

XRD 1621 xN ES

Industrial Flat Panel Detector



Superior Image Quality High Dynamic Range

Varex Imaging XRD 1621 Flat Panel X-ray Detector (FPD) is a member of the Varex Imaging family of 16-inch (41 cm) field of view amorphous silicon (a-Si) FPDs.

OVERVIEW

Varex Imaging XRD 1621 FPDs provide a dynamic range exceeding 88 dB and frame rates up to 30 frames per second. XRD 1621 xN supports a broad range of energy levels from 20 kV to 15 MV and is available with several scintillator options. System integration is accomplished via a frame grabber with a customized fiber-optical interface. The frame grabber is designed to perform on-board corrections including Multiple Gain Correction at up to 10 signal levels. Rapid system integration is accomplished via optical data communication, integrated trigger and X-ray synchronization circuitry. A comprehensive software library for image acquisition and processing is also provided.

The wide energy range, variable frame rates and scintillator options allow the Varex Imaging XRD 1621 xN to meet the component requirements of industrial non-destructive testing, as well as life and physical science applications¹.

FEATURES AND BENEFITS

- 200 μm pixel pitch
- 65,536 grey levels (16-bit ADC)
- Ultra high sensitivity
- Live images @ 30 fps
- Suitable for a wide range of X-ray energies
- Selectable gain setting
- Galvanic isolation by fiber-optical interface

APPLICATIONS¹

- Non-destructive testing
- 3D Cone Beam CT
- Metrology
- Scientific applications

