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Shimadzu Introduces New Flat-panel Technology

Shimadzu has introduced a new flat-panel detector (FPD). The 'Safire' offers the first detector with directconversion technology, and advantages in image quality and dose efficiency in comparison with indirect FPD technology. The new technology enables clearer high-resolution images with less signal deterioration and reduced noise. The top layer of the FPD, an x-ray conversion film, converts x-rays passing through the patient's body directly into electric signals using amorphous selenium. A thin-film transistor array then collects the signal from each pixel and transfers the data immediately to the processing system.

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