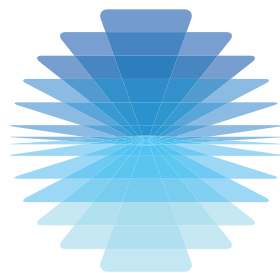


PRODUCT DATASHEET

XC-ACTAEON

XCounter
A Direct Conversion Technology

INDUSTRIAL PHOTON COUNTING DETECTOR



Direct Conversion

Empowered X-RAY Imaging

MEDICAL - INDUSTRIAL - DENTAL

XC-ACTAEON

INDUSTRIAL PHOTON COUNTING DETECTOR

Setting new standards in imaging speed, the 2000 fps XC-ACTAEON series brings the best in photon counting direct conversion imaging to the market. With powerful dual energy capability, unrivalled energy discrimination and unsurpassed charge sharing correction, XC-ACTAEON detectors provide solutions for the most stringent demands. The combination of imaging speed and sensitivity makes the XC-ACTAEON the ideal solution for advanced research applications and customers whose requirements go beyond the limits of other X-ray detector technologies.

IMAGING PARAMETERS AND PERFORMANCE

Pixel Technology

Photon Counting

Energy Discrimination

Dual Energy

Sensor material and thickness

Cadmium Telluride (CdTe) : 0.75mm (standard energy)

Cadmium Telluride (CdTe) : 2.0mm (high energy)

Pixel size

100 μm

Pixel Fill Factor

100%

Tile Gap

100 μm

X-ray Energy range

10kVp to 300kVp

Active sensor area

25mm width

12.8mm, 25.6mm, 38.4mm and 51.2mm length

Count Rate Range

Up to 200 Mcps per mm^2

Imaging speed

10,000lines/s + (full resolution)

Maximum Framerate

Up to 2000 fps

MTF

80 % @ 2lp/mm, 45 % @ 5lp/mm,

DQE (0)

>80% (RQA5 spectra, 6 μGy , SID 1m)

Lag

0% (after X-ray 6 μGy)

Ghosting

<0.1% 1min after X-rays (6 μGy)

ELECTRICAL INTERFACE

Data interface

Gigabit Ethernet

Power supply

PoE+ / 12V DC

Trigger modes

SW, HW, HW gated (200ns – 1s)

External Trigger

Opto coupled 5V, 12-24V with external resistor

ENVIRONMENTAL CONDITIONS

Operating temperature range

+15 to 30°C @ 30% to 85% humidity

Storage temperature range

-10 to 50°C @ 10% to 95% humidity

Housing

IP20

X-ray window

Carbon Fibre

SOFTWARE

Software GUI included

Fully flexible SDK included

Supported operating systems

Windows 7 onwards

This datasheet contains typical information specific to products manufactured at the time of its publication. Direct Conversion AB. reserves the right to amend the specifications at any time. Contents herein do not constitute a warranty. © Direct Conversion AB.

XC-Actaeon Product Data Sheet 001.01_ver1.0_20190925

【製造元】



Direct Conversion
A VAREX IMAGING COMPANY

【お問い合わせ先】



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