

76-606DX

ATOM MAX Diagnostic Head Phantom

Technical Data



ATOM[®]_{MAX}

The 76-606DX ATOM MAX 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 76-606DX 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 to 25 MeV). The 76-606DX 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.

Key features

- Our most realistic maxillofacial phantom for dental cone beam CT and panoramic x-ray
- 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
- Carrying case included
- Four-year warranty

Simple to set up and easy to use

The 76-606DX 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.

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

Technical Specifications

Overall size (phantom only)
22.9 cm x 22.9 cm x 29.2 cm
(9 in x 9 in x 11.5 in)

Phantom weight
5 kg (11 lb)

Stand weight
3.2 kg (7 lb)

Shipping weight
13.2 kg (29 lb)

Ordering information

Model
76-606DX ATOM MAX
Diagnostic Head Phantom,
includes positioning stand
with soft sided carrying case
and phantom carrying case

About Fluke Biomedical

Fluke Biomedical is the world's leading manufacturer of quality biomedical test and simulation products. In addition, Fluke Biomedical provides the latest medical imaging and oncology quality-assurance solutions for regulatory compliance.

Today, biomedical personnel must meet the increasing regulatory pressures, higher quality standards, and rapid technological growth, while performing their work faster and more efficiently than ever. Fluke Biomedical provides a diverse range of software and hardware tools to meet today's challenges.

Fluke Biomedical Regulatory Commitment

As a medical test device manufacturer, we recognize and follow certain quality standards and certifications when developing our products. We are ISO 9001 certified and our products are:

- CE Certified, where required
- NIST Traceable and Calibrated
- UL, CSA, ETL Certified, where required
- NRC Compliant, where required

Fluke Biomedical.

Better products. More choices. One company.

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