

# **Ways to improve x-ray images with new tube designs**

**Marcel Odermatt<sup>1</sup>, Michael Hubler<sup>1</sup>**

<sup>1</sup>Product Management, Comet AG, Switzerland

Getting the best X-ray image needs to have not only the best detector and setup. X-ray tubes properties like focal spot size and distribution, target angle and off focal radiation provide a significant part to get the best image. This paper shows the influence of different properties and how to optimize them. Keywords: x-ray, x-ray source, x-ray images, dose profile, closed x-ray tube, focal spot, micro focus Getting the best x-ray image needs to have not only the best detector and setup. X-ray tubes properties like focal spot size and distribution, target angle and off focal radiation provide a significant part to get the best image. This paper shows the influence of different properties and how to optimize them. Keywords: x-ray, x-ray source, x-ray images, dose profile, closed x-ray tube, focal spot, micro focus Getting the best x-ray image needs to have not only the best detector and setup. X-ray tubes properties like focal spot size and distribution, target angle and off focal radiation provide a significant part to get the best image. This paper shows the influence of different properties and how to optimize them. Keywords: x-ray, x-ray source, x-ray images, dose profile, closed x-ray tube, focal spot design, micro focus