

In order to verify the tube quality and to detect areas of less quality it is necessary to measure the focal spot. The in-house developed VisiConsult pinhole camera allows to take and analyze digital images of the actual focal spot of any X-ray tube in compliance to DIN EN 12543-2. The cycle time per image is roughly 30 seconds. The digital detector is realized with an industrial CCD camera and a fluorescent screen in connection with a PC.

Included is a software suite that can segment the image to measure the focal spot size. The results can be reported into a Microsoft Excel Report or printed into the retrieved image for documentation. The standard camera is compatible to unipolar x-ray tubes up to 225 kV. The easy changeable pinhole allows measuring both focal spots at double focus tubes with e.g. 1 mm and 3 mm focal spot size.

The past approach to use film or imaging plates is extremely inefficient and requires additional equipment. The digital camera approach highly reduces the needed time and allows a reliable report and storage function for future reference

- Fast and easy focal spot evaluation
- No imaging plates or film developing needed
- Easy measurement of the focal spot size
- Comprehensive report generation functionality
- Magnification: 2x/ 4x
- Focal spot inspection up to 5 mm focal spot size
- Changeable pinhole (30 µm/ 100 µm), no tools needed
- Changeable scintillator
- Screwable on unipolar NDT x-ray tubes
- Software controlled exposure time

