

Key Features

- 100 μm CMOS Active Pixel Design
- · Best-in-class DQE at any dose level
- · Low readout noise
- · Negligible image lag
- Up to 45 fps at full resolution
- GigE and CameraLink interface options

Typical Applications

- Dental 3D-CBCT
- Orthopedics
- Veterinary
- 6" II-CCD replacement

Xineos CMOS flat detectors deliver high speed, low dose imaging at full resolution.

The Xineos-1313 offers advanced capabilities including 30 frames per second performance at 13 cm x 13 cm imaging area with full 100 μ m pixel resolution. Add to that the industry's lowest electronic noise and a Gigabit Ethernet interface that will reduce your system cost and ease your design-in efforts.

The Xineos-1313 is also compatible with frame-based panoramic imaging. At full resolution with a 1 cm x 13 cm Region of Interest, frame rates in excess of 300 fps are achieved.

The Xineos-1313 detector has been designed for the lowest dose fluoroscopic imaging. Its CMOS technology enables real time imaging for orthopedic and other diagnostic and interventional applications that require real-time imaging at the lowest possible patient dose.

Specifications

·	CD22 models	CD33 models
Saturation Dose (RQA5)	2 uGy (0.2 mR)	9 uGy (0.9 mR)
Dynamic Range	69 dB	72 dB
Random Noise	6 ADU	4 ADU
DQE(0) (RQA5)		
- @>10% of Saturation Dose	70%	70%
- @10 nGy (1 μR)	68%	

	All Xineos-1313 models
Resolution	1316x1312 pixels (1.7 Mpxl)
Pixel Pitch	100.1 μm
Active Area	131x131 mm (5.1"x5.1")
MTF (@1 lp/mm, RQA5)	58%
Frame Rate	30 fps (GigE) / 45fps (CL)
	60 fps in 2x2 binning mode
	300 fps in Panoramic ROI
	mode
ADC Conversion	14 bits (16.384 levels)
Image Lag	<0.1%
Data Interface	Gigabit Ethernet (GigE) or
	CameraLink Base (CL)
Power Supply	+12 Vdc
Power Consumption	11 W (GigE), 8 W (CL)

Power Supply +12 Vdc
Power Consumption 11 W (GigE), 8 W (CL)
Weight 2.4 kg (5.3 lbs)
Pb-shielding Integrated
IP Classification IP40

Operating Temperature +10..+40°C X-ray Energy Range 40..125 kV

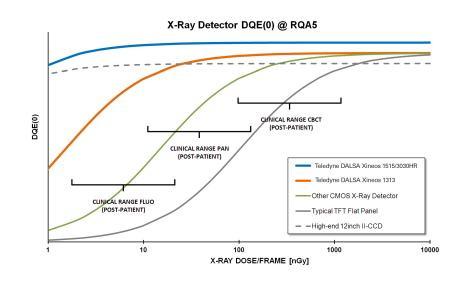


Xineos-3030HR Ultimate 12" detector delivering highest signal-to-noise ratio at low dose levels



Detective Quantum Efficiency (DQE):

To become an accurate indicator of detector performance, DQE value must be reported at a specific dose value. For dynamic X-ray applications the meaningful doses should be very low. This requirement is the primary goal of the Xineos architecture. While Xineos routinely achieves 70% or higher DQE at doses of 200 μ R, the detector performance is not compromised at 1 μ R entrance dose level.



www.teledynedalsa.com

Americas

Waterloo, ON +1 519-886-6000 sales.sensors@teledynedalsa.com

Europe

Eindhoven, The Netherlands +31 40-259-9000 sales.sensors@teledynedalsa.com

Asia Pacific

Tokyo, Japan +81 3-5960-6353 sales.sensors@teledynedalsa.com

Shanghai, China +86 21-3368-0027 sales.sensors@teledynedalsa.com



Xineos-1515 Extended field-of-view coverage with only