

XRD 1621 xQ

Flat Panel Detector



OVERVIEW

Varex Imaging's XRD 1621 xQ is a high speed, large area amorphous silicon Flat Panel X-ray detector for high dose industrial applications.

The XRD 1621 xQ supports a full 41 x 41 cm² field of view, is available with several scintillator options and supports a broad range of energy levels from 20 kV to 16 MV. This detector has a 200 µm native pixel pitch and operates at 40 fps at full resolution and full field of view; it also supports different fields of view and binning modes.

Rapid system integration is accomplished with integrated trigger and X-ray synchronization, a frame grabber providing real-time image-processing and a comprehensive software library for image acquisition and processing.

FEATURES AND BENEFITS

- High resolution with high speed
- 40 fps @ 200 µm
- Selectable Modes up to 200 fps
- Designed for 24/7 Applications
- Ultra high sensitivity
- Up to 16 MV
- Real time corrections

APPLICATIONS

- Inline Non Destructive Testing (NDT)
- Inline CBCT
- Metrology
- Scientific applications

Technical Specifications

SENSOR

Panel	Amorphous silicon
Scintillator	CsI: TI or various Gadox
Pixel Size	200 μm pitch
Pixel Matrix	2048 \times 2048
Total Area	409.6 mm \times 409.6 mm

READ OUT MODES

Binning - 1 \times 1	
Pixel Matrix	2048 \times 2048
Pixel Pitch	200 \times 200 μm^2
Max. Frame Rate	40 fps
Binning - 2 \times 2	
Pixel Matrix	1024 \times 1024
Pixel Pitch	400 \times 400 μm^2
Max. Frame Rate	75 fps

(Additional read-out modes are available.)

ELECTRONICS

ADC	16-bit
Charge Amplifier	Low noise ASICs with user selectable gains

COMMUNICATIONS

Data I/F	Fiber optic to PCIe frame grabber
Software	64 bit Windows® / Linux OS

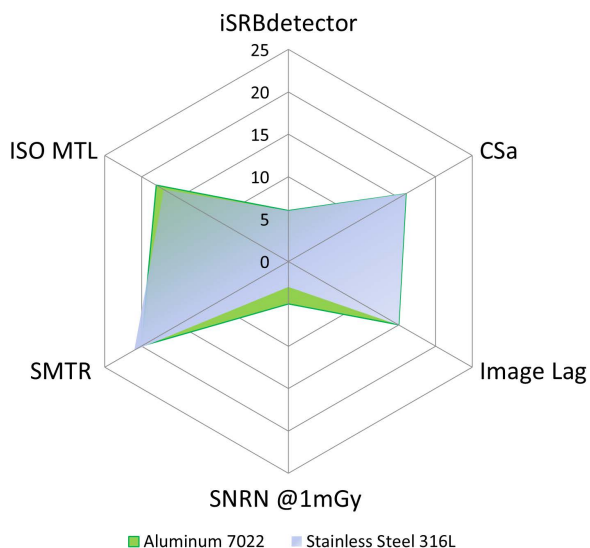
IMAGE PROCESSING

Type . . . Real time offset, gain, defective pixel corrections on frame grabber

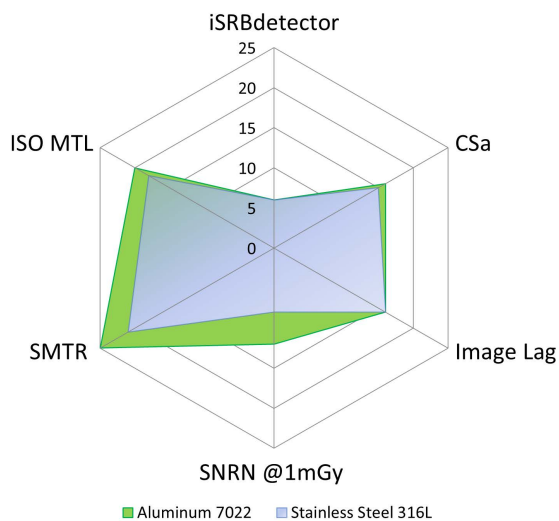
MECHANICAL

Size	672 x 599 x 44 mm
Weight (approx.)	25 kg

XRD 1621 AQ14 @40Hz



XRD 1621 CQ23 @40Hz



¹ Unless otherwise specified, Varex Imaging Flat Panel X-ray Detectors are components intended to be integrated into products by X-ray system manufacturers. System manufacturers are responsible for qualifying and validating their products for their intended uses and meeting all applicable regulatory requirements. Contents in this document are subject to change without notice.



USA HEADQUARTERS
Salt Lake City, UT
P: +1-801-972-5000

GERMANY
Walluf
P: +49-6123-971-300

CHINA
Wuxi
P: +86 510 8820-1652

For a complete listing of our global offices, visit www.vareximaging.com

© 2024 Varex Imaging Corporation. All Rights reserved. Production of any of the material contained herein in any format or media without the express written permission of Varex Imaging Corporation is prohibited.