

## Ultrasonic computed tomography

Article no: P5161200



### Principle

This experiment explains the fundamental principles of image formation with a CT algorithm. A test object is used to create an attenuation tomogram and a time-of-flight tomogram followed by a discussion of the respective differences.

### Benefits

- Ideal system for education: affordable compared to industrial system to demonstrate ultrasound-CT in a very comprehensible way
- With the same system mechanical scanning of an object can be performed, e.g. to create a B-scan image

### Tasks

1. Creation of several attenuation and time-of-flight tomograms
2. Variation of the device parameters
3. Discussion of the differences

### Learning objectives

- Ultrasonic echography (A-scan)
- Tomography
- Resolution

### Scope of delivery

Basic Set Ultrasonic Echography II	13924-99	1
Extension Set: CT Scanner II, for 13924-99	13925-99	1