



CT-PORTABLE

Most CT-Systems are huge, slow and and bounded to a certain place...

In order to approach these problems PXR and the Fraunhofer EZRT developed the CT-PORTABLE, a mobile, compact tabletop system for the inspection of small objects made of plastics, textiles, ceramics, light metal, biological or other light materials.

It is the smallest mobile CT system worldwide!

With its dimensions of approx. 350 x 300 x 230 mm (l x w x h) the space requirement of the CT system is minimal, moreover the low weight of approx. 20 kg ensures maximum mobility. These features enable the user to apply the system flexibly at any location without the necessity of transporting the samples or components to a laboratory.

CT-PORTABLE is especially suitable for demonstration purposes as well as for mobile services or an application in arbitrary laboratories. The CT system can not only be utilized by universities or research institutions in the fields of e.g. biology, geology and archaeology, but also by the industry, especially for the nondestructive testing for quality assurance in the areas of electrics, plastics, textiles and ceramics. The range of applications also includes rapid prototyping.

FEATURES

- ▶ Industrial X-ray Computed Tomography (CT)
- ▶ 3D volume CT
- ▶ Non-destructive testing (NDT) – 2D and 3D
- ▶ Quality control independent of material
- ▶ Defect recognition (voids, cracks, ...)
- ▶ Contactless metrology
- ▶ CT reconstruction in real-time
- ▶ Easy operation
- ▶ Radiation safety better than 1 μ Sv/h
- ▶ Desktop system

X-RAY-SOURCE

Voltage	50 kV
Maximum output	50 W

DETECTOR

Pixel	1 MP
Pixelsize	48 μ m
Smallest 3D detail (voxel)	< 18 μ m

SPECIMEN

Diameter	45 mm
Height	65 mm
Weight	250g

DIMENSIONS

Footprint	350 x 300 mm
Height	230 mm
System weight	20 kg