



IMIX DIGITAL RADIOGRAPHY

Powered by Arcoma technology and innovation

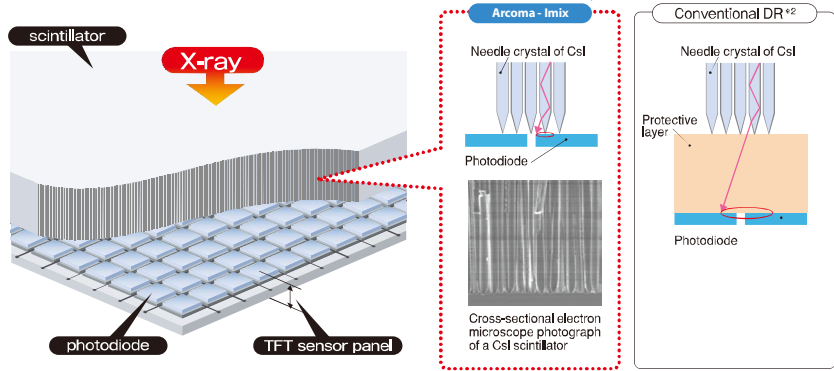
High Image Quality & Lower Doses

Scintillator Direct-Contact Technology

We succeeded in creating a new technology whereby a CsI scintillator is made to contact directly over a TFT^{#1} sensor panel without any protective layer in between them. This technology has made it possible to guide the light emitted from the scintillator to the photodiode without causing the light to be dispersed at the interface with the TFT sensor.

Original CsI!

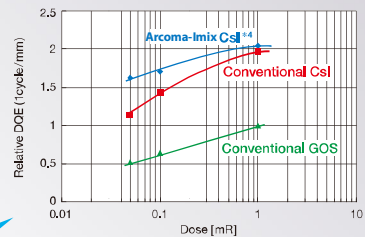
● Schematic cross section of scintillator and TFT-panel



*1 TFT... Thin Film Transistor *2 FlexDR C30

High Image Quality and Lower Doses

● A High DQE at a Low Dosage



*DOE was measured by setting each scintillator on the same measuring TFT sensor.

*4 CsI... Cesium Iodide

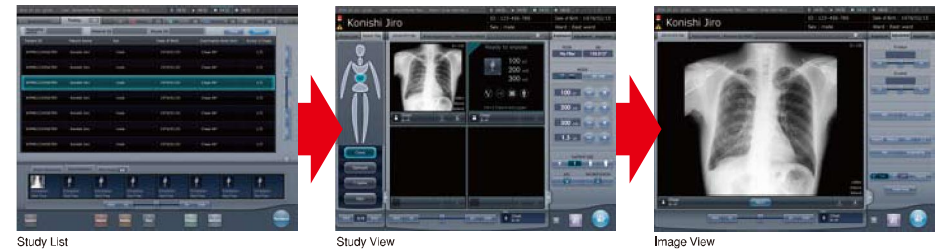
High DQE!



Quick Preview and Smart GUI

After exposure, a preview image immediately appears on the display of the new CS-7 console in less than two seconds. The CS-7 has a user-friendly graphic interface adding new and powerful proprietary functions. GUI design can be modified to customer preferences flexibly, succeeding the conventional console design.

● Screen Sequence



Power-saving Technology

Patient safety is of primary importance, therefore the lithium ion capacitor, the world newest technology, was adopted as a battery technology which has many advantages despite of demanding a lower power consuming panel design, which has been overcome by employing low power ICs and a power-saving control.



New Battery Technology Achieves Light-weight yet Rigid Body

The lithium ion capacitor has a charge and discharge cycle life that is tremendously longer than that of the lithium ion battery and does not markedly decrease in capacity even after it has continuously been used for many years. Therefore, it is possible to be built in to Imix Det. and also friendly to the environment. In this case, the structure of the cassette case has become so simple that it is possible to significantly reduce the weight of the cassette and increase the mechanical strength of the cassette.



Reliable, Rapidly Rechargeable and Long-Life Battery

The lithium ion capacitor, which charges quickly in a battery charger or through a tethered connection, has a long charge and discharge cycle life that does not need to be replaced during the expected life cycle of the detector. If the capacitor gets exhausted in emergency, Imix Det. gets over 10 images by the capacitor being recharged for only three minutes.

■ Characteristics

Battery Life Cycle	Same as the product life cycle
Charging Time Empty to Full	30 minutes with battery charger
Operating Time	2 hours typ. at 60 images/hour