ATOM MAX

Dental & Diagnostic Head Phantom

Model 711-HN

OUR MOST REALISTIC MAXILLOFACIAL PHANTOM FOR DENTAL CONE BEAM CT & PANORAMIC X-RAY

The CIRS Dental and Diagnostic Head Phantom is a standard of reference for diagnostic radiology of the head. The phantom is designed to assist technical and clinical staff in the selection, monitoring, training and verification of scanning parameters common to most radiological procedures requiring fine anatomical details.

The Model 711-HN provides a consistent tool for researchers, clinicians and technologists. It is ideal for determining optimum system settings, commissioning new equipment, monitoring system performance and training in dental X-ray, panoramic X-ray, CT and cone beam CT procedures.

The phantom includes an adjustable stand for positioning within a cone beam CT or panoramic X-ray system. The jaw of the phantom is slightly opened and front teeth are vertically aligned to replicate correct positioning with a bite guide. Please note that an actual bite guide can not be positioned in this product.

The phantom is constructed of proprietary tissue equivalent materials. ATOM®MAX is made of tissue simulating resins that mimic the X-ray attenuation properties of human tissue for both CT and therapy energy ranges (50 keV-25 MeV). The Model 711-HN approximates the average male human head in both size and structure. The phantom includes detailed 3D anthropomorphic anatomy including brain, bone, larynx, trachea, sinus, nasal cavities and teeth. The bones contain both cortical and trabecular separation. The teeth include distinct dentine, enamel and root structure including the nerve. The sinus cavities are fully open.
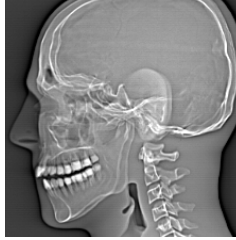
Features

- Includes detailed anatomical features
- Frankfurt plane identified to ensure proper alignment
- Tissue Equivalent from 50 keV to 25 MeV
- Positioning stand with six degrees-of-freedom
- Foam lined carry case included
- 4 year warranty

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CIRS
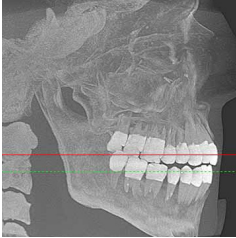## Tissue Simulation & Phantom Technology
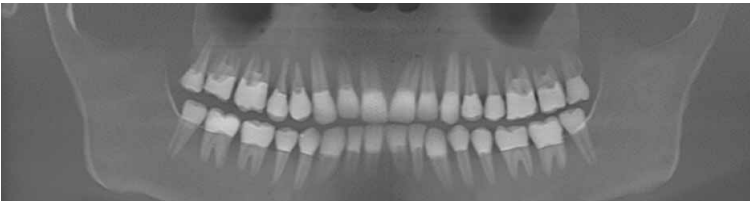
Model 711-HN phantom

3D CT reconstruction

Sagittal view

Lateral, Anterior Posterior, Superior Inferior, and Orthopantomogram 3D cone beam CT reconstructions

CAPABILITIES AND APPLICATIONS

- Commission X-ray, panoramic X-ray, CT and cone beam CT systems

- Learn how to properly position head for optimal images

- Test reconstruction techniques and algorithms for implant planning and maxillofacial reconstruction

- Train and evaluate personnel during implementation of new equipment and techniques

- Validate consistency of image quality

SPECIFICATIONS

APPROXIMATE DIMENSIONS:	18 cm x 22.3 cm x 27 cm (7.1" x 8.8" x 10.6")
WEIGHT:	Stand: 3.2 kg (7 lbs) Phantom: 6.4 kg (14 lbs) Shipping: 14.1 kg (31 lbs)
PHANTOM MATERIALS:	Epoxy Resin

MODEL 711-HN INCLUDES

QTY	DESCRIPTION
1	ATOM®MAX Dental & Diagnostic Head Phantom
1	Positioning Stand w/ soft sided carry case
1	Phantom carry case

ADDITIONAL OPTIONS

PART NO.	DESCRIPTION
038-20	SRS Frame Support Cups, Set of 4

SIMPLE TO SET UP AND EASY TO USE

The Model 711-HN stand allows accurate phantom positioning. The included stand is adjustable in the x-y-z axes as well as allowing rotations about each of these axes. The head easily screws onto the stand and locks into place.

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