

## Instructions and User Guide

### Select Series: Soft Tissue Ultrasound Training Models

BPTM130, BPB170, BPT195, BP1901



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# Overview

# 1

## Giving you the confidence only experience can offer™

Congratulations on the purchase of your Blue Phantom™ ultrasound model(s) for hands-on training. Every product we manufacture at Blue Phantom™ is specifically designed to be the most realistic and ultra-durable ultrasound simulation phantoms available anywhere. Our high standards for quality manufacturing and design guarantee that you receive only the absolute best.

## About Blue Phantom™

Blue Phantom™ brings you the most realistic and durable hands-on ultrasound training models available anywhere. At Blue Phantom™ we know that learning to use ultrasound requires practice. You gain confidence and skill through experience. That is why we offer you the best ultrasound simulation training available.

## Blue Phantom™ Warranty

Blue Phantom™ takes pride in its quality design and manufacturing standards. Our products are warranted to you by Blue Phantom™ for one year from the date of purchase against defects in workmanship and materials. During the warranty period, a defective part or product will be replaced either with a new or reconditioned part or product, depending on the availability at the time.

This warranty covers normal consumer usage and does not cover damage incurred through use not consistent with the product design. Failure that results from alteration, accident, misuse, vandalism, or neglect is not covered under this warranty. This warranty does not extend to any products that have been used in violation of written instructions.

# Product Cautions

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Please read this instruction guide carefully. Do not begin using this model until you fully understand these safeguards and have read the user guide in its entirety.

## Important Safeguards



1. Read Instructions – All safety and operating instructions should be read before the unit is operated.
2. While all parts of this user guide are important, the red flag that you see to the left denotes especially important content. Please familiarize yourself with all of the content prior to using your training model or damage to the model can occur.
3. This user guide includes instructions applicable to a variety of model configurations.
4. Retain Instructions – The safety and operating instructions should be retained for future reference.
5. Heed Warnings – All warnings in the operating instructions should be adhered to.
6. Follow Instructions – All operating and maintenance instructions should be followed.
7. Care must be taken to place the model in a position in which it will not fall off of the bed or surface, as this may cause injury.
9. Accessories – Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall causing serious injury to a child or adult, and serious injury to the unit.
10. **CAUTION:** Please use extreme care when using needles and sharp objects as to not accidentally injure yourself during training.



## Product Information

# 3

### Blue Phantom™ Select Series: Soft Tissue

- Soft Tissue Biopsy ([BPTM130](#))
- Breast Biopsy ([BPB170](#))
- Thyroid Biopsy ([BPT195](#))
- Elastography Breast ([BP1901](#))

### Included in this Package

- Blue Phantom™ Select Series Soft Tissue ultrasound training model
- Plastic storage container
- User Guide and Utilities CD

### Additional Items Required for Training

- For optimal performance, please use sharp and unbent 18-21 gauge needles (please see *Chapter 4: Utilizing Your Training Model—Using Needles* section on page 7 of this user guide)
- Ultrasound system with a high frequency linear array transducer
- Ultrasound gel

### Optional Accessories for Your Training Model

- Blue Phantom™ Ultrasound Refill Solution ([BRS180-Red](#)) for use with Thyroid Biopsy model

### Introduction to Your Training Model

This model is intended as a platform for ultrasound hands-on technique training. The model is designed to be extremely realistic and its self healing design provides you with superb durability. In order to get the most out of your training platform, it is important that you properly care for your model.

### Quick Facts about Your Training Model

- Ultra durable, self healing tissue
- Convex surface similar to a real patient
- Synthetic tissue will never dehydrate
- Contains a variety of hyperechoic, hypoechoic, and echolucent masses
- Includes masses of varying size
- Masses randomly presented at varying depths throughout the model
- Made in USA



# Utilizing Your Training Model

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## Blue Phantom™ Select Series: Soft Tissue

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### Anatomy of Your Training Model

1. Remove your training model from its shipping container and make sure that you have received all of the items listed in *Chapter 3: Product Information—Included in this Package* section on page 5 of this user guide. If you did not receive one of the listed items, or if you received the wrong items please contact Blue Phantom™ Customer Support immediately:

Telephone: (425)881-8830

Email: [customersupport@bluephantom.com](mailto:customersupport@bluephantom.com)

Web: [www.bluephantom.com](http://www.bluephantom.com)



Save the plastic container for storing your model.

2. Familiarize yourself with your training model.



Blue Phantom™ ultrasound training models are constructed using our patented simulated ultrasound tissue and mimics the imaging characteristics to that of human tissue. Care must be taken to not place the model on rough surfaces as the model can take on the surface characteristics of that surface. Do not place objects under the model as the tissue is soft and will conform to the shape of the object.

### Using Your Training Model

1. Remove your Blue Phantom™ from its packaging and place on a clean, hard, flat surface.
2. Place ultrasound gel on the model or on the ultrasound transducer in adequate quantities so that the probe slides effortlessly across the surface of the model. Add more gel as necessary.
3. Adjust the ultrasound system controls per the manufacturer's instructions, increasing and decreasing the depth and gain controls until the desired image is obtained.



If you intend on guiding sharp objects into the phantom, never place the model in a location where you might accidentally puncture yourself.

*(continued on next page)*

## Using Needles



1. For best performance, we recommend that you utilize a new, sharp, unbent 18-21 gauge needle when accessing the structures in the model.
2. Do not use any needle larger than 18 gauge or permanent damage to your model may occur.
3. Smaller bore needles (>21 gauge) can bend during use and damage your model simulated tissue.
4. Aggressive repositioning of needles rather than removing and repositioning can cause stubborn or permanent needle tracks due to the needle tip dragging through the simulated tissue.
5. Dull needles may also cause permanent damage to the tissue. It is important to replace needles approximately every ten cannulations.

## Performing Core Biopsies on Your Training Model

This model allows you to perform core biopsies and remove tissue from the masses in the model if you desire. Please heed the following warnings before performing core biopsies on your model.



1. Each model contains multiple complex masses of varying size.
2. Removing a core tissue sample from the model leaves an air filled void in the model the size of the core sample.
3. Once a tissue sample is removed from the model, it cannot be reinserted.
4. Damage caused to the surrounding tissue from performing core biopsies cannot be repaired.
5. Each mass can withstand 2-5 core biopsies until the lesion is destroyed.
6. Once a mass is destroyed, you must move on to another mass within the model.

# Caring for Your Training Model

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## Proper Use and Care

Proper care of your training model will result in tremendous utility. Please heed all instructions contained in this user guide when using your model.

## Cleaning Your Training Model

After each use, your training model can be easily cleaned using mild soapy water. For best results, mix one part liquid soap with one part tap water. Gently rinse the model with the soapy water to remove any accumulated debris.

Use a clean, soft, lint-free cloth to dry after cleaning. Dry the model using a dabbing motion, rather than wiping or rubbing the model.



Wiping or rubbing the surface aggressively can result in scuffing the simulated tissue.

## Storing Your Model

The model can be stored at room temperature either in the provided plastic storage container or in the open.



Do not store the model in contact with other objects. This can cause the simulated tissue to become deformed.

## Blue Phantom™ Customer Support

Blue Phantom™ is committed to providing you with superb products and uncompromising customer support. Should you require assistance feel free to contact us directly at:

Telephone: (425)881-8830

Email: [customersupport@bluephantom.com](mailto:customersupport@bluephantom.com)

Web: [www.bluephantom.com](http://www.bluephantom.com)



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