



Gaumard[®]
Simulators for Health Care Education

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NOELLE[®] S552 | User Guide

Maternal Birthing Simulator

NOELLE 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
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Care and Cautions

Overall Warnings

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

Procedures

Treat NOELLE with the same precautions that would be used with a real patient.

Always keep clear of the birthing mechanism while the system is on.

Never operate the birthing mechanism without the tummy cover in place.

Storage

Store NOELLE in a cool, dry place. Extended storage above 85 degrees Fahrenheit (29 Celsius) will cause the simulator to soften and slowly warp.

It is acceptable to operate NOELLE at an ambient temperature of 95 degrees Fahrenheit (35 Celsius).

Cleaning

NOELLE should be cleaned with a cloth dampened with diluted liquid dishwashing soap.

Remove all traces of any lubricant.

Do not clean with harsh abrasives.

Dry thoroughly.

NOELLE is "splash-proof" but not water-proof. Do not submerge or allow water to enter the interior of the simulator.

Set Up

NOELLE will only power on when connected to the AC power supply.

Birth Canal Maintenance

Ball point pens, ink and markers permanently stain the birth canal insert.

Do not wrap this or any other Gaumard product in newsprint.

The birth canal insert can be cleaned by wiping with a mild solution of soap and water. After cleaning, dust with talcum powder.

Store the unit in a cool, dry place.

After exercise is completed, DO NOT leave birthing baby in contact with the birth canal.

Terminology

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

Provider - a person participating in the simulation as a healthcare provider.

Getting Started

Overview

The NOELLE® S552 Maternal system permits students to appreciate the complete birthing experience from the onset of labor, to delivery, and treatment of the mother after delivery.

Simulator

Delivering mechanism

Other

Powerful yet intuitive user controller

One year limited warranty

Technical support

The Birthing Package contains the following:

Check List

- Abdomen cover with speaker attached
- Articulating birthing fetus
- Automatic birthing mechanism
- Cervix Holder
- Inflatable cushion for Leopold Maneuvers
- Instructional demo on CD-ROM
- NOELLE Training Guide with basic and advanced scenarios
- Omni™ Controller
- Power supply
- Silicone lubricant
- Talcum powder
- Three vulva insert for episiotomy repair
- Two dilating cervices
- Two fully dilated vulva
- Two mechanical adaptors
- Two placentas with fragments
- Two umbilical cords
- Umbilical clamp
- User Guide

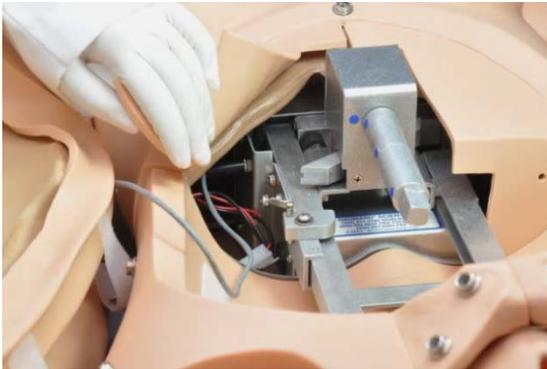
Equipment Set Up

NOELLE is shipped partially assembled. Place NOELLE on a flat surface. Remove the abdominal, fetus, elevating pillow and other materials packed within the abdomen.

Perform the following steps as part of the first install process.

Fetal Heart Rate Speaker

Connect the speaker cable, exiting NOELLE's belly cover, to the left side of the birthing mechanism.



Power Supply

Connect the power supply to the power input located on NOELLE's right side, and then connect the power supply to the wall outlet.

i Information
Always operate NOELLE with the power supply connected.

Omni™ Controller

Omni controls NOELLE responses with the touch of a button. Connect the communication cable to NOELLE's port and to Omni.

A startup screen is shown while Omni is detecting the simulator features.



After the start up screen, Omni will automatically proceed to the main screen.

⚠ Warning
Do not connect NOELLE or Omni to a computer, LAN network or unauthorized diagnostic equipment. Doing so will cause serious damage to the equipment.

Using Omni™

Main Screen

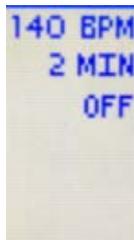
The Omni main screen is divided in the Current Settings and Navigation Menus. Pressing each button will display each menu item in detail.



Menu	Function
FHR	Set fetal heart rate
SPEED	Set labor duration
DYSTOCIA	Enable/disable turtle signs
PAUSE/RESUME	Stop/continue delivery
RESET	Return delivery motor to start position
HELP	Reset delivery mechanism, set backlight time and view Omni and Simulator serial number

Current Settings

Current settings information is listed at the center of the screen.



Fetal Heart Rate Menu

To change the vital signs parameters, press the + and - buttons. Pressing and holding this button will continuously increase or decrease the parameter value. Pressing OK accepts the changes and returns to the previous screen. Pressing CANCEL returns to the previous screen with no changes applied.



Navigation Menus

Edit NOELLE settings using the 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 selection. Use the submenus to decrease, increase, accept, or cancel values.



Fetal Heart Rate Submenu

Button	Function
+	Increase the current FHR
OK	Accept the value and return to main screen
CANCEL	Returns to previous screen with no changes applied

Button	Function
-	Decrease the current FHR
HELP	Reset delivery mechanism, set backlight time and view Omni and Simulator serial number
+	Increase the current FHR

Delivery Speed Menu

Changes to the delivery speed can be made by increasing or decreasing minutes with the + and - buttons. The speed ranges from 1 to 30 minutes. Pressing and holding a button will continuously increase or decrease the parameter value. Pressing OK accepts the changes and returns to the previous screen. Pressing CANCEL returns to the previous screen with no changes applied.



Delivery Speed Submenus

Button	Function
+	Increase the current labor duration
OK	Accept the value and return to main screen
CANCEL	Returns to previous screen with no changes applied
-	Decrease the current labor duration
HELP	Reset delivery mechanism, set backlight time and view Omni and Simulator serial number
+	Increase the current labor duration

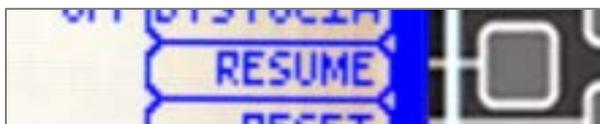
Dystocia Menu

Enable or disable “turtle signs” during delivery. Toggle between DYSTOCIA ON and DYSTOCIA OFF. When Omni displays ON, the dystocia feature is activated. Similarly, when it displays OFF the dystocia feature is deactivated.



Resume Menu

Toggle between PAUSE and RESUME. The RESUME option will start the automatic birthing mechanism. PAUSE will stop the delivering mechanism.



Reset Menu

When selecting RESET, the automated birthing mechanism will move to its initial position. A message on the Main Screen will confirm the command.



Help Menu

Every screen on the Omni controller has a HELP menu. The help window provides access to global settings such as delivery mechanism reset, backlight time and Omni/Simulator serial number.



Button	Function
↑	Scroll help text up
INIT MTR	Resets the delivery mechanism.
BACK	Return to main screen
BACKLIGHT	Back light timer
SERIAL	View Omni and simulator serial number
↓	Scroll help text down

Delivery Mechanism Reset

The INIT MTR button can be used to help the delivery mechanism find its initial position after an abnormal shutdown, such as, a power outage during a delivery. Use only during troubleshooting.

Backlight

The default value for Omni’s backlight timer is 10 minutes. After 10 minutes the backlight will turn off.

To increase the backlight duration, adjust the backlight timer with the plus or minus sign. Press **OK** to accept the changes.



Serial

View Omni and simulator serial number. Press OK to return to the HELP menu.



NOELLE® Obstetric Care

The NOELLE birthing mechanism offers the ability to demonstrate a variety of obstetric techniques including:

- Fetal palpation
- Vaginal delivery
- Shoulder dystocia
- Cesarean delivery
- Complete, frank and footling breech deliveries
- External version
- Cord prolapse
- Placenta previa
- Vacuum or forceps delivery

Automatic Birthing Mechanism and the Omni™

NOELLE is supplied with an electromechanical system to automatically deliver the fetus using the Omni controller. The system, configured with the Omni, provides internal rotation, linear motion to “crowning”, and a second rotation to present the fetal shoulders parallel to the longitudinal axis of the vulva.

Leopold Maneuvers

Practice Leopold Maneuvers with NOELLE.

1. Retract the birthing mechanism and remove the articulating birthing baby.
2. Place elevating pillow within simulator.



3. Route the inflation bulb outside NOELLE through any space provided on the left side.
4. Place birthing fetus in the vertex, breech, or transverse position onto the elevating pillow and lift fetus anteriorly using squeeze bulb.



5. Snap abdominal cover into place.
6. Lift fetus anteriorly using squeeze bulb.
7. Conduct the four Leopold Maneuvers.

Dilating Cervix

As the fetus proceeds down the birth canal it pushes against a simulated uterus/cervix. The simulated cervix is designed to permit considerable distension. During delivery, the cervix dilates as the fetus moves down the birth canal. At crowning the head passes through the cervix and through the vulval insert. Students can measure birth descent and cervical dilation which may be used to plot the progress of labor.

Normal Labor and Delivery

To complete a normal delivery, follow the instructions below:

1. Remove the abdominal cover.
2. Lubricate the head and shoulders of the articulating birthing fetus.



- Lubricate the vulva and cervix internally and externally using silicone lubricant.

⚠ Warning

Always lubricate the baby and the birth canal prior to every delivery. Poor lubrication may damage the birth canal, fetus and the birth mechanism.



- Attach the umbilical cord to the baby.



⚠ Warning

Route the cord so it does not bind in the mechanism. The umbilical cord can be wrapped once around the fetal neck.



- Attach umbilicus to placenta.



- Attach the placenta to the abdominal wall using the Velcro® fastener. The abdominal wall has three placement sites to attach the placenta.

i Information

Orienting the Velcro patches in parallel causes the placenta to be retained; orienting them at right angles causes the placenta to release with modest traction.



7. Connect the cylindrical adapters, with blue markers aligned, to automatic birthing mechanism.



Information

Ensure the marker of the automatic birthing mechanism aligns with the markers of the mechanical adapters and the birthing fetus.

8. Attach fetus to birthing mechanism. Position the baby so that its head faces toward the left side of the simulator. This is the ROA or right occipital anterior position.



Information

Placing the fetus in the right occipital anterior (ROA) position at the beginning of the simulation will result in a “nose down” crowning followed by shoulder rotation. Placing the fetus in the left occipital posterior (LOP) position will result in a “nose up” presentation which may require some assistance on the part of the student or Instructor. Breech deliveries may also be performed as detailed later.

Information

Any other delivery position may be chosen; however, take care that the fetal shoulders are aligned with the long axis of the vulva insert.

Warning

If the fetal shoulders are NOT aligned with the vulva, binding may occur.

9. Connect the power supply to the power input located on NOELLE’s right side, and then connect the power supply to the wall outlet.

10. Connect the communication cable to NOELLE and to Omni.
11. Select desired fetal heart rate using the Omni controller by pressing the + or – button and, press OK to accept the value.

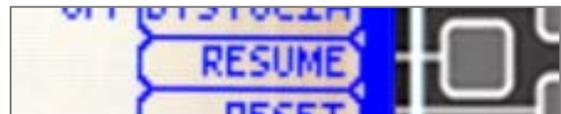


You may adjust the heart rate at any time during delivery to simulate episodes of bradycardia or tachycardia.

12. Now, select the speed of the delivery by accessing the SPEED menu and increasing or decreasing minutes. Press OK to accept the changes.



13. After confirming the settings for the labor, press the RESUME button to begin the delivery.



The birthing cycle can be paused at any point and then resumed. To return the birthing mechanism to its initial position, press RESET.

Note that the fetus rotates internally as it moves forward after the head is delivered and before the shoulders are delivered. The student or instructor may help the fetal head and shoulders through the vulva, as in real life. Once the shoulders are delivered, the student can complete delivery of the baby and placenta.

Information

In the event the birthing baby binds in the birth canal, the mechanism will pause and back up. It will automatically try a second time. If this occurs, remove the abdominal cover, PAUSE the birthing mechanism from the Omni and determine the cause. In most cases, binding can be prevented by thoroughly lubricating the fetus, the dilating cervix and the vulva.

During delivery, fetal heart tones can be heard by placing the bell of a conventional stethoscope on to the abdomen.

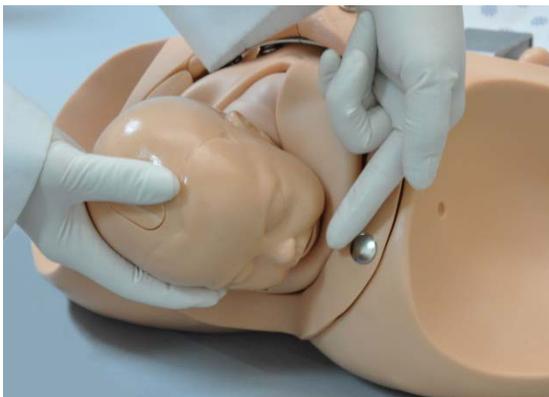
Move the bell of the stethoscope around until the heart tones are clearly heard. Change the fetal heart rate using Omni by accessing the FHR menu.



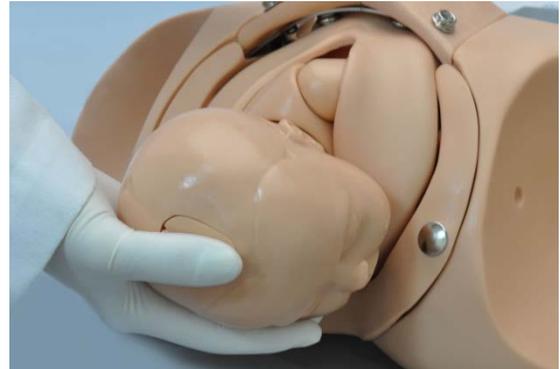
The cervix dilates as the fetal head moves down the birth canal. Crowning of the fetal head can be seen.



Mouth and nose suctioning can be simulated.



The delivery mechanism rotates the fetus allowing for shoulder presentation. External fetal rotation aligns shoulders with the longitudinal axis of the vulva. Slight traction can free both the upper and lower shoulders.



Information

The delivery mechanism automatically stops near the shoulders if one adapter is used or near the lower torso if two adapters are used.

Vacuum-assisted Delivery

Vacuum-assisted delivery may be practiced with the NOELLE simulator using a vacuum cup.

1. Begin the vacuum-assisted delivery by inserting the soft scalp over the skull of the birthing fetus.



Information

Placing the soft scalp over the skull improves the vacuum seal between the fetal head and the vacuum.



Warning

The soft skin scalp cover is meant to be used during the process of a vacuum delivery, and not resting against the cervix during non-simulation times. If pressure is left on the cervix from the scalp cover for lengthy times, both pieces will be damaged.

2. Lubricate the fetus supplied with NOELLE and, place it onto the delivery system in the normal ROA position.
3. Connect the power supply to the power input located on NOELLE's right side, and then connect the power supply to the wall outlet.
4. Connect the communication cable to NOELLE and to Omni.
5. Press RESUME from Omni.

Information

Omni will load with predetermined settings. Fetal heart rate of 140 BPM, delivery speed of 2 minutes and the dystocia feature OFF.

Activating the delivery mechanism will move the fetus down the birth canal.

6. Select PAUSE as soon as the cervix is fully dilated.
7. Insert a lubricated vacuum cup into the vagina and place the cup onto the flexion point of the skull located between the fontanelles. Use the manual vacuum pump supplied with such devices to cause the attachment of the cup to the skull. Wait a few minutes for the "chignon" to form.



8. Await the next contraction.
9. Have the student apply a steady traction, perpendicular to the plane of the cup.
10. Select the "RESUME" key, then the "PAUSE" key again to move the fetus slightly down the birth canal.

Some vacuum-assisted delivery devices are equipped with a means for measuring the amount of traction which may be on the order of about 15 pounds.

The student must stop traction when the simulated contraction ceases. Repeat this procedure of waiting for the simulated contraction and providing traction during the contraction if and only if the fetus is moving down the birth canal with each contraction.

The student may also assess the potential need for an episiotomy to facilitate delivery. In the event delivery progress is not being made, NOELLE must be immediately referred as a potential "C" section candidate.

Shoulder Dystocia

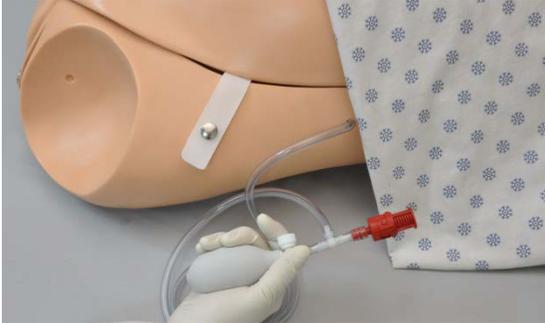
During dystocia, the fetal shoulders become wedged behind the pubic bone. NOELLE may be used to practice the resolution of dystocia using episiotomy techniques, the McRoberts maneuver, suprapubic pressure, posterior arm sweep, or elbow-knee delivery.

1. To demonstrate shoulder dystocia, place the fetal baby in the ROA position.



2. Snap abdominal cover into place.
3. Locate a small squeeze bulb on the left side of NOELLE. The bulb is attached to an inflatable bag near the dilating cervix.

- Inflate the bag using the manual squeeze bulb. The fetal head and shoulders will rise toward the maternal symphysis pubis, simulating locking the shoulder behind pubic bone. Note that the fetal head is palpable beneath the stomach cover.



- Connect the power supply to the power input located on NOELLE's right side, and then connect the power supply to the wall outlet.
- Connect the communication cable to NOELLE and to Omni.
- Select SPEED of delivery and activate DYSTOCIA by turning ON the feature.
- Press RESUME.

Students must use various maneuvers to deliver the baby.

- If the fetus cannot be delivered the Instructor can press DYSTOCIA key to turn OFF the feature. This will cause the fetus to resume the movement down the birth canal.

⚠ Warning

Do not place the fetus in the LOA position as it will attempt to birth with its shoulders at right angles to the axis of the vulva causing undue stress on the delivery mechanism.

At any time the Instructor may completely retract the delivery mechanism by selecting RESET in the Omni controller.

Cesarean Delivery

Demonstrate a C-section using NOELLE. Remove the metal snaps just above the pubic bone and birth the baby between the stomach cover and the pubic bone. To complete this procedure follow the steps below.

- Retract delivery mechanism.
- Insert inflatable cushion.
- Attach abdominal cover using the metal snaps except for snaps above the pubic bone.
- Birth the neonate between the stomach cover and pubic bone.

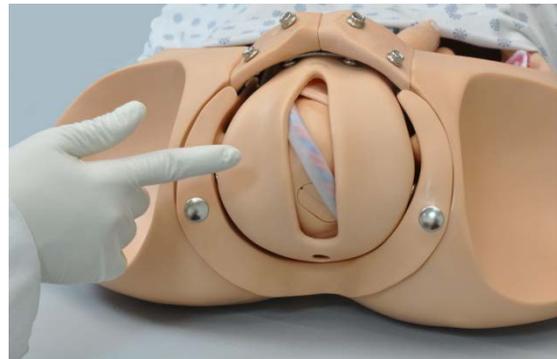
⚠ Information

To demonstrate midline or "bikini" incisions with NOELLE, utilize an optional abdominal cover. The optional C-section cover is available as P/N 560.029.



Prolapse of the Umbilical Cord

Simulate prolapse of the umbilical cord by positioning cord on a critical position and decreasing the fetal heart rate from Omni.



Placenta Previa

To simulate placenta previa with NOELLE, place the placenta in the desired position to simulate the condition, with the maternal side against the uterine wall or the cervical os. Then place the fetus within the uterine cavity with the presenting part closest to the placenta.



External Version

Version may be attempted to rotate the fetus from a breech position into one permitting normal vertex presentation.

1. To practice external version, remove the abdominal cover and the fetus.
2. Retract the delivery mechanism.
3. Insert the inflatable cushion.
4. Remove the foam in the abdominal cover.
5. Thoroughly lubricate the inside surface of the abdominal cover, the fetus, and the inflatable cushion.
6. Place the lubricated fetus onto the lubricated inflatable cushion and snap the lubricated abdominal cover into place.



7. Inflate the cushion lifting the fetus anteriorly.
8. Inflate the cushion at the base of the pelvic cavity to position fetus.
9. Confirm the breech position and attempt to manually turn the fetus within the uterus by transabdominal manipulation.

Breech Birth

1. To simulate breech presentations with the NOELLE, fully retract the birthing mechanism.
2. Remove the soft scalp from the fetal head.



Information

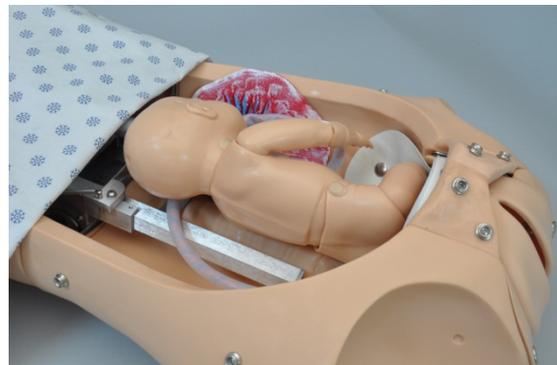
The fetus has a receptacle at the rectum and frontal fontanelle location into which the matching pin located on the birthing mechanism is inserted.



Information

Removing plug reveals aperture for birthing mechanism. Insert the plug into the rectum of birthing fetus during delivery.

3. Lubricate the lower torso and legs of the fetus.
4. Insert the birthing mechanism into the fetal head using one or two adapters.



5. Place the fetal legs in either an extended position to simulate “footling” delivery or retract the legs for a “frank” delivery.
6. Connect the power supply to the power input located on NOELLE’s right side, and then connect the power supply to the wall outlet.
7. Connect the communication cable to NOELLE and to Omni.
8. Select SPEED of delivery and press RESUME.

The Pinard or Leg-Flip maneuver frees one leg then another. The fetal arms may also require a similar maneuver during delivery. The fetal arms are delivered and the fetus rotated anteriorly to birth the head.



Delivery of the Placenta

The placenta supplied with NOELLE may be positioned so that it births spontaneously or requires either modest cord traction or manual removal.

In addition, the placenta is designed with two removable placental fragments. These fragments are attached to the body of the placenta with Velcro. You may reverse one or both fragments causing one or both to birth with the placenta or remain affixed to the uterine wall.

Students must carefully inspect the birthed placenta to make sure it is complete and that no fragments remain internally. If retained fragments are noted, the student must retrieve them using a gloved hand under appropriate aseptic conditions.



NOELLE® Postpartum Activity

Episiotomy Repair

Remove the fully dilated vulva used during delivery and select one of the three episiotomy repair modules. Snap a repair module into place. Use a “000” size suture and small curved needle to repair the surgical incision or repair.



⚠ Information

“000” sized sutures are recommended to extend the life of the repair modules.

Consumables and Replacements

Selected Parts List

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

Item ID	Description
S552.180	Omni Controller
S552.180.1	Communication Cable
S552.180.2	USB Cable
S552.007.L	C-Section Abdominal Cover
S552.008.L	Abdominal Cover
S552.011	AC Power Supply
S552.013	Birthing Mechanism
S552.016.L	Birth canal
S552.018.L	Elevating Pillow
S552.019	Placenta
S552.020	Umbilical Cord Set
S552.033	Episiotomy Trainer Set
S552.039.L	Articulating Baby Skin Mask
S552.040.L	Articulating Baby
S552.081	Lubricant

Contact Us

E-mail Technical Support:

support@gaumard.com

Before contacting Tech Support **you must:**

1. Have Omni/simulator's Serial Number
2. Be next to Omni/simulator if troubleshooting is needed.

E-mail Sales and Customer Service:

sales@gaumard.com

Phone:

Toll-free in the USA: (800) 882-6655

Worldwide: 01 (305) 971-3790

Post:

Gaumard Scientific

14700 SW 136 Street

Miami, FL 33196-5691

USA

Office hours:

Monday – Friday, 8:30 am - 4:30 pm EST (GMT -5, -4 Summer Time)

Warranty

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:

1. Damage resulting from accident, misuse, abuse, neglect, or unintended use of the Gaumard product;
2. 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
3. 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:

1. Contact Gaumard and request authorization to return the Gaumard product. Do NOT return the Gaumard product to Gaumard without prior authorization.
2. 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.
3. 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.

Extended Warranty

In addition to the standard one year of coverage, the following support plans are available:

- Two-Year Extension (covers second and third years)
- Call for pricing (USA only)

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Patented; other patents pending.

Always dispose of this product and its components in compliance with local laws and regulation.