

## QUART thinks small for X-ray and QA performance

Advanced materials and techniques enable downsizing in every area of applied technology. This is especially true for the X-ray meter industry. Germany-based QUART has provided the most compact meter equipment for X-ray service and QA (quality assurance) for over 30 years. From the very beginning in the late 1970s, the small size of its equipment has been the company's hallmark.

Traditionally, QUART has been offering the most compact solid-state detectors for diagnostic X-ray measurements ranging from mammography, radiography, fluoroscopy, dental and other modalities. In fact, the company was the first in the world to introduce semiconductors for X-ray dose meters at a time when ion chambers were the standard.

The advantages of the small size enabled by modern technology are clear to see. Ease of use is achieved even for the most demanding measuring tasks. QUART detectors are slim enough to



allow measurements behind a scatter radiation grid at DR systems, or to position the detector in the bucky of a mammography system, which serves to verify image receiver dose values and check equipment attenuation factors as provided by the manufacturer.

Only QUART detectors can be used for direct dose-width product measurements

in dental panoramic applications, thereby saving users the expense of having to invest in additional, more cost-intensive equipment. It also makes it possible to use that parameter as a diagnostic reference value, as suggested by ICRP and NRPB. The small size also allows more direct, but reproducible, detector positioning in almost no time.

As an expert in X-ray service and QA, QUART's equipment portfolio also includes specialised tools for image quality analyses. As with all QUART equipment, these tools are also made in Germany.

Further information: QUART [www.quart.de](http://www.quart.de)