

# XRD 1611 xP

## Industrial Flat Panel Detector



## Superior Image Quality High Dynamic Range

XRD 1611 xP is the next generation of Varex Imaging's family of 16-inch (41 cm) amorphous silicon Flat Panel X-ray Detectors.

### OVERVIEW

Varex Imaging XRD 1611 xP Flat Panel X-ray Detectors provide a dynamic range of over 84 dB and frame rates up to 15 frames per second. XRD 1611 xP 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 with integrated trigger and X-ray synchronization circuitry. A comprehensive software library for image acquisition and processing is also provided.

Wide energy range, variable frame rates and multiple scintillator options allow the Varex Imaging XRD 1611 xP to meet demanding component requirements of industrial non-destructive testing, as well as life and physical science applications<sup>1</sup>.

### FEATURES AND BENEFITS

- Greater than 16 million pixels
- 100  $\mu\text{m}$  pixel pitch
- 65,536 grey levels (16-bit ADC)
- Ultra high sensitivity
- Live images @ 15 fps
- Suitable for a wide range of X-ray energies
- Selectable gain setting
- Galvanic isolation by fiber-optical interface

### APPLICATIONS<sup>1</sup>

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

