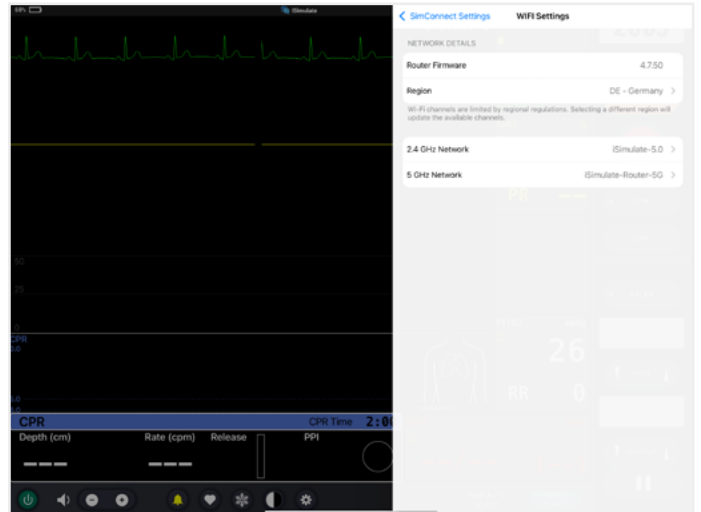
5. Firmware Version & OTA Update

You can view your current firmware version and perform an Over-the-Air (OTA) firmware update directly from the settings menu.



6. Wi-Fi Settings

Note: After powering on the device, please wait at least 45 seconds before accessing the Wi-Fi settings. Accessing the settings too early may prevent them from loading correctly.



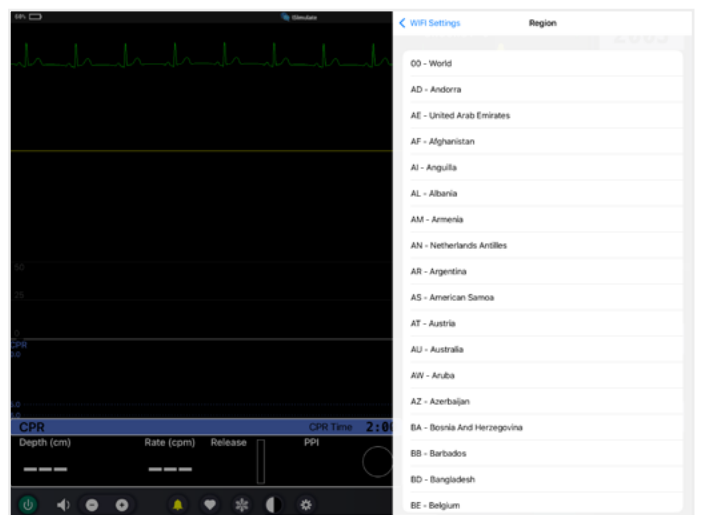
6.1. Router Firmware

Displays the current firmware version of the internal router.

6.2. Region Settings

Select the appropriate region to define permitted router frequency settings according to local regulations.

Note: If you are unsure about these settings, it is recommended to leave them at their default values.



6.3. 2.4GHz Network

a. Default Wi-Fi Setting

SSID: iSimulate-5.0

Password: iSimulate2012

b. Wi-Fi On/Off

Use the toggle switch to enable or disable the 2.4 GHz Wi-Fi network.

c. SSID change

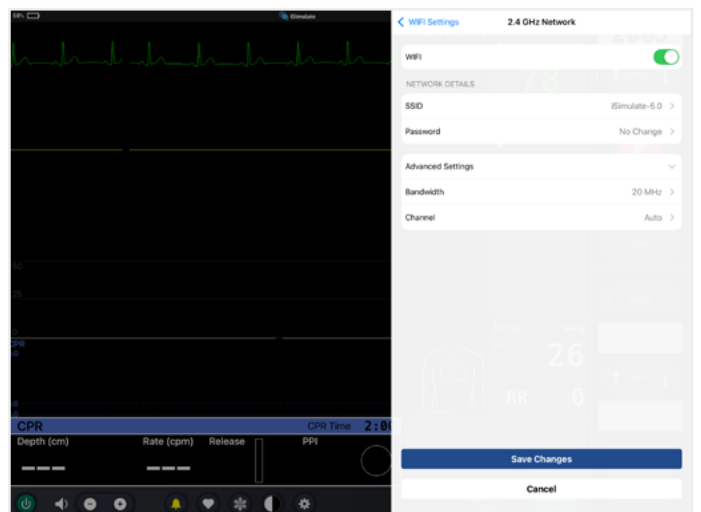
You can change SSID that you want

d. Password

Update the network password

e. Advanced Setting

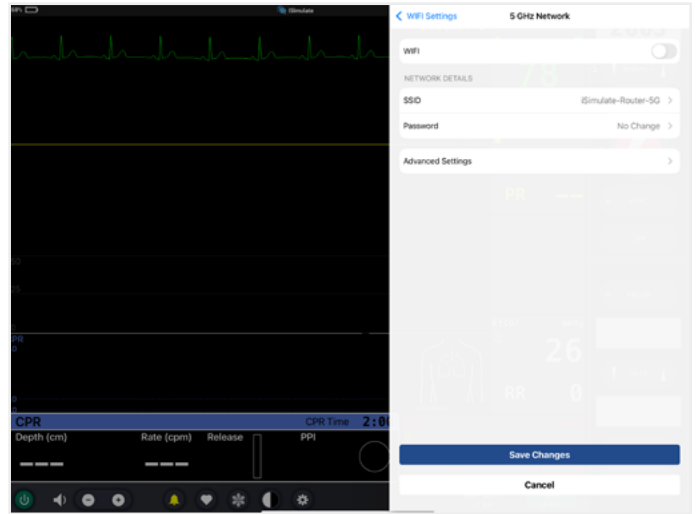
- Bandwidth: Lower values provide better stability, whereas higher values provide higher speeds
- Channel: Can be left on auto for most circumstances, in environments with a large number of WiFi networks, this can be used to select a channel with the least amount of other WiFi networks.



6.4. 5 GHz Network

- a. Default Wi-Fi Setting
SSID: iSimulate-Router-5G
Password: iSimulate2012
- b. Wi-Fi On/Off
Use the toggle switch to enable or disable the 5 GHz Wi-Fi network.
- c. SSID change
NB All devices (including the manikin) must be configured to use the updated SSID/Password
- d. Password
Update the network password.
- e. Advanced Setting
 - Bandwidth: See above
 - Channel: See above

Note: If you are unsure about these settings, it is recommended to leave them at their default values.



Note

- SimConnect includes a built-in Wi-Fi router designed for use with the REALITi 360 system.
- If you plan to use SimConnect as your primary router, please ensure that the REALITi router is turned off to prevent any connection conflicts.

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IF YOU HAVE ANY QUESTIONS OR NEED SUPPORT, PLEASE SCAN HERE



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