

REAL-TIME DYNAMIC X-RAY DETECTOR

- ▶ The Pixium 2630 S is designed for X-ray systems used in surgery, especially mobile C-arms.
- ▶ The detector operates in different modes to support all surgical applications, whether cardiovascular, vascular, neurological or orthopedic, as well as pediatric operations.
- ▶ All systems fitted with the Pixium 2630 S become 100% digital. They deliver very-high-quality, distortion-free images in real time, and support 3D views when needed for specific applications.



FLUOROSCOPY

Pixium 2630 S

Multi-application, with dedicated operating modes





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HIGH SENSITIVITY, LOW DOSE

The Pixium 2630 S is based on Trixell Pixium® Csl technology, featuring exceptional X-ray absorption capacity. This means that the system can generate high-quality images in real time, with very low radiation doses for the patient.

The 287 x 261 mm image is perfectly suited to all surgical applications. It offers high dynamic performance (16 bits) and high detection quantum efficiency (DQE), reflecting the detector's performance in terms of sensitivity, resolution, contrast and noise.

A MULTI-APPLICATION DETECTOR WITH SEVERAL DEDICATED OPERATING MODES

The Pixium 2630 S can operate in different modes, including a graphics mode, to support operating speeds of 15, 25, 30, or up to 60 images/second for pediatrics. Switching between modes is virtually instantaneous (250 to 300 ms). The frequency and quality of the images is fully compatible with 3D reconstruction.

COLD START

Integrated in a mobile surgical C-arm to move easily between rooms, the Pixium 2630 S does not require a cooling system and is ready to go just one minute after being turned on.

EASY TO INTEGRATE, EASY TO USE

The Pixium 2630 S is a flat-panel detector suited for use with surgical C-arms. It enhances overall system ergonomics during surgery, and never interferes with the surgeons.

The electrical, mechanical and software interfaces were developed to facilitate integration in a complete system.

The Pixium 2630 S comes with a complete pre-processing software suite for image acquisition, calibration and formatting, which also makes system integration easier.

Characteristics			
Scintillator		Pixium® Csl	
Pixel pitch		184	µm
X-ray sensitive area		287 x 261	mm (V x H)
Sensitive area		1560 x 1420	pixels (V x H)
Available binning		2 x 2	
Zoom modes (square)	26.1 / 23.5 / 20 / 18.8 / 15 / 11 / 9.4		cm
X-ray generator voltage range		40 -150	kV
DQE @ 0 lp/mm		70	%
MTF @ 1 lp/mm		59	%
Overall detector dynamic range		103	dB
AD conversion		16	bits
Interfaces			
DC input power		24	V
Electrical power pulsed mode		18.5 (max)	W
Electrical power continuous mode		21 (max)	W
Communication interface		Gigabit Ethernet for SW commands Electrical for signals (frame request / Xray enable)	
Data interface		C-link	
Mechanical characteristics			
Detector dimensions		338 x 392 x 84	mm
Detector weight		15	kg
Cooling		passive cooling	

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