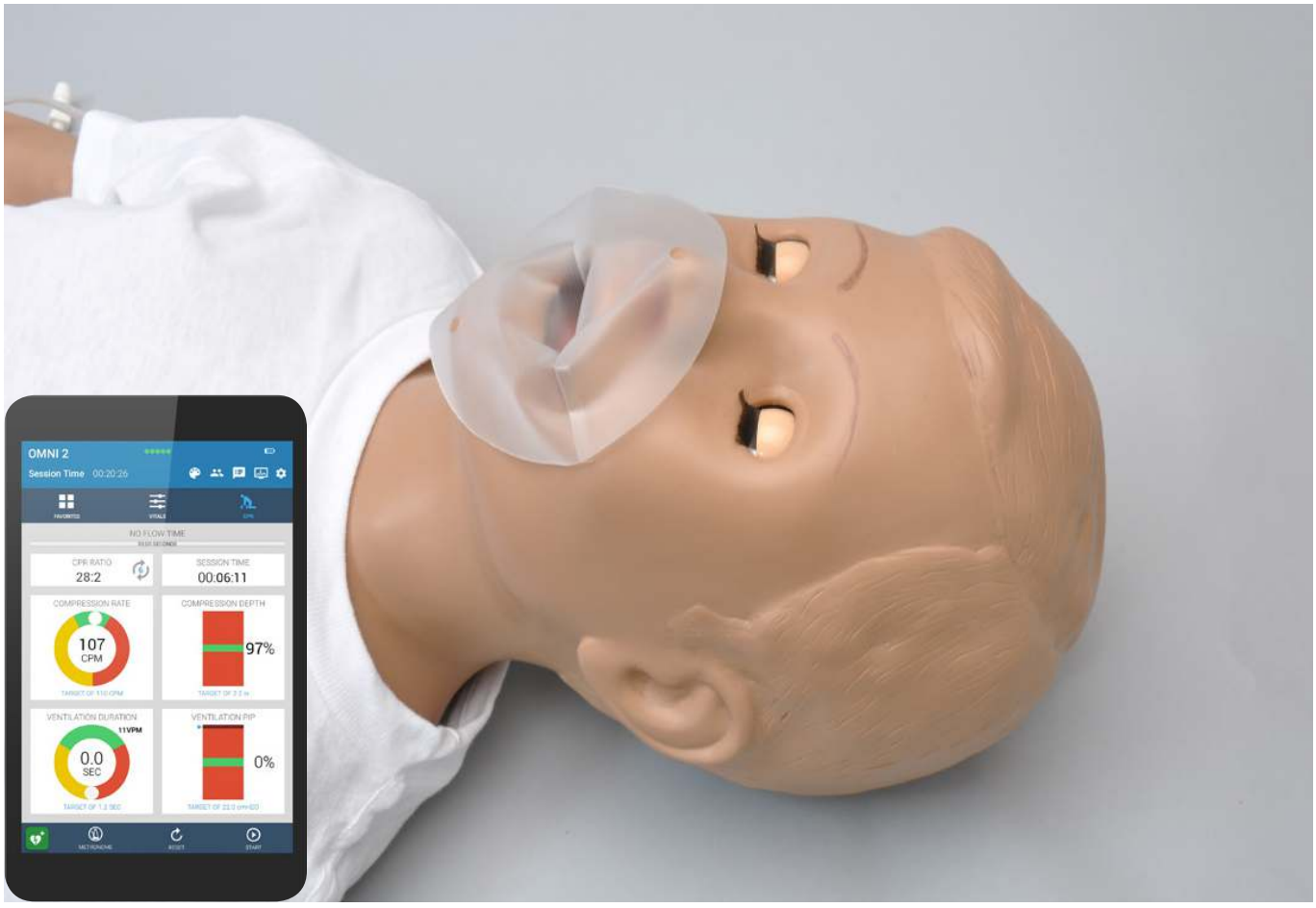
Gaumard®
Simulators for Health Care Education

S154.250

CPR Care Simulator

User Guide



CPR Care Simulator is an interactive educational system developed to assist a certified instructor. It is not a substitute for a comprehensive understanding of the subject matter and not intended for clinical decision making.

User Guide 17.7.1

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1. Introduction

1.1 Care and Maintenance

WARNING: Damage caused by misuse is not covered by your warranty. It is critical to understand and comply with the following guidelines.

WARNING: The lubricants and other accessories provided are for use with the accompanying patient simulator only. The lubricants and other accessories are not suitable for human use or medical treatment/diagnosis and should never be used for such purposes.

General

- Ball point pens, ink, and markers permanently stain the skin.
- Do not wrap this or any other Gaumard product in newsprint.
- Marks made with ballpoint pens, ink or marker cannot be removed.
- Replacement parts are available from Gaumard Scientific or from your Distributor

Operating Conditions

- The simulator will only power on when connected to the AC power supply (if applicable).
- Operating temperature: 50°-95° F (10°-35° C)
- Humidity: 5%-95% (non-condensing)

Storage Conditions

- Store Simulator in a cool, dry place. Extended storage should be between 32-85 degrees Fahrenheit (0-29 Celsius). Other temperatures will cause the simulator to soften and slowly warp
- Humidity: 40%-60% (non-condensing)
- Do not stack or store heavy materials on top of the carton.

WARNING: To avoid damage to the simulator, please store and ship it in the clear poly bag provided.

Procedures

- Do not attempt to intubate without lubricating the airway adjunct with **mineral oil** lubricant. Failure to lubricate the device will make intubation very difficult and is likely to result in damage to the simulator.
- Mouth to mouth resuscitation without a barrier device is not recommended, as it will contaminate the airway.
- Treat the simulator with the same precautions that would be used with a **real** patient.

Cleaning

- The simulator should be cleaned with a cloth dampened with diluted liquid dish washing soap.
- Remove all traces of any lubricant.
- Do not clean with harsh abrasives.
- Do not use povidone iodine on the simulator.
- Dry thoroughly.
- The simulator is “splash-proof” but not water-proof. Do not submerge or allow water to enter the interior of the simulator.

IV Arm

- Only use Gaumard’s provided simulated blood. Any other simulated blood containing sugar or any additive may cause blockage and/or interruption of the vasculature system.
- The use of needles larger than 22 gauge will reduce the lifetime of the lower arms’ skin and veins.
- Always purge with clean water and then drain the vein reservoirs at the end of the simulation session. Doing so will retard the formation of mold and prevent clogging of the system.
- We recommend flushing veins with 70:30 solution of clean water to isopropyl alcohol (IPA) at least once per month to prolong the life of the vasculature.
- When the arm skin and/or veins require replacement, refer to the “Consumables” section of this guide. For more information regarding the replacement of veins and other consumable items please contact customer service.

> **WARNING: Vein tubing contains latex which may cause allergic reactions. Users allergic or sensitive to latex should avoid contact.**

2. Overview

2.1 Features

The S154.250 is a CPR simulator with the following features:

Appearance

- Anatomically correct landmarks for proper hand placement
- Realistic chest cavity
- Lungs and ribs
- Lifelike face/head skin for realistic jaw thrust, head tilt / chin lift

Airway

- Disposable airways
- Natural obstruction blocks air passage when head is tilted forward

Artificial Respiration

- Visible chest rise with bag valve mask ventilation
- Ventilation measured and logged

Circulation

- Intramuscular injection sites on deltoids and quadriceps
- Intraosseous infusion site
- Manual palpable pulses

Venous Access

- Intravenous training arm and hand
- Femoral venous access

2.2 Terminology

Facilitator

The person conducting the simulation; an instructor or lab staff member.

Provider

A person participating in the simulation as a healthcare provider.

2.3 Packing Checklist

- Tube with squeeze bulb
- Adjustable Clamps
- Blood dispensing bag
- Metal stand and base
- Spare I/O leg tibia bones
- Spare right tibia bone cover
- Spare right arm skin
- Mineral oil
- Synthetic blood concentrate

3. Equipment Setup

Unboxing

S154.250 is shipped in a blue carrying case. Remove the clear poly bag and lay him on a flat surface, supporting his head and torso.

> **WARNING: To avoid damage to the simulator, please store and ship it in the clear poly bag provided.**

OMNI® 2 Wireless Connection

OMNI® 2 controls S154.250's responses with the touch of a button. The tablet operates the simulator wirelessly.

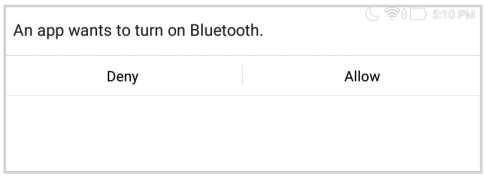
Follow the steps below to connect to OMNI® 2:

1. Connect the power supply to the simulator

> **Always operate the simulator with the power supply connected.**

2. Turn on OMNI® 2 by pressing and holding the ON button on the right side of the tablet.

3. Select "Allow" to turn on Bluetooth for the tablet.

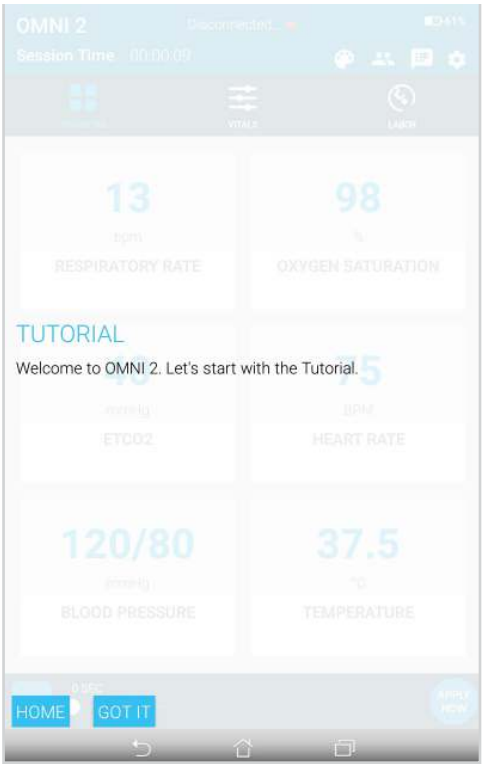


4. A startup screen is shown while OMNI® 2 is detecting the simulator features.

5. Follow the on-screen tutorial for a brief overview of the features of OMNI® 2.

6. Move onto the next steps in the Tutorial by selecting “GOT IT”.

7. Exit the Tutorial at any time by selecting “HOME”.



Please complete the tutorial once or it will continue to appear at start-up.

After the tutorial, OMNI® 2 will proceed automatically to the Favorites page and establish a connection to the simulator.

WARNING: Do not connect the simulator or OMNI® 2 to a computer. LAN network or unathorized diagnostic equipment. Doing so will cause serious damage to the equipment.

4. Using CPR Simulator S154.250

4.1 Airway

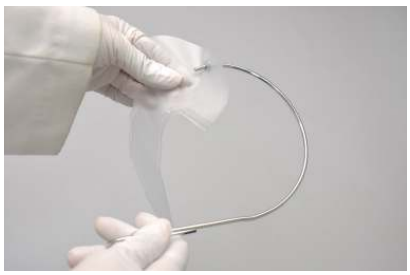
> **WARNING: Always use disposable airways provided by Gaumard Scientific. Products manufactured by other suppliers may have different compliance and/or volume, and are not compatible with the simulator or OMNI.**

Replacing the Disposable Airway

1. Lift the chest skin

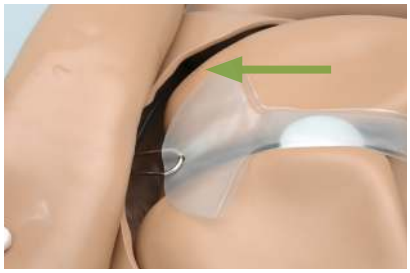
2. Pull the bag out

3. Thread the introducer through the hole at the end of the new disposable airway



4. Tilt the head back

5. Ease the introducer up through the neck



6. Pull the introducer gently through the mouth

7. Unhook the introducer from the disposable airway

8. Straighten the plastic over the mouth and chest cavity

9. Place the over the chest cavity

4.2 Artificial Respiration

Ventilation

Visualize realistic chest rise with BVM or via an endotracheal tube with manual ventilation.

WARNING: Do not perform mouth to mouth ventilation. Doing so may lead to molding of the airway. The airway itself cannot be sanitized or cleaned.

With the OMNI 2, ventilations are measured and logged.

4.3 Circulation

Compression

With the OMNI 2 chest compressions are measured and logged, showing the instructor exactly how facilitators are performing.

Palpable Pulses

The simulator is equipped with bilateral pulses generated by a squeeze bulb.
Palpate the following pulses:

- bilateral carotid
- right brachial
- right femoral

IV Training Arm

The right arm is a training tool for infusion, blood collection, intravenous injection, intramuscular injection, TB screening and subcutaneous injection exercises.

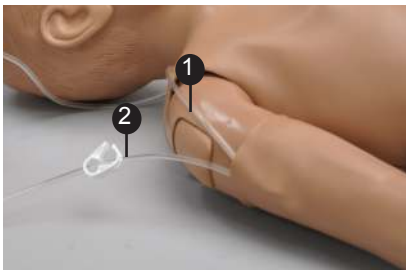
Procedure	Recommended Device Size
IV Access	22 Gauge

The training arm features:

- An intramuscular injection site in the deltoid area
- Simulated cephalic, basilic, antecubital, radial and ulnar veins
- Subcutaneous injection areas on the volar side of the forearm and the lateral side of the upper arm
- Two veins in the dorsum of the hand for additional intravenous training techniques

Filling the IV Arm (Option #1)

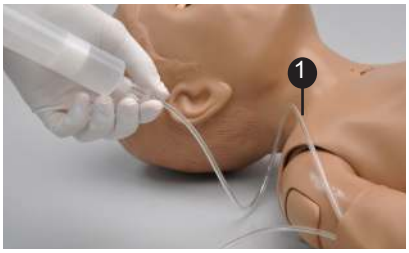
Tube 1: Filling
Tube 2: Drainage



1. Place the end of the drainage hose into a container

2. Open the clamp

3. Fill the syringe with fluid and connect it to **Tube 1**



4. Allow fluid to flow into the drainage container

5. Close the clamp on **Tube 2**

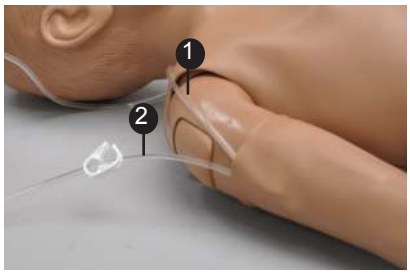
6. Remove the syringe

Filling the IV Arm (Option #2)

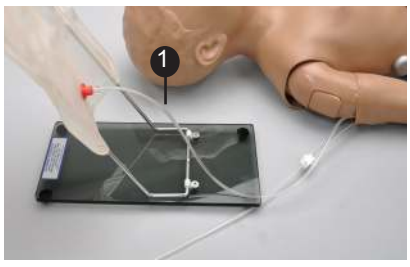
1. Lift the hinged metal stand and support it on the acrylic base.

2. Hang the blood-dispensing bag on the stand.

Tube 1: Filling
Tube 2: Drainage

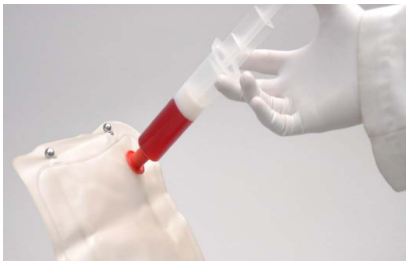


3. Attach **Tube 1** to the bottom port of the bag



4. Close the clamp of drainage **Tube 2**

5. Add fluid to the bag using the funnel or syringe

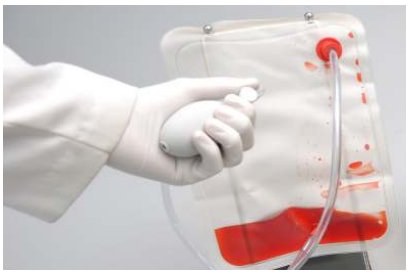


6. Place drainage **Tube 2** inside a drainage container

7. Allow fluid to flow into the drainage container

8. Close the clamp on **Tube 2**

9. To vary the blood pressure in the vasculature of the arm, attach the squeeze bulb to the upper port of the blood-dispensing bag. Inflate the bag slightly



Instructions for Use

Use needles smaller than 22 gauge to extend the life of the vasculature.

For continuous infusions, place the end of the drainage tube into a container and open the clamp.

Cleaning the Vasculature and Replacing the Skin

> **WARNING: Vein tubing contains latex which may cause allergic reactions. Users allergic or sensitive to latex should avoid contact.**

After a simulation is complete,

1. Place a drainage tube in a container and open the clamp of **Tube 2**

2. Drain all fluid from the blood-dispensing bag

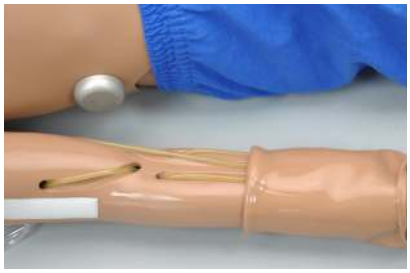
> **If simulated blood is used, flush the vasculature with water then with air.**

3. Then, fill a syringe with air and connect it to filling **Tube 1**

4. Push air through the vasculature to remove the remaining fluid

To replace the arm skin,

1. Gently roll down the arm skin

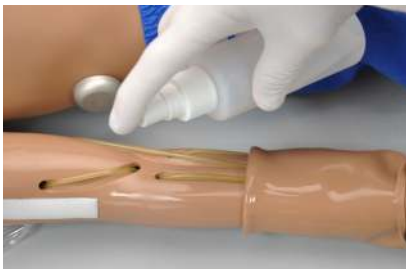


> **Use mineral or powder to ease the movement.**

2. Use a heat gun to warm the replacement skin until material is pliable

3. Apply some baby powder or mineral oil to the arm

4. Insert the arm in the new skin and pull up into place

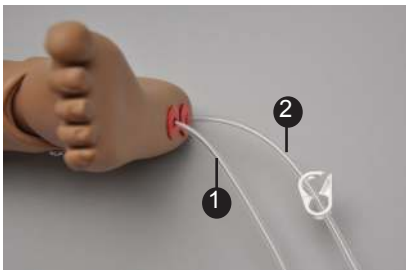


> **The skin of the training arm can be cleaned with a mild detergent, or soap and water. After drying the arm, lightly dust it with talcum powder. This will keep the training arm supple and easy to use.**

Intraosseous Access

To fill the right leg vasculature,

Tube 1: Filling
Tube 2: Drainage

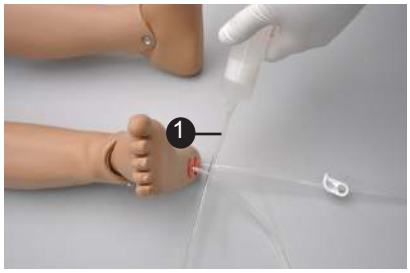


1. Place **Tube 2** in a drainage container

2. Leave drainage clamp open

3. Fill the syringe with fluid

4. Connect the syringe to filling **Tube 1** and push in the fluid



5. Allow fluid to flow into the drainage container

6. Close the clamp

7. Perform the IO exercise

Procedure	Recommended Device Size
Intraosseous Access	17-16 gauge

Flushing the Tibia

After a simulation is complete,

1. Place a drainage tube in a container and open the clamp of **Tube 2**

2. Drain all fluid from the bone

If simulated blood is used, flush the vasculature with water then with air.

3. Then, fill a syringe with air and connect it to filling **Tube 1**

4. Push air through the vasculature to remove the remaining fluid

Replacing the Tibia Bone

1. Ensure that there is no fluid in the bone

2. Remove the tibia cover

3. Pull the tibia bone out

4. Replace tibia bone

5. Re-attach tibia cover

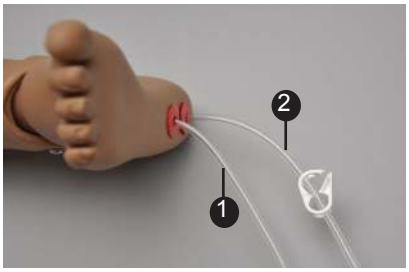
Femoral Access

Supply simulated blood into the right femoral vein and practice cannulation exercises.

Palpate pulses with the the manual squeeze bulb.

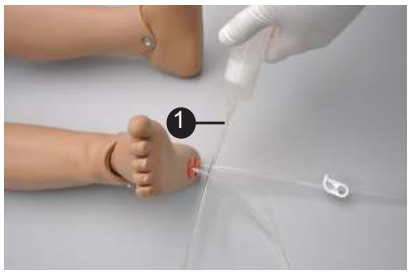
To fill the right leg vasculature,

Tube 1: Filling
Tube 2: Drainage



1. Place **Tube 2** in a drainage container

2. Leave drainage clamp open
3. Fill the syringe with fluid



4. Connect the syringe to filling **Tube 1** and push in the fluid
5. Allow fluid to flow into the drainage container

6. Close the clamp

4.4 Systemic

Range of Simulated Movement

- The arms and legs are soft and rotate within the torso body.
- The joints are strong and their movements are lifelike and realistic.
- The simulator bends 30 degrees at the waist.

4.5 Hospital Care Capabilities

Intramuscular Injection Sites

Administer intramuscular and subcutaneous injections on the deltoids and quadriceps. All injection pads are easily removed and replaced.

Bandaging

The fingers and toes of the simulator are separated to permit bandaging exercises. The surface of the simulator is smooth and resistant to water, oil, and liniments.

Eyes/Ophthalmologic Exercises

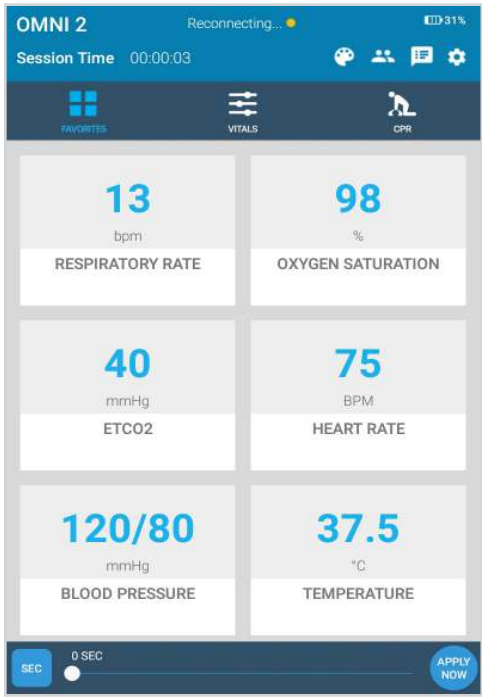
The head has eyes that open and close, permitting the following exercises:

- Administration of orbital medicines into the conjunctival sac
- Removal of foreign bodies
- Eye irrigation

5. Using OMNI® 2

5.1 Main Screen

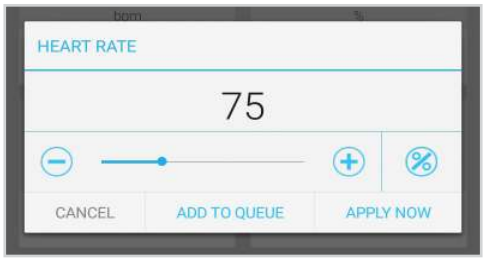
OMNI® 2 opens at the Favorites Page upon start up.



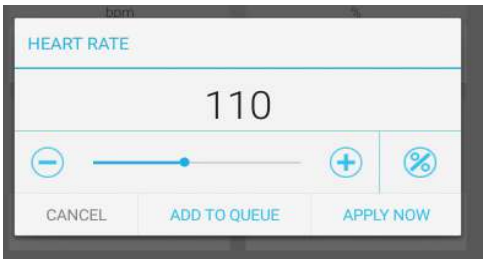
Changing a Vital Sign

In order to change one of these parameters, follow the steps below:

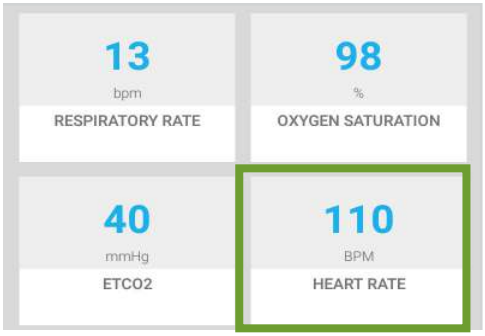
1. Tap on a vital sign.



2. Adjust the value utilizing the +/- icons or the slider dot.



3. Select “APPLY NOW”.



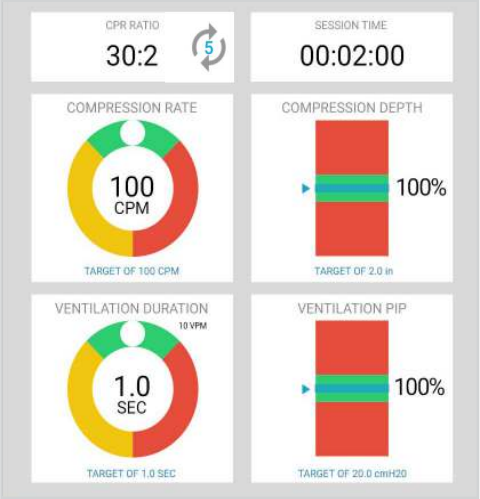
5.2 CPR

OMNI® 2 features a performance evaluator and trainer.

WARNING: Do not perform mouth to mouth ventilation since the simulator airway can be difficult to clean afterwards and will contaminate the airway.

Feedback Graphics

Monitor the CPR session in real time. The CPR value ranges are AHA compliant.



Actions

Buttons	Function
START STOP	Begin and end a CPR session
RESET	Reset a CPR session
METRONOME	Activate an audible coach for training
	Virtually defibrillate the simulator

For more information about the CPR monitoring and reporting, refer to the OMNI® 2 User Guide.

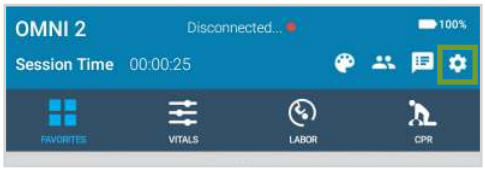
6. Virtual Monitor Setup (Optional)

A patient virtual monitor is an optional purchase with OMNI® 2. Follow the steps below in order to activate this feature:

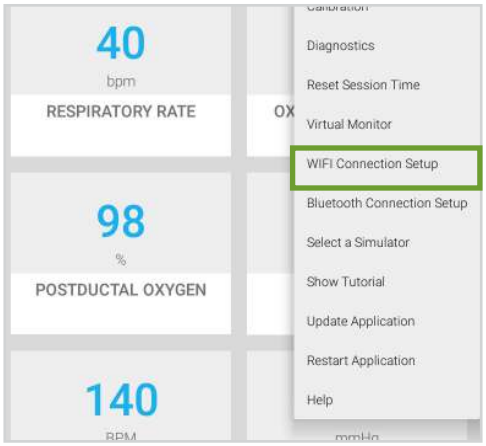
> **The simulator must be connected to the OMNI® 2 tablet in order to establish a connection to the Virtual Monitor.**

1. Connect the provided router to the wall.

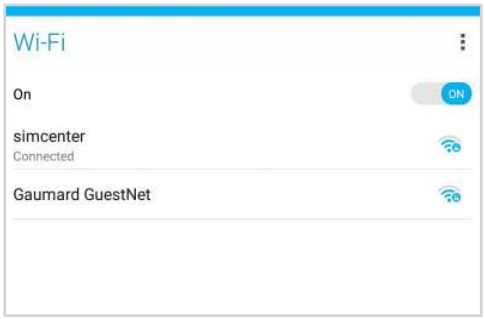
2. Tap the gear on the upper-right of the screen.



3. Select “WIFI Connection Setup”.



4. Connect to a wireless network.

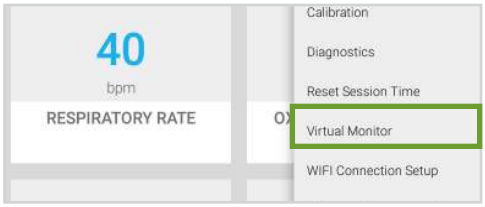


> **The network name will be “GaumardSimulatorSerialNumber”**

5. Exit the page by tapping the back button.

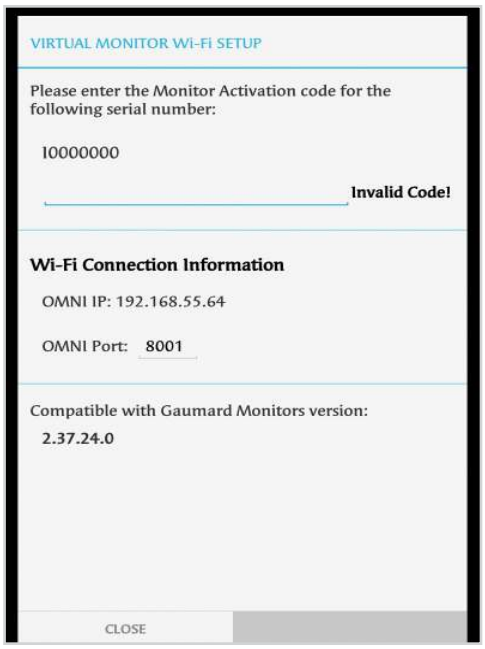
6. Tap the gear on the upper-right of the screen.

7. Select “Virtual Monitor”.



8. Follow steps 9-10 if the activation code was not previously entered.

9. Verify that the serial number corresponds to the manikin.



10. Input a valid activation code.

> **The activation code is case-sensitive.**

> **Note that the activation code above is just an example. It is not a valid code.**

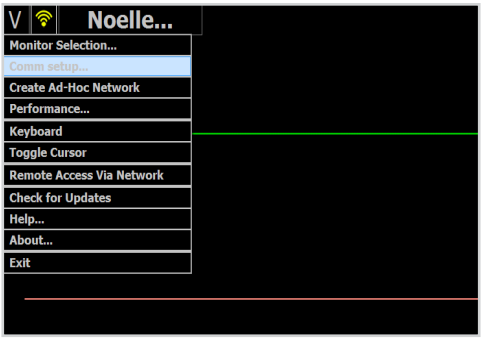
11. Take note of the OMNI IP and OMNI port.

12. Select “CONNECT”.

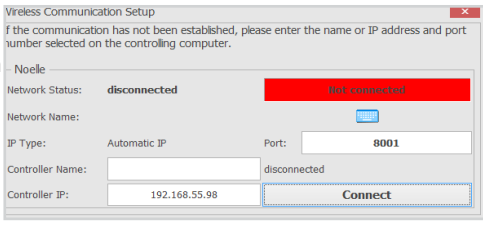
13. On the monitor, connect to the same network as OMNI® 2.

14. Once connected to the WIFI, open the Gaumard Monitors software.

15. Tap the V on the top left and then select “Comm Setup”.

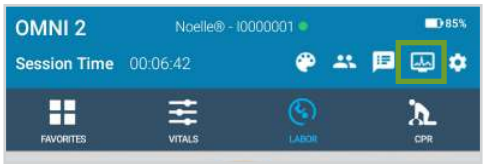


16. Verify that the IP address in the “Wireless Communication Setup” matches the Omni IP and Omni Port noted before.



17. Select “Connect”.

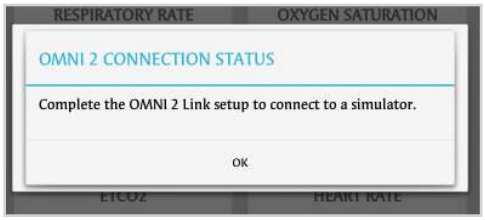
The Vital Signs Monitor icon will appear on the top right when it is connected.



> **For more information on how to use the Virtual Monitor, please refer to the Omni 2 User Guide.**

7. OMNI Link Setup (Optional)

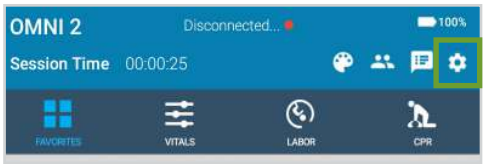
Follow steps 1-5 if the notification below appeared:



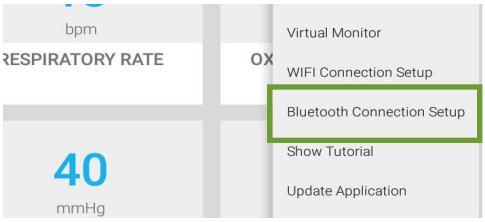
OMNI® 2 has to be paired to a simulator to establish a connection with the simulator.

1. Connect the power supply to the simulator.

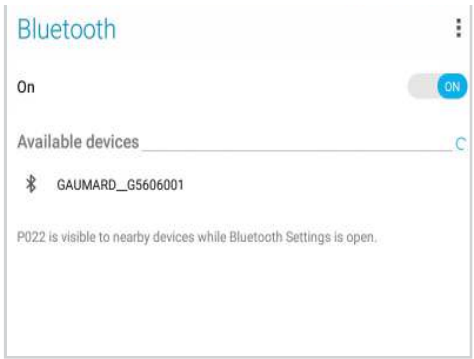
2. Tap the Gear on the upper-right corner of the screen.



3. Tap “Bluetooth Connection Setup”.



4. Select the simulator’s serial number under “Available Devices”.

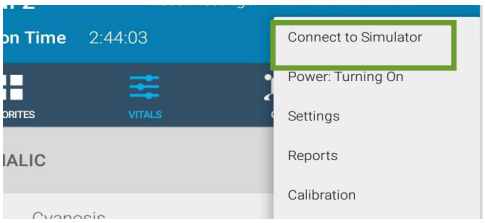


> **The device name will be Gaumard_ SimulatorSerialNumber**

5. Wait for the device to pair with the OMNI® 2. This can take up to 30 seconds.

6. Once paired, tap the back arrow to return to the main screen.

7. Tap the gear on the upper-right and select "Connect to Simulator"



8. Select the simulator you wish to connect to and tap "Connect and Save as Default"

The name of the simulator and the serial number appear at the top of the screen. The green dots indicate the strength of connection.

> **OMNI® 2 can be operated up to 10 meters from the simulator.**

8. Appendix

8.1 Spare Parts List

Contact Gaumard Scientific for a complete list of consumables and replacement parts and their prices.

Item	Type	Part Number
Arm Skin	Consumable	S154.813.L/M/D
IO Tibial Bones	Consumable	S154.835
Artificial Blood Concentrate	Consumable	S154.812
IO Skin and Bone Cover	Consumable	S157.836.L/M/D
Disposable Airway	Consumable	S154.841 (pack of 10)
Disposable Airway	Consumable	S154.842 (pack of 100)

8.2 Troubleshooting

Communication/Power Issues

Communication with the simulator cannot be established	
Controlling tablet is too far away from simulator	Minimize the distance between simulator and the tablet. Should not be over 10 meters away
Manikin is not paired	Disconnect the simulator from the power supply, turn off bluetooth on OMNI 2 tablet. Plug the simulator and turn on bluetooth.
Power supply is not connected to simulator	Ensure that the power supply is connected to the simulator

Miscellaneous Issues

CPR is not detected	
Compression are not detected	Tap the Gear on the top right and select Calibration. Reset the compressions sensor
Ventilations are not detected	Tap the Gear on the top right and select Calibration. Reset the Ventilations sensor.

9. Warranty

9.1 Exclusive One-Year Limited Warranty

Gaumard warrants that if the accompanying Gaumard product proves to be defective in material or workmanship within one year from the date on which the product is shipped from Gaumard to the customer, Gaumard will, at Gaumard's option, repair or replace the Gaumard product.

- This limited warranty covers all defects in material and workmanship in the Gaumard product, except:
  - Damage resulting from accident, misuse, abuse, neglect, or unintended use of the Gaumard product;
  - Damage resulting from failure to properly maintain the Gaumard product in accordance with Gaumard product instructions, including failure to property clean the Gaumard product; and
  - Damage resulting from a repair or attempted repair of the Gaumard product by anyone other than Gaumard or a Gaumard representative.

This one-year limited warranty is the sole and exclusive warranty provided by Gaumard for the accompanying Gaumard product, and Gaumard hereby explicitly disclaims the implied warranties of merchantability, satisfactory quality, and fitness for a particular purpose. Except for the limited obligations specifically set forth in this one-year limited warranty, Gaumard will not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory regardless of whether Gaumard has been advised of the possibilities of such damages. Some jurisdictions do not allow disclaimers of implied warranties or the exclusion or limitation of consequential damages, so the above disclaimers and exclusions may not apply and the first purchaser may have other legal rights.

This limited warranty applies only to the first purchaser of the product and is not transferable. Any subsequent purchasers or users of the product acquire the product "as is" and this limited warranty does not apply.

This limited warranty applies only to the products manufactured and produced by Gaumard. This limited warranty does not apply to any products provided along with the Gaumard product that are manufactured by third parties. For example, third-party products such as computers (desktop, laptop, tablet, or handheld) and monitors (standard or touch-screen) are not covered by this limited warranty. Gaumard does not provide any warranty, express or implied, with respect to any third-party products. Defects in third-party products are covered exclusively by the warranty, if any, provided by the third-party.

- Any waiver or amendment of this warranty must be in writing and signed by an officer of Gaumard.
  - In the event of a perceived defect in material or workmanship of the Gaumard product, the first purchaser must:
  - Contact Gaumard and request authorization to return the Gaumard product. Do NOT return the Gaumard product to Gaumard without prior authorization.
  - Upon receiving authorization from Gaumard, send the Gaumard product along with copies of (1) the original bill of sale or receipt and (2) this limited warranty document to Gaumard at 14700 SW 136 Street, Miami, FL, 33196-5691 USA.

If the necessary repairs to the Gaumard product are covered by this limited warranty, then the first purchaser will pay only the incidental expenses associated with the repair, including any shipping, handling, and related costs for sending the product to Gaumard and for sending the product back to the first purchaser. However, if the repairs are not covered by this limited warranty, then the first purchaser will be liable for all repair costs in addition to costs of shipping and handling.

10. Contact Gaumard

10.1 Contacting Technical Support

Before contacting Technical Support you must:

1. Have the simulator's serial number
2. Have access to the simulator for possible troubleshooting as needed

Technical Support:
Email: support@gaumard.com
USA: 800-882-6655
INT: 01-305-971-3790

10.2 General Information

Sales and Customer Service:
E-mail: sales@gaumard.com
USA: 800-882-6655
INT: 01-305-971-3790
Fax: 305-667-6085

Post:
Gaumard Scientific
14700 SW 136 Street
Miami, FL 33196-5691
USA

Office Hours:
Monday-Friday, 8:30am - 7:30pm EST

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UG.S154.250