



Caution

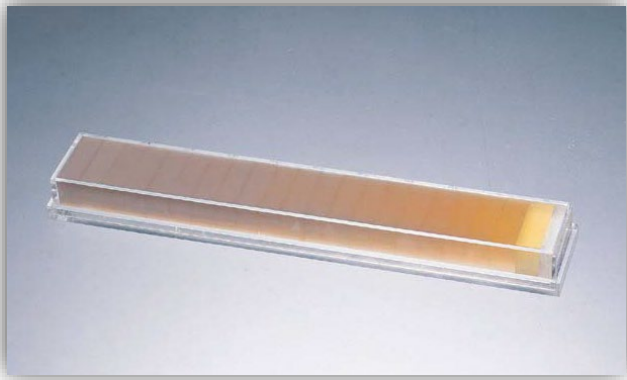
Do not mark on the model and other components with pen or leave any printed materials contacted on surface. Ink marks on the product cannot be removed.

PH-10

BMD Chart Phantom UHA

Instruction
Manual

Contents



- **Introduction**
 - Manufacturer's Note.....P.1
 - DOs and DON'Ts.....P.1
- **Before You Start**
 - Set Includes.....P.2
 - Specifications.....P.2
- **How to Use**
 - How to use.....P.3



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Manufacturer's Note

Features

PH-10 BMD Chart Phantom UHA is a Bone Mineral Density (BMD) Chart for microdensitometry (MD) method, which is widely used to assess bone atrophy in metabolic disorders and skeletal dysplasia. The phantom allows quantitative assessment of bone mineral using amount of hydroxyapatite in the phantom blocks.

The product is designed for training of healthcare professionals. Usage for any other purpose or the way of use not described in this manual is strongly discouraged.

Applications

- Densitometry

Dos and Don'ts

<ul style="list-style-type: none"> ● Handle the phantom and the components with care Be sure not to drop or add shock to the phantom and its components, since the product uses special resins and heavy, such shock may cause damage to the products or environment. 	<ul style="list-style-type: none"> ● Do not let ink from pens, oriented materials, this manual or other sources contact with the product's surface, as they cannot be cleaned off.
<ul style="list-style-type: none"> ● Storage dark, cool and dry space will help prevent the product's colors from fading and product from deforming. 	<ul style="list-style-type: none"> ● Never use the organic solvent such as paint thinner to clean the skin, as this will damage the simulator.
<ul style="list-style-type: none"> ● The product may be cleaned with a wet cloth if necessary, using mildly soapy water or diluted detergent. 	<ul style="list-style-type: none"> ● The color of the product's surface may change across the ages, this does not affect the quality of its performance.

Before You Start

Set Includes

Set Includes

Before your first use, ensure that you have all components listed below.

1 chart phantom

30 x 210 x 15 mm

Contains 21 pieces of phantom blocks of 30 x 10 x 15 mm

1 storage case

Specifications

Materials

Base materials: Polyurethane resin (Density: 1.06)

Additive: High-purity hydroxyapatite (Density: 2.7)

Each phantom block contains 0 to 400mg/cm³ hydroxyapatite by step of 20mg/cm³.

Compound ratio of Hydroxyapatite in each step (block) *theoretical value

Mg/cm ³	20	40	60	80	100	120	140	160	180	200
	220	240	260	280	300	320	340	360	380	400

How to Use

1. Take out the phantom blocks from the acrylic case.

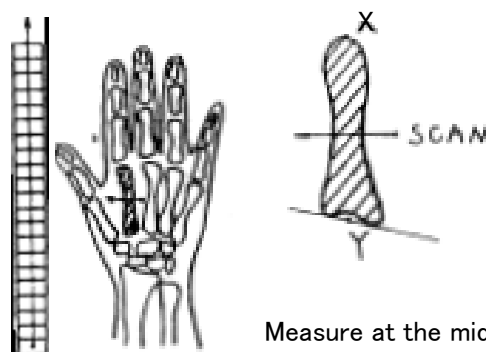
It is also possible to radiograph the phantom with the acrylic case, though, be sure to maintain the same condition for future assessment.

2. Radiograph the phantom together with the right hand of the patient. (see fig.1).

3 Measure the density of the middle point of the second metacarpal on the acquired image using densitometer.

4. Measure the density of each phantom block and compare the value with that of the second metacarpal.

5. Following above procedures, assess variation of BMD by days, months, years, or difference before and after administration of medicines.



Measure at the mid point between X and Y

Fig. 1



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Please contact manufacturer with any discrepancies in this manual or product feedback. Your cooperation is greatly appreciated.

WORLDWIDE INQUIRIES & ORDERING

 **KYOTO KAGAKU co.,LTD**

<http://www.kyotokagaku.com>
rw-kyoto@kyotokagaku.co.jp

● **KYOTO KAGAKU HEAD OFFICE & FACTORIES**

15 KitaneKoya-cho, Fushimi-ku, Kyoto 612-8388,
JAPAN

TEL: +81-75-605-2510 / FAX: +81-75-605-2519

ALL AMERICAN REGIONS

 **KYOTOKAGAKU AMERICA INC.**

<http://www.kkamerica-inc.com/>
info@kkamerica-inc.com

3109 Lomita Boulevard, Torrance, CA 90505-5108,
USA

TEL: +1-310-325-8860 / FAX: +1-310-325-8867

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