

- Datasets with pathology
- Test Datasets
- Dataset Providers
- High Resolution Datasets

## Test Datasets

Design &

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1 [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#)



### [Head MRT Angiography 16Bits](#)

→ Head Angiography Dataset provided by Volvis Project Group of Tuebingen University, Germany.

3T MRT Time-of-Flight Angiography dataset of a human head. The dataset has been resampled into an isotropic voxel grid (hence the peculiar slice size). The 8 bits version can be found [here](#).

File Format: raw  
Bits per Voxel: 16Bits (10bits set)  
Size: 416 x 512 x 112  
Spacing (mm): 0.412, 0.412, 0.412

Courtesy of: [Özlem Gürvit](#), Institute for Neuroradiology, Frankfurt, Germany.

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### [Head MRT Angiography 16Bits Segmented](#)

→ Head Angiography Dataset provided by Volvis Project Group of Tübingen University, Germany.

3T MRT Time-of-Flight Angiography dataset of a human head. The dataset has been resampled into an isotropic voxel grid.

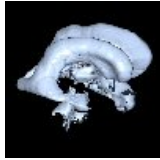
Also a segmentation of the arterial blood vessels is provided [here](#), where the first (negative) number is the number of all voxels of the segmentation, followed by the voxel array indices of the voxels of the segmentations.

The 8 bits version can be found [here](#).

File Format: raw  
Bits per Voxel: 8Bits  
Size: 256 x 320 x 128  
Spacing (mm): 0.66, 0.66, 0.66

Courtesy of: [Özlem Gürvit](#), Institute for Neuroradiology, Frankfurt, Germany. For the segmentation: [Dirk Bartz](#), VCM, University of Tübingen, Germany.

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#### [Head MRI CISS 8Bits](#)

→ 1.5T MRT 3D CISS dataset of a human head that highlights the CSF (Cerebro-Spinal-Fluid) filled cavities of the head. Also a segmentation of the cerebral ventricular system is provided [here](#), where the first (negative) number is the number of all voxels of the segmentation, followed by the voxel array indices of the voxels of the segmentations.

File Format : raw  
 Bits per Voxel : 8 Bits  
 Size : 256 x 256 x 124  
 Spacing (mm) : 0.9, 0.9, 0.9

Courtesy of: [Dirk Bartz](#), VCM, University of Tübingen, Germany.

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#### [Stented Abdominal Aorta 16Bits](#)

→ CT Scan of the abdomen and pelvis. The dataset contains also a stent in the abdominal aorta. No contrast agent was used to enhance the blood vessels.

File Format : raw  
 Bits per Voxel : 16 Bits  
 Size : 512 x 512 x 174  
 Spacing (mm) : 0.8398, 0.8398, 3.2

Courtesy of: [Michael Meißner](#), Viatronix Inc., USA.

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#### [Head Aneurysm 16Bits](#)

→ Vertebra Dataset provided by Volvis Project Group of Tübingen University, Germany.  
 Rotational angiography scan of a head with an aneurysm. Only contrasted blood vessels are visible.  
 The 8 bits version can be found [here](#).

File Format : raw  
 Bits per Voxel : 16 Bits  
 Size : 512 x 512 x 512  
 Spacing (mm) : 0.1953, 0.1953, 0.1953

Courtesy of: [Michael Meißner](#), Viatronix Inc., USA.

Original Page: [University of Tübingen Datasets Page](#)



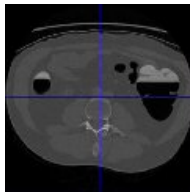
#### [Backpack Scan 16Bits](#)

→ CT scan of a backpack filled with items. The 8 bits version can be found [here](#).

File Format: raw  
 Bits per Voxel: 16 Bits (12 bits set)  
 Size: 512 x 512 x 373  
 Spacing (mm): 0.9766, 0.9766, 1.25

Courtesy of: Kevin Kreeger, Viatronix Inc., USA..

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#### Colon Prone 16 Bits

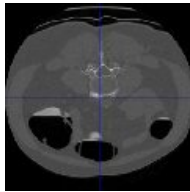
→ CT scan of abdomen in prone orientation, back faces ceiling, belly faces table.

The 8bits version can be found [here](#).

File Format: raw  
 Bits per Voxel: 16 Bits (12 bits set)  
 Size: 512 x 512 x 463  
 Spacing (mm): 0.625, 0.625, 1.0

Courtesy of: Walter Reed Army Medical Center, USA.

Original Page: [University of Tübingen Datasets Page](#)



#### Colon Supine 16 Bits

→ CT scan of abdomen in supine orientation (back faces table, belly faces ceiling).

The 8 bits version can be found [here](#).

File Format : raw  
 Bits per Voxel : 16Bits (12bits set)  
 Size : 512 x 512 x 426  
 Spacing (mm) : 0.625, 0.625, 1.0

Courtesy of: [Dirk Bartz](#), VCM, University of Tübingen, Germany.

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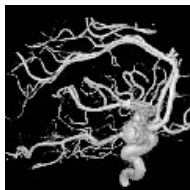
#### Colon Phantom 16 Bits

→ CT scan of a Colon phantom with several different objects and five pedunculated large polyps in the central object. The 8 bits version can be found [here](#).

File Format : raw  
 Bits per Voxel : 16Bits (12bits set)  
 Size : 512 x 512 x 442  
 Spacing (mm) : 0.9316, 0.9316, 0.5

Courtesy of: [Michael Meißner, Viatronix Inc., USA.](#)

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#### Aneurism

→ Rotational C-arm x-ray scan of the arteries of the right half of a human head. A contrast agent was injected into the blood and an aneurism is present..

File Format : raw  
 Bits per Voxel : 8Bits  
 Size : 256x256x256  
 Spacing (mm) : 1, 1, 1

Courtesy of: Philips Research, Hamburg, Germany

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