## **HEAD CTA PHANTOM**

Age Category

Adult

Body Region

Head

Target Modality

CT

Diagnostic Features

Vasculature

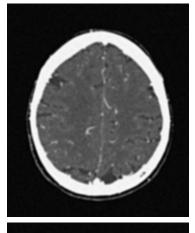
This phantom simulates a contrast medium enhanced head in arterial phase (CT angiography). The neck is included up to the first cervical vertebra. The vertex is included until approximately 0.5 cm below skin level.

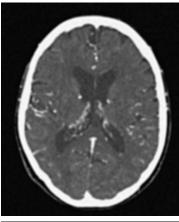
The phantom has no significant vascular pathologies.

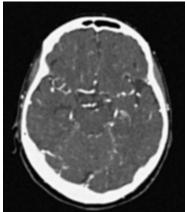
The phantom can be used in CT (including CBCT) to evaluate and optimize CTA imaging performance and post-processing applications such as vessel segmentation, including Alenabled applications. It is also nicely suited for training purposes.

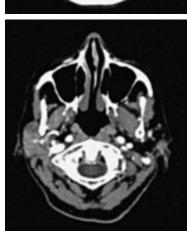
The phantom provides a detailed and realistic simulation of vascular structures, soft and bone tissue, including small details such as lymph nodes. Air voids are filled with a cellulose-polymer composite of approx. -160 HU.













## **HEAD CTA PHANTOM**



Specifications

Size Approx. 156 x 186 x 150 mm

Weight Approx. 2410 g

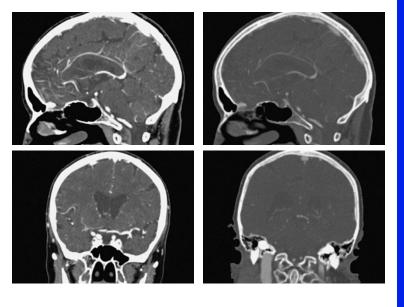
Base material Cellulose-polymer composite

Optimal 120 kVp (cf page 3)

tube voltage - adaptable upon request -

Diagnostic features

Realistic simulation of head vessels up to the first cervical vertebra, bone and soft tissues.



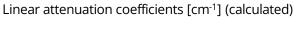
For more information visit www.phantomx.de

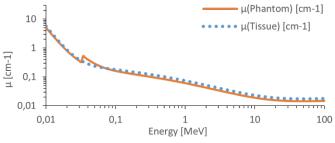
# **HEAD CTA PHANTOM**

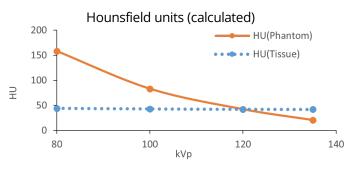
#### General indications

- The phantom is made of a cellulose-polymer composite material with properties similar to hardwood. If handled carefully, it will last a long time.
- The phantom is coated with a protective layer. If the protective layer is undamaged, the phantom can be cleaned using a damp cloth (water or mild detergent).
- Protect from direct sunlight.
- Maintain a storage temperature of 10 °C to 30 °C. If the phantom is exposed to temperatures below -10 °C or above 45 °C, it can be severely damaged.
- The phantom is not equipped for dose measurements with dosimeters and it is not suited for material characterization with dual energy CT.
- The phantom is not certified as medical device.
- Air voids are filled with cellulose-polymer composite of approx. -160 HU.

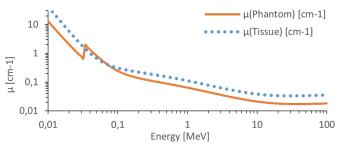
# Attenuation properties Soft Tissue

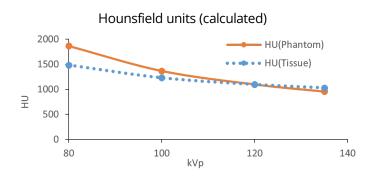






Bone Tissue
Linear attenuation coefficients [cm<sup>-1</sup>] (calculated)





Tissue Reference: Woodard HQ, White DR. The composition of body tissues. Br J Radiol. 1986.