

Y.Cheetah - Technical Data (Standard)



General Product Features

Detail detectability	< 500 nm
Time to first image	~ 10 s
Reconfiguration time	< 60 s
µCT scan time	> 7 s
µCT reconstruction time	~ 90 s
Access for sample loading [mm]	Large autom. door (690 x 650 mm ²)
Visual interface	Large window (520 x 370 mm ²) Large 24" monitor (adjustable)
Zoom ⁺	yes
PowerDrive	yes
Power boost factor	33x
Image stabilization	Air suspension

X-Ray Tube

Tube type	Open microfocus tube
Target	Transmissive
Target material	Tungsten
Voltage range	25-160 kV
Current range	0.01-1.0 mA
Max. tube power	64 W
Max. target power	15 W
Detail detectability	< 1 µm
X-Ray intensity control	TXI

X-Ray Tube Option

Tube type	Open multifocus tube (MFT)
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Image Chain

Detector type	Panel 1308 High Speed
Number of pixel	1,004 x 620 pixel
Pixel size	127 µm
Field of view (max.)	127 mm x 78 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	17,500x
Frame rate (max.)	30 fps
Image chain	16 bit

Image Chain Option

Detector type	Panel 1313 High Speed / Panel 1313 Ultra High Speed*
Number of pixel	1,004 x 1,004 pixel
Pixel size	127 µm
Max. inspection area per image	127 mm x 127 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	17,500x
Frame rate (max.)	30 fps / 60 fps*
Image chain	16 bit

Electrical Data

Power supply	400V/3N/PE/AC±10%, 50/60Hz
Fuse protection	3 x 16 A
Power consumption	P = 2.5 kVA max.

Physical Dimensions

Width / depth / height [mm]	~ 1,650 / 1,400 / 1,850
Weight	~2,200 kg

Image Processing

Operating system	Windows 7
Y.FGUI Basic	Click & Center, Frame & Zoom, AIM, Grid Inspection, Integrator, Contrast, Gamma, etc.

Image Processing Option

Y.FGUI Extended	BGA, Void Calculation, AVI rec.
Y.FGUI Map and Report	
Y.FGUI Traceability	

Manipulation

Manipulation control via	Mouse & joystick
Inspection area (max.)	460 mm x 410 mm (18" x 16")
Sample size (max.)	800 mm x 500 mm (31" x 19")
Sample tray axes	X, Y
Tube axis	Zt, 200 mm
Detector axis	Zd, 300 mm
Oblique viewing	+/-70° (140°)
CNC	yes

Further Options

Modules	Y.µCT module Y.QuickScan
Rotational sample table	360° (diameter 435 mm / 17")
Additional rotate & tilt axis	360° / 60° (no CNC)
Hardware and software	High-power target, bar code scanner, power interruptor

Environmental Conditions

Radiation protection	< 1µSv/h
Ambient conditions	15° to 25° C
Relative humidity	max. 80%, non condensing

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Subject to change without notice.
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YXLON - a member of the Comet group