

TECHNICAL DATA

XGENUS VEGA SIZE 1

External dimensions 38.6 x 24.7 x 5.2 mm / 1.6 x 1.0 x 0.2 in

CMOS matrix size 1
(rounded angles)
Detector active surface in size 30 x 20 mm (600 mm²)
1.2 x 0.8 in (1.0 in²)

Detector active surface in pixel 1500 x 1000 pixels

Pixel dimensions 20 x 20 μm

XGENUS VEGA SIZE 2

External dimensions 43.2 x 30.8 x 5.2 mm / 1.7 x 1.2 x 0.2 in

CMOS matrix size 2
(rounded angles)
Detector active surface in size 34 x 26 mm (900 mm²)
1.3 x 1.0 in (1.3 in²)

Detector active surface in pixel 1700 x 1300 pixels

Pixel dimensions 20 x 20 μm

GENERAL SPECIFICATIONS (DIGITAL DETECTOR SIZE 1 AND 2)

Sensor technology CMOS

Scintillator Gadox (std) / CsI (HD)

Detector wire length 3 m / 9.9 feet

Grey levels 14 bits (16384 grey levels)

Connection Standard USB port:
USB 2.0 High Speed (480 Mbit/s) and USB 3.0

Nominal system consumption 0.5 VA

Entry voltage 5V (with USB connection)

Entry current 0.15 A max

Operating temperature From +10°C to 40°C / from 50°F to 104°F

Maximum temperature 12°C (54°F) higher than maximum environmental temperature of 40°C (104°F)

Detector resolution Theoretical: 25 lp/mm Real: 12 - 14 lp/mm (std) 18-20 lp/mm (HD)

CTF – Contrast Transfer Function
(at 70 kVp - 1,5 mm ABS filter) 0,08 @ 10 lp/mm

OUTPUT - LSB
(at 70 kVp - 1,5 mm ABS filter) 1400 @ 100 μGy

CMOS lifetime Typical 100.000 cycles