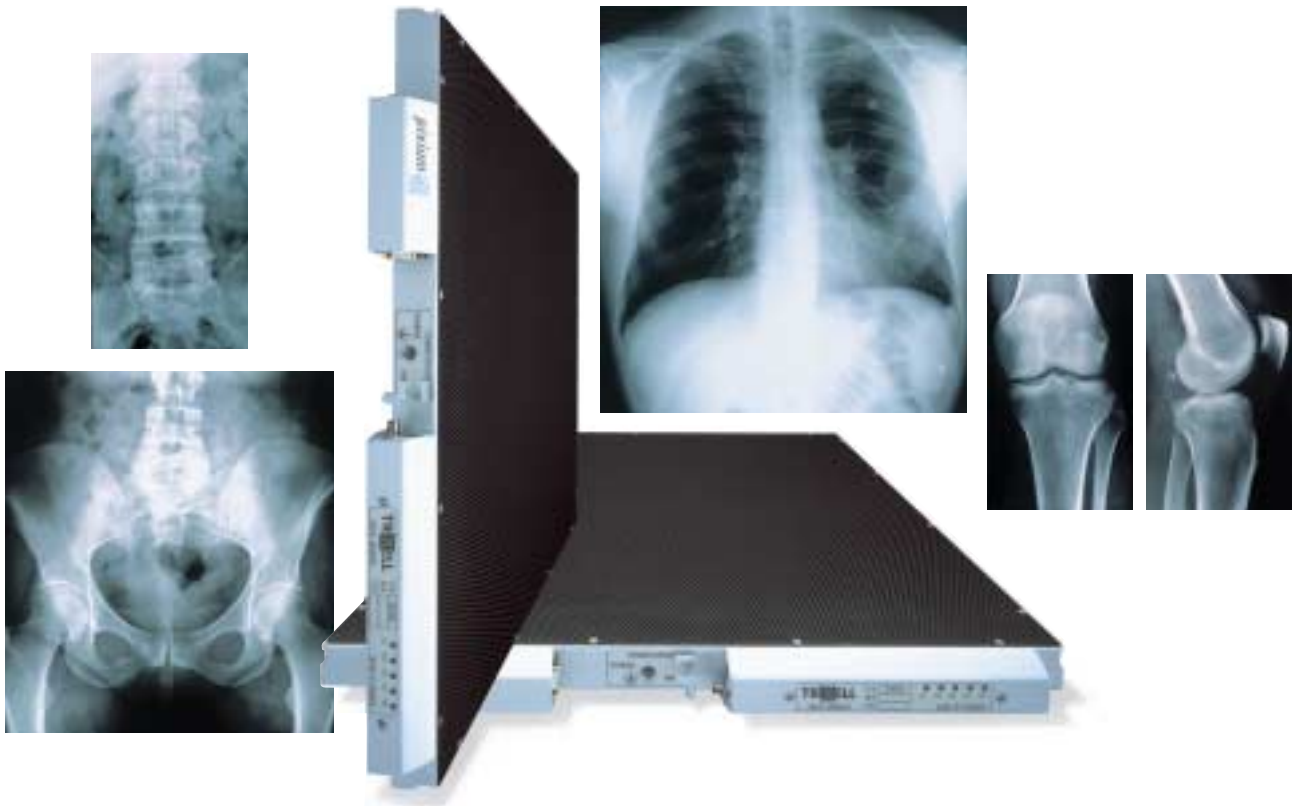


pixium 4600

Digital Detector for Radiography



Trixell's innovative Pixium 4600 digital flat-panel X-Ray detector offers outstanding advantages to the users of radiological equipment.

- Rapidity: immediately usable images, in a single exposure.
- Cost savings: no time or resources spent in developing film.
- High performance: Pixium 4600 can be used for all types of examinations, thanks to the large square format, high resolution and wide dynamic range.
- Easy image management: the Pixium 4600's digital image allows the connection to digital transmission, distribution and archiving systems.

TRIXELL
Winning Technology

pixium 4600

Designed to replace conventional film-based radiology, the Pixium 4600 digital X-Ray detector reflects Trixell's proven expertise in the key technologies and in the criteria that define the quality of medical imaging. At the same time, Trixell draws on its extensive experience in determining operating specifications and system integration requirements.

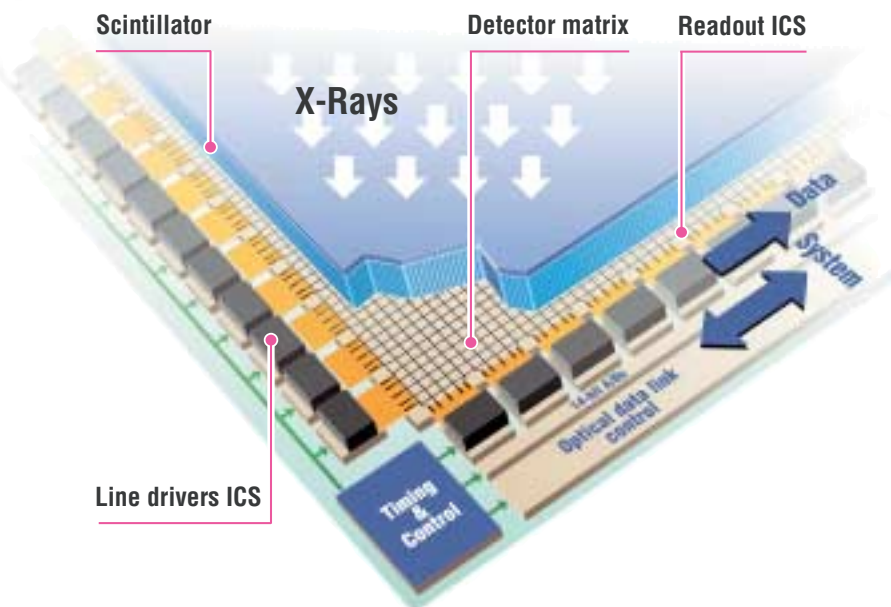
Setting the standard in digital imaging.

The Pixium 4600 combines amorphous silicon technology with a cesium iodide scintillator, making it an extremely reliable, high-performance X-Ray detector. Virtually the entire radiology market worldwide has opted for this combination of technologies, making it the de facto technological standard in medical imaging.

Characterized by high reliability and long product life, cesium iodide technology brings a number of proven advantages to the Pixium 4600, including highly efficient absorption of X-Rays - for lower dose X-Ray exposure - and unrivaled image quality, as shown by its excellent DQE. The amorphous silicon photodiode array directly converts light into an electrical signal, to be processed by custom electronics.

Instantaneous availability of 16,000 grayscale images.

Pixium 4600's very-high-performance electronics, featuring extremely low noise, means instantaneous image acquisition and 14-bit digital data conversion with 16,000 grayscales. Because of this exceptionally large dynamic range, only one exposure is required for diagnostic imaging, no matter what kind of examination is involved. The Pixium 4600 is much faster than a conventional radiography system. The digital image is available immediately for processing and display.



X-Ray characteristics

| | | |
|--------------------------------|-----------------------------------|--------------|
| X-Ray generator voltage range | 40 to 150 | kVp |
| X-Ray exposure | 1.25 to 2.5 μ Gy / 150 to 300 | μ R |
| X-Ray saturation dose (linear) | 30 μ Gy / 3 500 | μ R max. |

Imaging specifications

| | | |
|------------------------|--------------|---------|
| Pixel pitch | 143 | μ m |
| X-Ray sensing surface: | | |
| • horizontal | 3 001 pixels | 429 mm |
| • vertical | 3 001 pixels | 429 mm |

The quality of a digital image

is defined by the combination of high DQE and pixel size. Trixell has combined a high DQE (over 3 times greater than that of 400 speed film) with 143 micron pixels, to give you today's highest detail detectability.



Format and image quality suited to all applications.

The Pixium 4600 is designed for all general radiological applications. Its square format (43 cm - 17") satisfies all large-field requirements, without requiring detector rotation. The slimline design ensures easy installation.

With its 143 micron pixel pitch, its excellent DQE and its distortion-free, high-precision 9 million pixel resolution, the Pixium 4600 is perfectly adapted to chest, abdomen, extremities and skeletal examinations. In short, Pixium 4600's extraordinary performance leads the way to the design of all-digital radiography systems.

Trixell has also leveraged its long-standing relationship with radiological equipment manufacturers to produce an ergonomic design with mechanical and electronic interfaces that further enhance the integration and operation of the Pixium 4600.



Operation

| | | |
|-------------------------|-------|------|
| X-Ray pulse duration: | | |
| • single-shot mode | 500 | ms |
| • special exposure mode | 3 200 | ms |
| Image readout time | 1.25 | sec. |
| Dynamic range | 14 | bits |

Mechanical characteristics

| | | |
|--------------------|------------------|---------|
| Overall dimensions | 535 x 490 x 45.5 | mm |
| Weight | 17.2 | kg typ. |

TRIXELL

Winning Technology

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