

Making the Invisible Visible

AZURE 3131Z-100 Dynamic Detector



OVERVIEW

The Varex Imaging AZURE is a family of new dynamic detectors from the world's leading manufacturer of X-ray components. The AZURE uses a state-of-the-art and advanced IGZO sensor which, when combined with Varex Imaging's low-noise electronic design and advanced scintillators, provides excellent low-dose performance. This performance comes with the reliability and robustness for which Varex Imaging is renowned.

The AZURE 3131Z-100 is designed for use in Fluoroscopy, Interventional X-ray and CBCT systems where the improved electronics and scintillator enable excellent low-dose performance. This provides linear performance over a wide dose range while minimizing exposure to both patient and staff. High frame rates are possible for smooth motion fluoroscopy and fast scans in 3D systems.

FEATURES AND BENEFITS

PERFORMANCE

- Up to 40 fps at full resolution
- 100 μm pixel pitch
- Significantly improved low-dose performance*

INTEGRATION

- Simple integration with on-board corrections
- Image processing capabilities
- Simplified SDK
- Programmable ROI for Zoom modes

MECHANICAL

- Design for reliability
- Simple mechanical interface



LOW DOSE PERFORMANCE

AZURE 3131Z-100 is more sensitive, providing excellent image quality at lower dose levels*

HIGH FRAME RATE

AZURE 3131Z-100 allows for frame rates up to 40 fps for smoother motion at full resolution

IMAGE PROCESSING

On-board corrections for simple integration

TECHNICAL INFORMATION

Scintillator	High Brightness CsI
Pixel Matrix (Total)	3072 x 3072
Pixel Pitch	100 μ m
Frame Rate (1 x 1)	40 fps
Frame Rate (2 x 2)	80 fps
Active Area (Total)	307 x 307 mm
Interface	10Gb/s Ethernet

*Comparison is with Varex Imaging 3030DXV

For more information about the 3131Z, please contact your Varex Imaging representative.

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.



VAREX
IMAGING

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

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