



Gaumard[®]
Simulators for Health Care Education

S117 & S117.250

Multipurpose Patient Care and CPR Pediatric Simulator

User Guide



S117 & S117.250 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 18.7.1
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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.

Stoma Care

- Always handle the stomas with clean hands.
- Do not palpate with fingernails.
- Do not clean with alcohol or aggressive solvents.
- Do not pack any sharp objects with the stomas.
- Do not press the stomas against soiled surfaces, ink, or newsprint. The stoma material is absorbent.
- Prevent items from resting or pressing against the stomas as indentations will form on the pressure points. The stomas may return to the normal shape after the pressure is relieved.
- Place baby powder on the stoma surface to reduce tackiness. This can be reapplied as needed.
- Clean the stomas using a mild solution of soap and water.
- Apply baby powder to return the surface to a skin-like feel and appearance.

WARNING: Vein tubing contains latex which may cause allergic reactions. Users allergic or sensitive to latex should avoid contact. Discontinue use of this product and seek medical attention if an allergic reaction occurs.

2. Overview

2.1 Features

The S117 and S117.250 is a multipurpose 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

- Oral and nasal intubation
- Use an ET tube or LMA
- Realistic airway with tongue and vocal cords

Artificial Respiration

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

Circulation

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

Systemic

- Stoma care
- Gastrostomy
- Catheterization

Venous Access

- Intravenous training arm and hand
- Femoral venous access

CPR Options

- OMNI 1
- OMNI 2 (S117.250)

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

- Pulse Line with squeeze bulb
- Male genitalia (installed)
- Spare right arm skin
- 4 Stoppers
- Port Filling Kit
- 3 Stomas (installed)
- 3 Tubing clam (installed)
- 2 Filling syringe
- 8 IO tibia bone (1 installed, 7 spare)
- Mineral Lubricant
- Blood Concentrate
- Roll of tape
- Power supply

3. Equipment Setup

Unboxing

The CPR pediatric simulator 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® Wired Connection Setup (Optional)

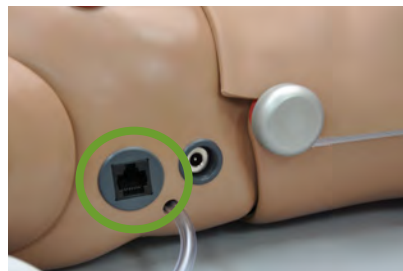
Follow the steps below to connect S117 to OMNI®:

1. Connect the power supply to the simulator

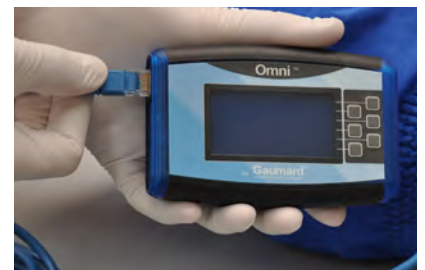
Always operate the simulator with the power supply connected.



2. Connect the communication cable to the wired communication port



3. Connect the other end of the communication cable to the OMNI control device



OMNI® 2 Wireless Connection (Optional)

OMNI® 2 controls S117.250's responses with the touch of a button. The tablet operates the simulator wirelessly.

Follow the steps below to connect to OMNI® 2:

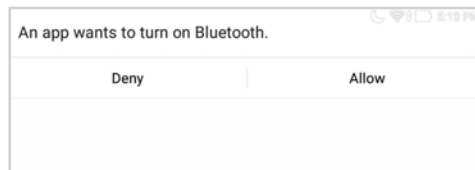
4. Connect the power supply to the simulator

Always operate the simulator with the power supply connected.

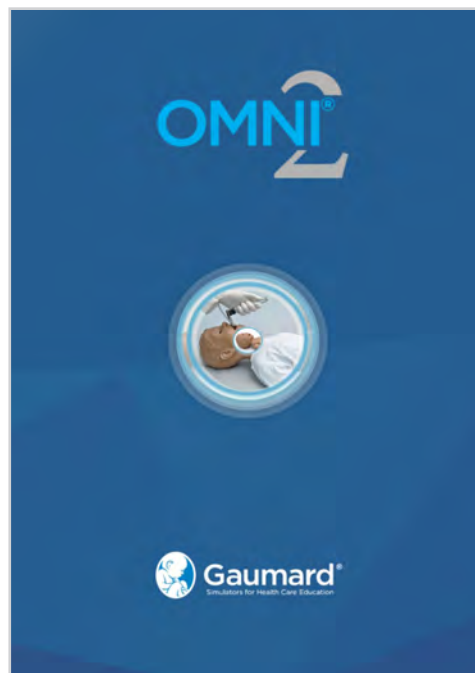


5. Turn on OMNI® 2 by pressing and holding the ON button on the right side of the tablet.

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

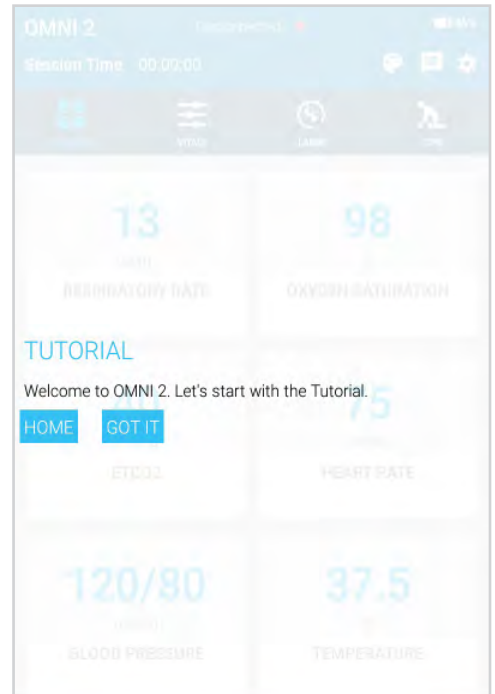


7. A startup screen is shown while OMNI® 2 is detecting the simulator features.



8. Follow the on-screen tutorial for a brief overview of the features of OMNI® 2.
9. Move onto the next steps in the Tutorial by selecting “GOT IT”.
10. 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 automatically proceed 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 unauthorized diagnostic equipment. Doing so will cause serious damage to the equipment.



4. Using S117

4.1 Airway

Nasal and Oral Intubation

The simulator allows for realistic jaw thrust, head tilt and chin lift.



The airway has anatomical landmarks and can be intubated orally or nasally.



The simulators's airway can be intubated through the [left](#) nasal opening, trachea, and mouth using LMA or endotracheal tubes.



WARNING: Manually lubricate the ET tube, and nasal opening prior to performing an intubation exercise.

Do not spray mineral oil directly into the mouth or the airway.

Introduce fluids through the esophagus to practice nasogastric feeding procedures.



| Procedure | Recommended Device Size |
|-------------------------|-------------------------|
| Intubation (Blade size) | Miller 1 or MAC 2 |
| LMA | Size 1.5/2 |
| Nasal Intubation | 10 Fr catheter |
| Oral Intubation | ETT 3.5 |
| Nasogastric Tube | 10 Fr catheter |

Tilting the head forward obstructs the airway.

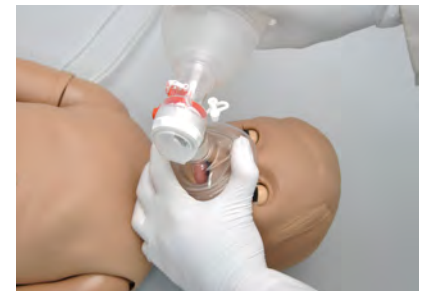


4.2 Artificial Respiration

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.



Tracheostomy Care

The simulator is supplied with a tracheostomy opening.



Instructions for Use

1. Lubricate the device with mineral oil

2. Insert the tracheostomy tube and pierce the trachea tape



Trachea Repair

1. Lift the chest skin



2. Lift until you expose the trachea



3. Remove the punctured tape



4. Replace the pierced tape



5. Replace the chest skin over the torso



4.3 Circulation

Compression

The chest cavity contains realistic landmarks for correct hand placement during CPR.



Palpable Pulses

The simulator is equipped with pulses generated by a squeeze bulb located on the **left** side of the manikin.



Palpate the following pulses:



Right Radial



Right Brachial



Right Femoral



Left Popliteal

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 |

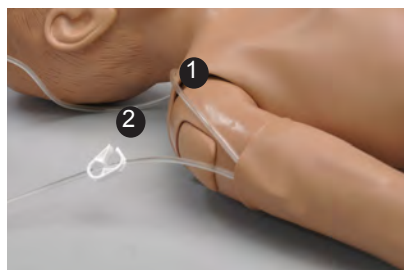
The training arm features:

- 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

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



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.

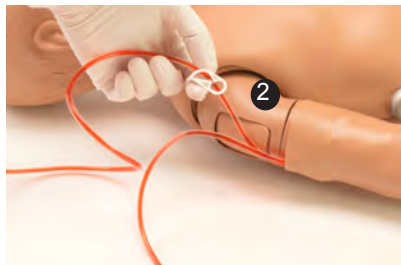


Cleaning the Vasculature and Replacing the Skin

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. Open the clamp of **Tube 2**



2. Fill the syringe with a solution of alcohol and water (30:70) and connect it to **Tube 1**



3. Push in the fluid until the blood is clear



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



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

To replace the arm skin,

1. Gently roll down the arm skin



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



3. Apply some mineral oil to the arm to ease the movement of the skin



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 baby powder. This will keep the training arm supple and easy to use.

Tuberculosis Patch

The left arm of the simulator has a patch designed for TB screening.



Intraosseous Access

To fill the vasculature for the intraosseous access, follow steps below:

Right Leg: Filling



Left Leg: Drainage



1. Place **Left Leg** hose in a drainage container



2. Leave drainage clamp open



3. Fill a syringe with fluid and connect the syringe to the **Right Leg** hose and push in the fluid



4. Allow fluid to flow into the drainage container

5. Close the clamp on the drainage hose



6. Perform the IO exercise



| Procedure | Recommended Device Size |
|---------------------|-------------------------|
| Intraosseous Access | 17-16 gauge |

Draining the Tibia

After a simulation is complete,

1. Place a drainage tube in the **Left Leg** into a container and open the clamp



2. Fill the syringe with a solution of alcohol and water (30:70) and connect it to **Tube 1**



3. Push in the fluid until the blood is clear



4. Then, fill a syringe with air and connect it to the hose from **Right Leg**



5. 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 and push it down in place



5. Re-attach tibia cover



Femoral Access

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

Perform the exercise on the right vein.



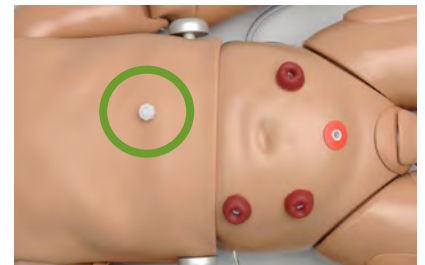
To fill the vasculature for the femoral access, follow steps outlined in the Intraosseous Access section:

The femoral access is part of the same fluid system as the IO access.

4.4 Systemic

Gastrostomy Port

The simulator includes a gastrostomy opening to drain the stomach fluids that were introduced through the esophagus.



| Tank | Capacity |
|---------|----------|
| Stomach | 100 mL |

Draining the Stomach Reservoir

1. Open the clamp on the hose located on the right side of the simulator



2. Let the contents drain into a container



3. Pull to remove the gastrostomy plug



4. Connect the hose to the syringe



5. Fill the syringe with a solution of 70:30 water and alcohol



6. Insert the solution into the stomach reservoir



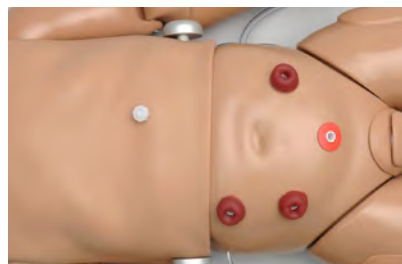
7. Push in the fluid



8. Allow for the rest of the contents to drain from the reservoir

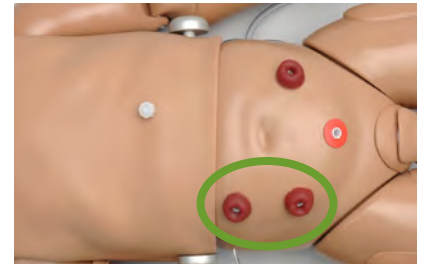
Ostomy Care

WARNING: The ostomies are all fixed to the abdominal skin. Do not attempt to remove.



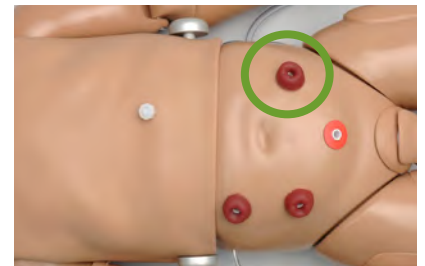
Perform ostomy care procedures on the simulator.

The **right** ostomies are internally connected to the same reservoir.



| Tank | Capacity |
|----------------|----------|
| Right Ostomies | 50 mL |

Add fluids to the ostomy on the **left** of the simulator and practice enema procedures.



| Tank | Capacity |
|--------|----------|
| Rectum | 250 mL |

Filling the Internal Reservoirs

1. Connect the syringe to the hose with adapter



2. Insert the filling kit adapter into one of the ostomy ports



3. Depress the syringe to fill the reservoir
4. Remove the syringe and adapter
5. Use the provided stoppers to prevent any spilling



Draining the Internal Reservoirs

1. Insert the filling kit adapter to the ostomy port
2. Suction fluid from the reservoir with the syringe
3. Then, fill a syringe with water and alcohol (70:30 respectively) and connect it to an ostomy to fill the reservoir



- Suction from the ostomy port



Urinary Catheterization

Catheterize the simulator with a size 8 Fr catheter. The simulator is supplied with male genitalia.

| Tank | Capacity |
|---------|----------|
| Bladder | 125 mL |

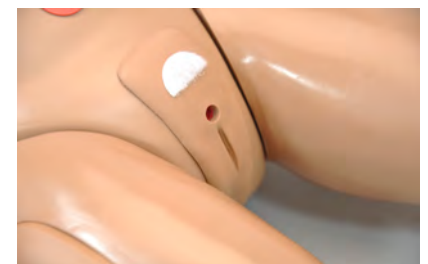
| Procedure | Device Size |
|-------------------------|-------------|
| Urinary Catheterization | 8 Fr |

Removing the Male Genitalia

- Gently peel back the Velcro

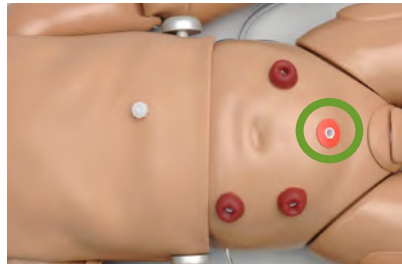


- Remove the male genitalia. The female genitalia will be underneath



Instructions for Use

1. Insert the fill kit adapter to the suprapubic port



2. Fill the syringe with fluid



3. Insert the adapter into the suprapubic port



4. Fill the reservoir



5. Leave the adapter and syringe inside the filling port to keep the reservoir pressurized

6. Lubricate the catheter



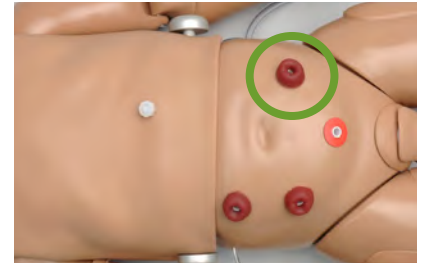
7. Catheterize the male or female genitalia



Enema Administration

Add fluids to the internal reservoir through the colostomy port.

Follow steps outlined in Section 4.4 “Filling the Internal Reservoirs”.



Practice enema administration with the simulator facing to the side. Use a lubricated anal nozzle of small diameter to perform the procedure.

Nasogastric and Orogastric Exercises

Nasal and oral openings are connected to the stomach reservoir. Insert an appropriately sized catheter to demonstrate tube feeding and gastric suction.



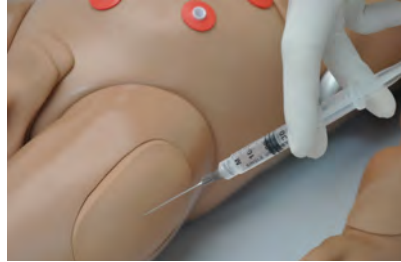
| Procedure | Recommended Device Size |
|------------------|-------------------------|
| Nasal Intubation | 10 Fr catheter |

Follow the steps from Section 4.4 “Draining the Stomach Reservoir” to remove the contents from the stomach.

4.5 Hospital Care Capabilities

Intramuscular Injection Sites

Administer intramuscular and subcutaneous injections on the **right** deltoid 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

4.6 Chest Decompression and Drainage (Optional)

The simulator has an optional ribcage with bilateral chest decompression and drain sites located at the 2nd and 5th intercostal spaces.

This feature includes a special ribcage with a decompression and drain bag with two tubes attached to it: a filling tube and a drain tube with the clamp.

WARNING: Do not attempt to perform compressions while using the Decompression and Drainage ribcage.

Instructions for Use

1. Lift the chest skin of the simulator to reveal the chest cavity



2. Remove the regular ribcage



3. Place the decompression and drain ribcage in position



4. Connect the squeeze bulb to the filling tube

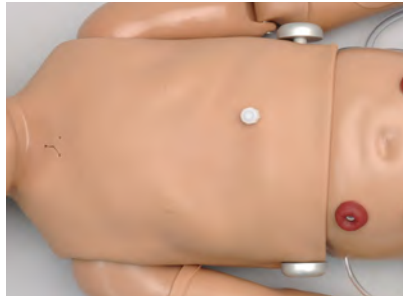


5. Close the clamp of the drainage hose



6. Inflate the bag beneath the ribcage with the squeeze bulb to simulate pneumothorax

7. Reattach the chest skin
8. Perform needle decompression exercises



To set up a chest drainage exercise, follow the instructions below:

1. Open the clamp of the drainage hose and place the end of the hose into a container
2. Connect a filled syringe to the filling tube
3. Allow fluid to flow through the system
4. Close the clamp



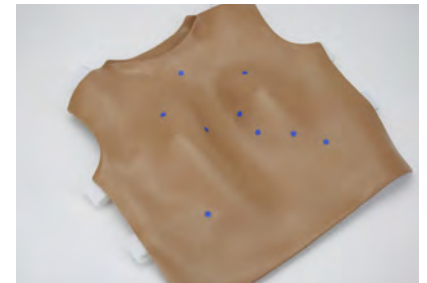
5. Reattach the chest skin and proceed with the drainage simulation

4.7 Heart and Lung Sounds (Optional)

The Heart and Lung Sounds teaching system is a tool used for auscultation training.



The system is composed of a Virtual Stethoscope™ and sensors located beneath the skin in a total of 13 locations, 9 on the front and 4 on the back.



Assembly

1. Unscrew the stethoscope bell.



2. Gently pull on the removal strip to remove the plastic protector. Once it's removed, screw the bell back on.



WARNING: Do not pull removal strip around the diaphragm as this will damage the part.

Manikin Assembly

Place the skin over the simulator and secure it to the upper torso.

Instructions for Use

1. Push and hold the power button to turn on and off.

The green light will appear when it is on.



2. Press the sound button to select the desired sound set as shown in the VS Sound Table.



3. Gently place the stethoscope against the auscultation sites



Refer to the VS105 User Guide for more information.

5. Using OMNI® 2 (S117.250)

OMNI 2 applies for only to the S117.250.PK or OMNI2.U

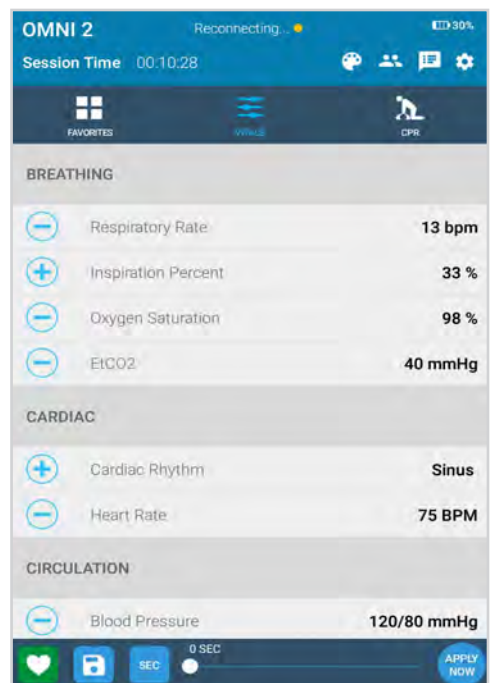
5.1 Main Screen

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

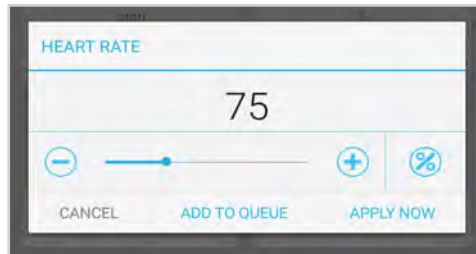


Changing a Vital Sign

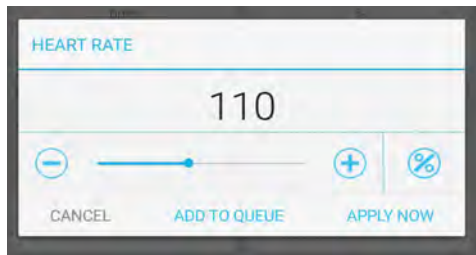
In order to change one of these parameters, follow the steps below:



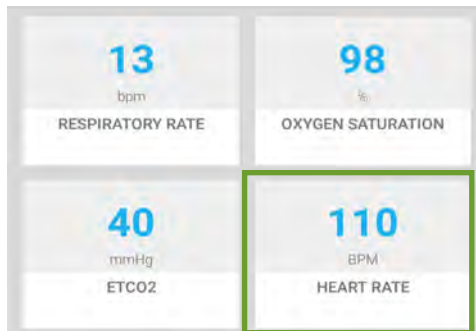
1. Tap on a vital sign.



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

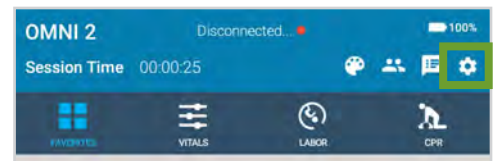
| Buttons | Function |
|---------|--|
| | Begin and end a CPR session |
| | Reset a CPR session |
| | Activate an audible coach for training |
| | Virtually defibrillate the simulator |

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

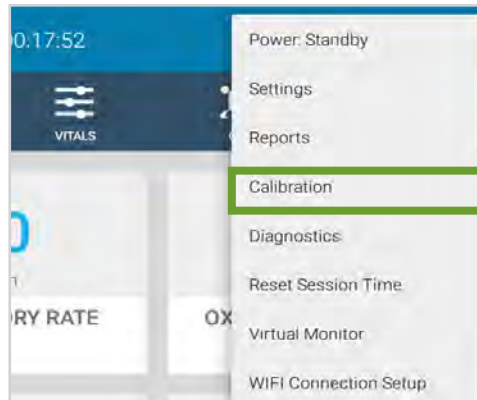
Compressions Calibration

It is recommended to calibrate the compressions before using the feature for the first time.

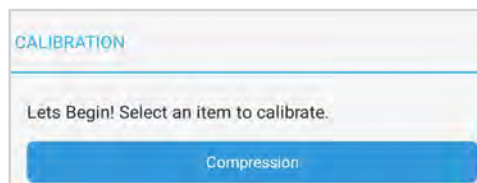
1. Tap the Gear in the upper right corner



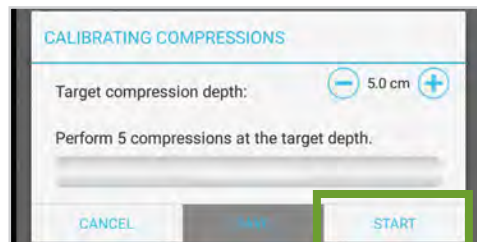
2. Select “Calibration”



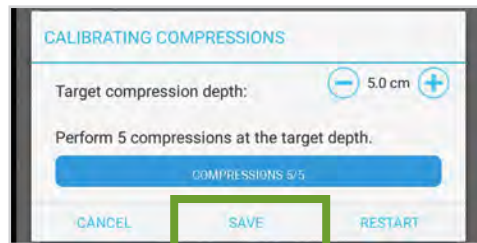
3. Press “Compression” from the calibration window



4. Tap “START” and perform 5 compressions



5. After the 5 compressions, tap “SAVE”



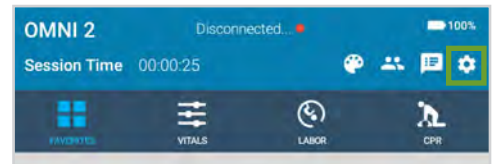
6. Virtual Monitor Setup (Optional)

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

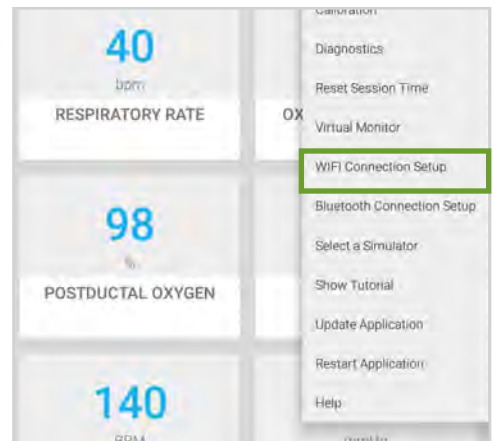
The simulator must be connected to the OMNI® 2 tablet in order to establish a connection to the Virtual Monitor.

1. Connect the provided router to the wall.

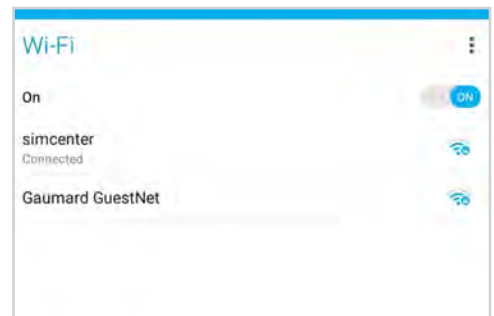
2. Tap the gear on the upper-right of the screen.



3. Select “WIFI Connection Setup”.



4. Connect to a wireless network.

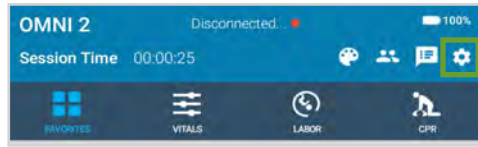


The network name will be “GaumardSimulatorSerialNumber”

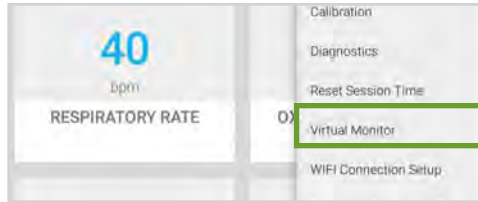
5. Exit the page by tapping the back button.



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

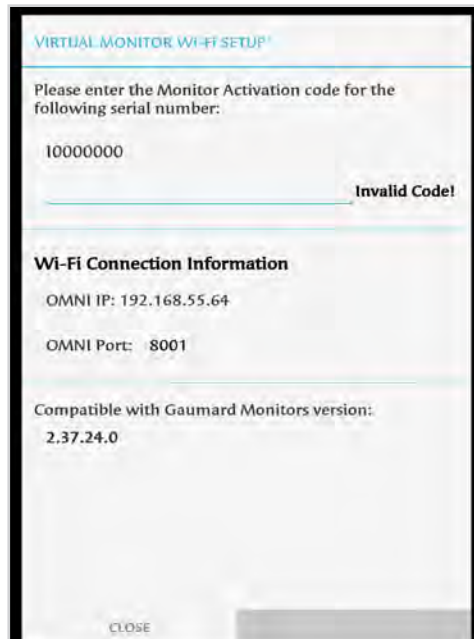


7. Select “Virtual Monitor”.



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.



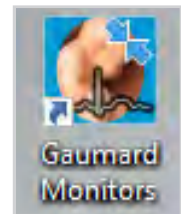
11. Take note of the OMNI IP and OMNI port.

12. Select “CONNECT”.

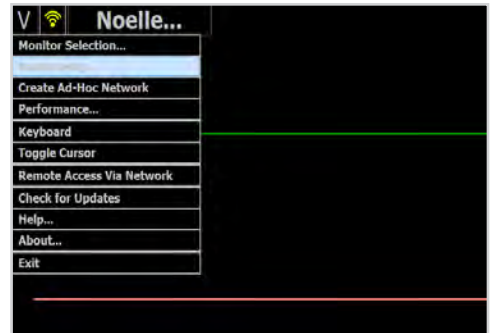
- On the monitor, connect to the same network as OMNI® 2.



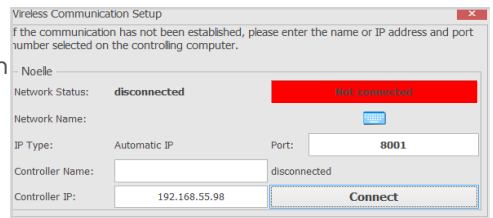
- Once connected to the WIFI, open the Gaumard Monitors software.



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

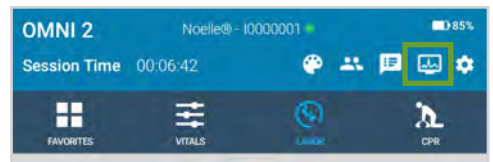


- Verify that the IP address in the “Wireless Communication Setup” matches the Omni IP and Omni Port noted before.



- Select “Connect”.

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

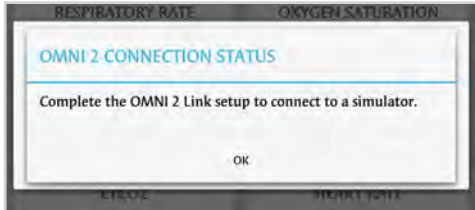


For more information on how to use the Virtual Monitor, please refer to the Omni 2 User Guide.

7. OMNI Link Setup (Optional)

OMNI 2 applies for only to the S117.250.PK or OMNI2.U

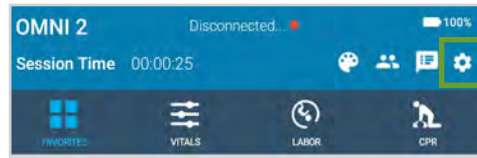
Follow steps 1-5 if the notification below appeared:



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

1. Connect the power supply to the simulator.

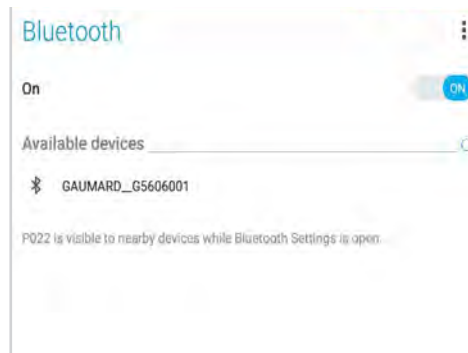
2. Tap the Gear on the upper-right corner of the screen.



3. Tap “Bluetooth Connection Setup”.

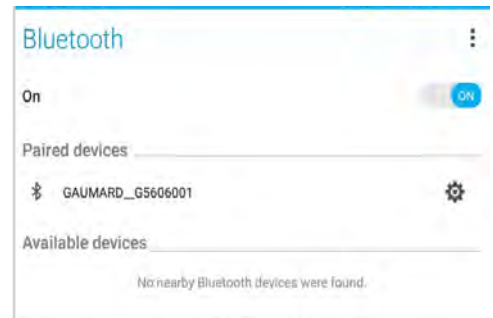


4. Select the simulator’s serial number under “Available Devices”.



The device name will be Gaumard_SimulatorSerialNumber

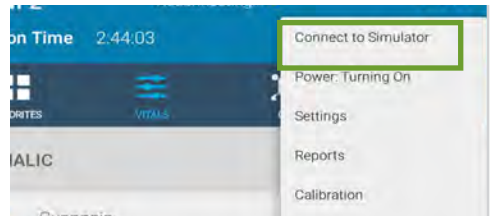
5. Wait for the device to pair with the OMNI® 2. This can take up to 30 seconds.



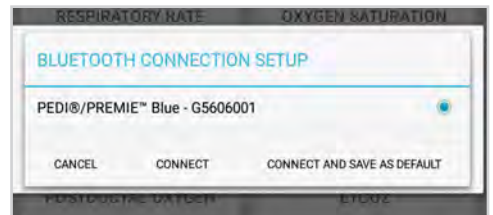
6. Once paired, tap the back arrow to return to the main screen.



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. OMNI® Code Blue® (Optional)

The OMNI Code Blue is an option for the S115 only.

Code Blue® is a CPR training tool incorporated in the Omni controller. It was designed to help teach CPR by monitoring cadence and depth of cardiac compressions and airway ventilations in real time.

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

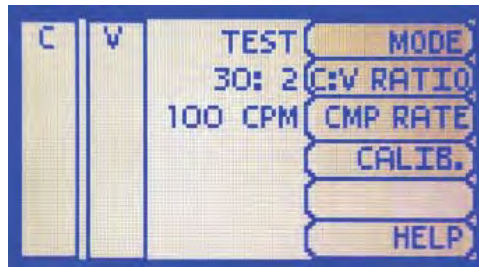
8.1 eCPR

- eCPR is an application that enables monitoring and logging of compressions and ventilations, performed in real time by the user, on a PC.
- This software aims to provide additional testing and teaching tools for CPR using an interface to display a waveform graph of the compressions and ventilations.
- For instructions on how to use eCPR, please refer to the OMNI® User Guide.

8.2 Main Screen

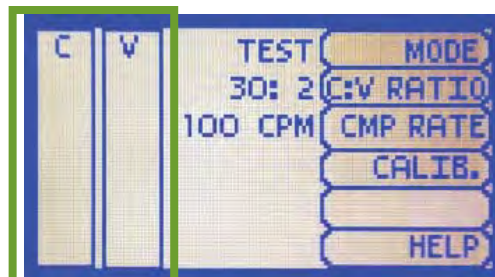
The Omni main screen is divided into three sections:

- Feedback Graphics
- Current Settings
- Navigation Menu



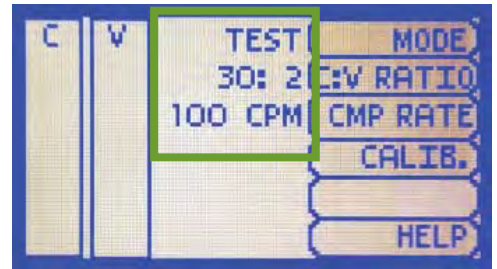
Feedback Graphics

Monitor and evaluate depth and cadence of compressions and ventilations in real time.



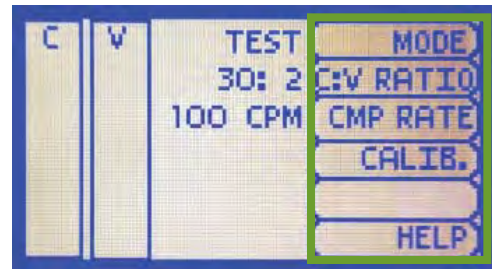
Current Settings

The current settings are listed on the middle of the screen. The settings will reflect the information saved during a previous session.



Navigation Menus

- Select a menu item by pressing the soft key buttons located on the right side of the controller. Each menu has additional submenus or toggle selections.



- Use the submenus to decrease, ncrease, accept, or cancel values

Navigation Menus

MODE

This submenu is for the CPR operational mode. Switch between TEST and COACH mode.

COACH mode generates audible tones to coach CPR ratio. A high-pitched beep signals the care provider to perform a compression and a low pitched beep signals a ventilation.

Use **TEST** mode to perform CPR without the audible cues.



C:V RATIO

Customize the compression to ventilation ratio to match correct guidelines.

Use the + and - buttons.
Press “OK” to save the changes.



CMP RATE

- Adjust the number of compressions or ventilations per minute
- The default is 100 CPM

1. Select “CMP RATE” button



2. Adjust the rate using the + and - buttons

3. Press “OK” to save the changes

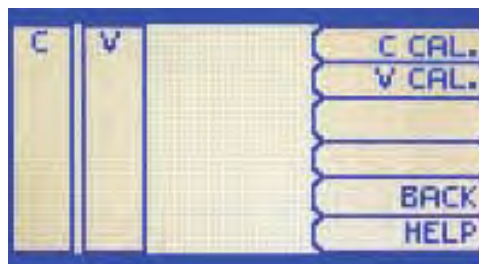


The compression rate limit is 50 - 150 CPM. The ventilation rate is 2 - 60 VPM.

CALIB

Access this submenu to calibrate compressions and ventilations.

Refer to section 4.2 and 4.3 for instructions to calibrate ventilations and compressions.



HELP

The help window provides access to global settings such as backlight time and OMNI®/ Simulator serial number.



SCREEN: The default value for OMNI®’s backlight timer is 10 minutes. After 10 minutes the backlight will turn off.

1. Press “SCREEN” to access the backlight settings



2. Use the + and - buttons to adjust the brightness and time of the backlight



SERIAL NUMBER: View the serial number of the manikin and OMNI device in this screen

1. Press “SERIAL” in the Help menu



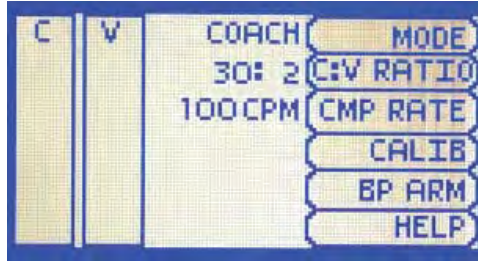
2. View the serial number on the device and press “OK” to exit



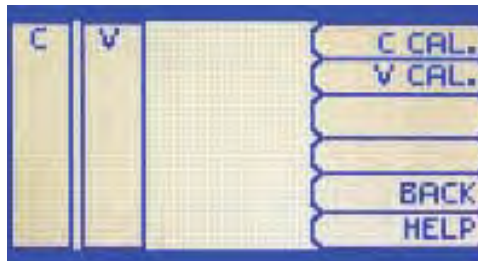
Pressure Sensor

It is recommended that the OMNI® controller’s pressure sensor is reset at altitudes greater than 1000 ft. to avoid inaccurate compression and ventilation readings.

1. Navigate to the calibration menu



2. Select either “C CAL.” or “V CAL.”



3. Press the “RESET” button



4. Perform the calibration as explained in section 4.2 and 4.3

5. Press “SAVE” when finished



It is recommended to do the reset for both compressions and ventilations.

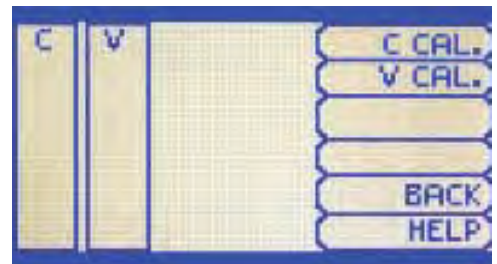
Calibration

Ventilation Calibration

1. Press the button that reads "CALIB"



2. Select "V CAL."



3. Press "START"



4. When OMNI® is ready to calibrate, it will display VENTILATE. Follow the cues on the screen to perform one ventilation at a time, until finished.



5. Perform a total of 5 ventilations



- Press "SAVE" to store the calibration



8.3 Circulation

Chest Compressions

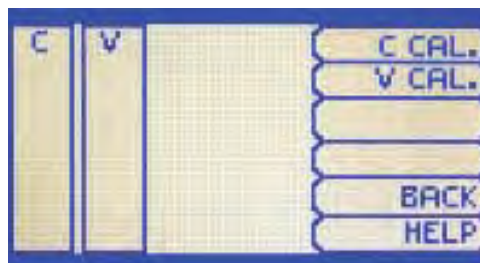
It is recommended to calibrate the compressions before performing compressions.

Compression Calibration

- Press the button that reads "CALIB"



- Select "C CAL."



- Press "START"



- When OMNI® is ready to calibrate, it will display COMPRESS. Follow the cues on the screen to perform one compress at a time, until finished.



- Perform a total of 5 ventilations



- Press "SAVE" to store the calibration



9. Appendix

9.1 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 | S117.813.L/M/D |
| IO Tibial Bones | Consumable | S117.835 |
| Artificial Blood Concentrate | Consumable | S117.812 |
| IO Skin and Bone Cover | Consumable | S117.836.L/M/D |
| Chest Decompression and Drainage Option | Option | S117.711.L/M/D |
| Ostomy Filling Kit | | S117.785 |
| Trachea Tape | | S117.735 |

9.2 Troubleshooting

OMNI 2

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. |
|-------------------------------|--|

10. Warranty

10.1 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 properly 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.

11. Contact Gaumard

11.1 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

11.2 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.S117 & S117.250