

Caution:

Don't mark on the phantom with pen or leave printed materials on its surface.

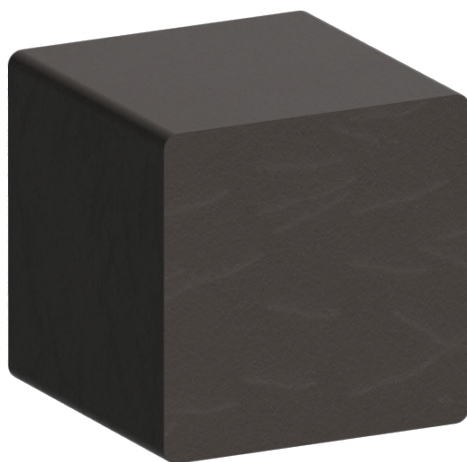
Ink marks on the phantom will be irremovable.

US-24

Elementary Cubic Phantom BLACKCUBE

● Product Supervision:

Hirosaki University Hospital, General Medical Department,
Dr. Kobayashi Tadashi



Instruction Manual

Contents

● General Information

Set Includes and Precautions P. 1

● Preparation, Imaging, Cleanup P. 2**● Targets P. 3****● Learning Aides P. 4****● General information**

This phantom is designed with the goal of offering hands-on training for entry level learners with real ultrasound devices used in clinical setting.

※ Ensure the use of properly serviced ultrasound devices.

※ The phantom is designed for hands-on training of healthcare trainees.

● Features

- The phantom material specially developed by Kyoto Kagaku produces images very close to those of an actual human.
- Every cube contains a different geometrical shape that is invisible from the outside.
- Scanning is possible from all 6 sides of the cube.
- Gain a basic understanding of how 3-dimensional objects are visualized in ultrasound.
- Mixing and matching the different cubes does not only make for great training but can also be used for examination.

Set Includes

Verify that everything is complete before you start.

a. Cubes		basic set	6
		full set	8
		*refer to p.3 for details	
b. Instruction manual			1
c. Work book			1
d. Quick reference cards			1
e. Talcum powder			1
f. Storage case			1



⚠️ Precautions

● Handle with care

This phantom is made from a special composition of resin. Please handle with care as to not damage it.
The storage case cannot be washed with water.

● Keep away from printed documents

Do not leave printed documents on the phantom. Ink stains will be irremovable.

● Do not write on the phantom

Any ink on the phantom will be absorbed and become irremovable.

● Cleaning and Care

Be sure to clean the phantom completely every time after finishing the training. Wipe off the gel with wet tissue. Left over gel may possibly damage the surface of the phantom
Never wipe the phantom with thinner or organic solvents.

● Color changes may occur

This color of the phantom, may over time. This does however not impact its performance.

● Storage conditions

Keep the phantom at room temperature, away from heat, moisture and direct sunlight.

1 Preparation



1. Place the cube phantom on a flat surface.



2. Put ultrasound gel on the phantom.

2 Imaging



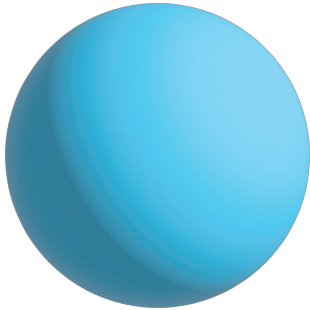
1. Place the transducer on the phantom and start scanning.
2. Visualize the targets.

3 Cleanup



1. After training, wipe any remaining gel off the phantom using wet tissues or something similar.
- * Any remaining dried-up gel may lead to deterioration of the phantom surface and influence the imaging quality.

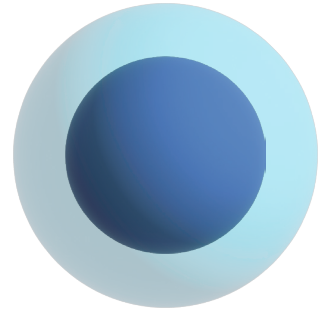
Targets



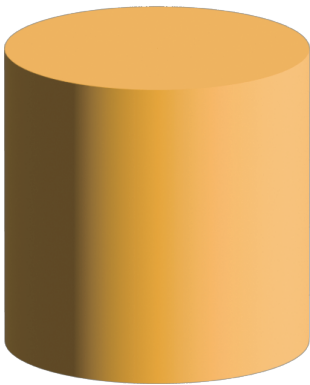
A. Sphere (large)



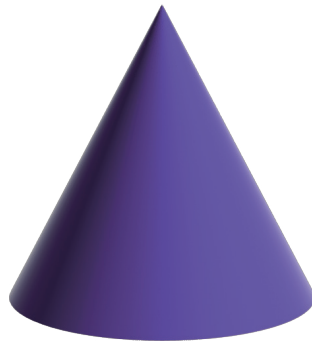
B. Sphere (small)



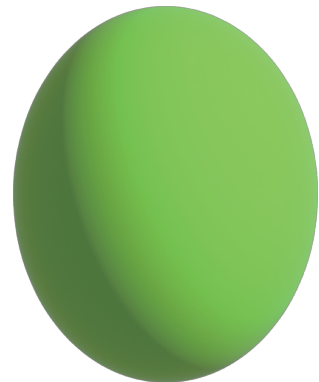
C. Double-layered sphere



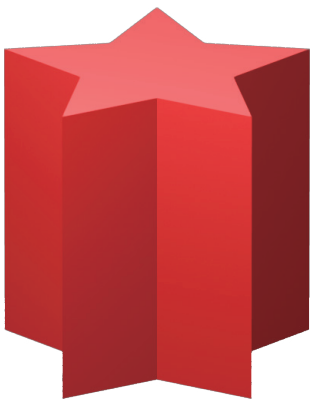
D. Cylinder



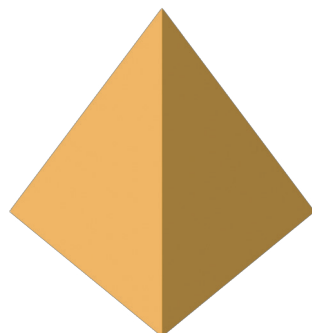
E. Cone



F. Ellipsoid



G. Star-shaped prism



H. Triangular pyramid

*1

In the full set, G. (Star-shaped prism) and H. (Pyramid) are included as well.

*2

The colors are for illustrative purpose only. The shapes are to be identified using ultrasound.

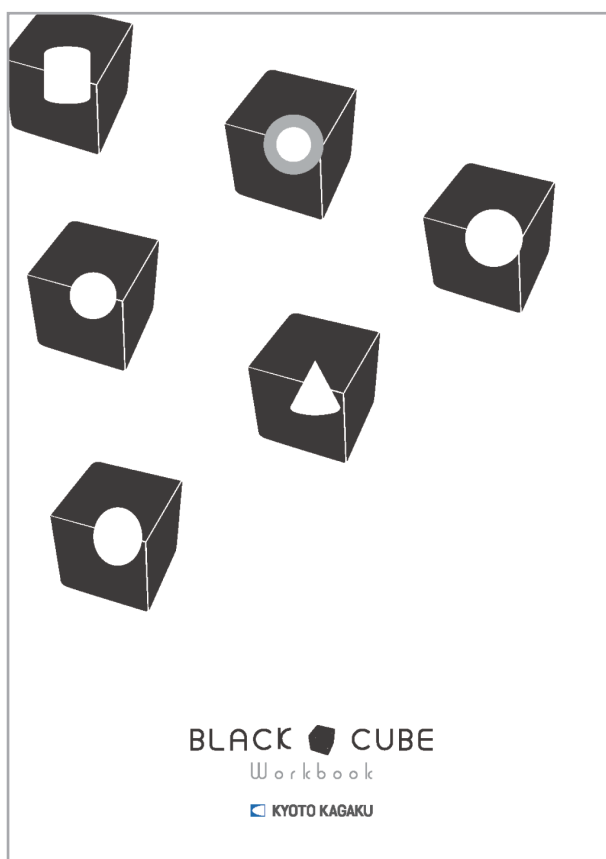
Learning Aids



1. Quick reference cards

Basic information about Ultrasound imaging compiled on 4 cards

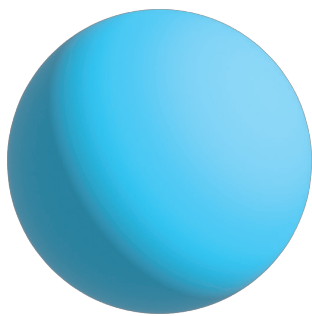
For quick reference during imaging.



2. BLACKCUBE Workbook

Information on how to work with the BLACKCUBE compiled in a work book format as a fun way of learning to handle an Ultrasound transducer.

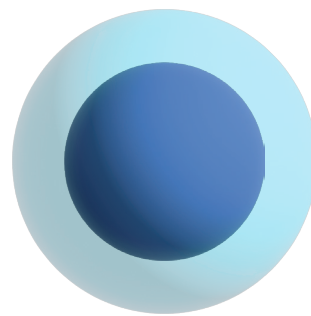
Including a certificate of completion at the end of the book as well as downloadable content.



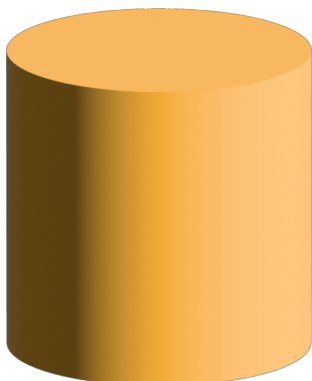
A. Sphere (large)



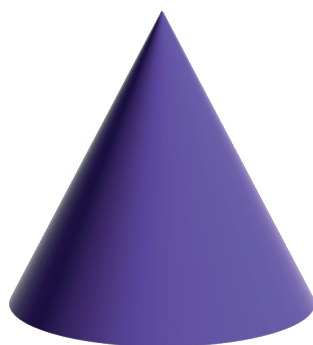
B. Sphere (small)



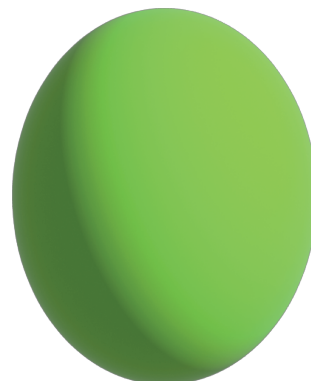
C. Double-layered sphere



D. Cylinder



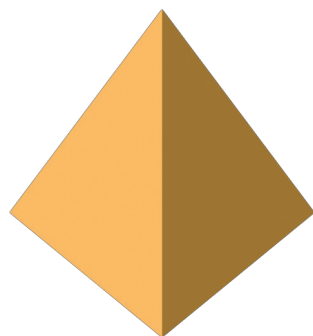
E. Cone



F. Ellipsoid



G. Star-shaped prism



H. Triangular pyramid

* G. (Star-shaped prism) and H. (Triangular pyramid) are included in the full set only.



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Ink marks on the phantom will be irremovable.

• Please contact the manufacturer through below address should you have any inquiries.

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