



Y.Cheetah - Technical Data



Image similar

General Product Features

Time to first image (typ.)	~ 10 s
Reconfiguration time (typ.)	< 60 s
μCT scan time (min.)	8 s
μCT reconstruction time (min.)	~ 90 s
Access for sample loading [mm]	Large autom. door (690 x 650)
Visual interfaces	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	10 W
Detail detectability	< 1 μm
X-Ray intensity control	TXI

X-Ray Tube Option

Tube type	Open multifocus tube (MFT)
Detail detectability (min.)	< 500 nm

Image Chain

Detector type	Panel 1313 High Speed
Number of pixel	1,004 x 1,004 pixel
Pixel size	127 μm
Field of view (max.)	102 mm x 102 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	17,000x
Frame rate (max.)	30 fps
Image chain	16 bit

Image Chain Option

Detector type	Panel 1212 High Definition
Number of pixel	2,240 x 2,344 pixel
Pixel size	50 μm
Field of view (max.)	90 mm x 94 mm
Geometric magnification (max.)	2,000x
Total magnification (max.)	10,000x
Frame rate (max.)	9 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.

Subject to change without notice.
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Image Processing

Operating system	Windows® XP
Y.FGUI Basic	Click & Center, Frame & Zoom, AIM, Grid Inspection, integrator, contrast, gamma, OSD, smoothing, profile, etc.

Image Processing Option

Y.FGUI Extended	BGA, Void Calculation, AVI rec.
ADR	Automatic Defect Recognition

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, 250 mm
Oblique viewing	+/-70° (140°)
CNC	yes

Further Options

Rotational sample table	360° (diameter 350 mm)
Additional rotate & tilt axis	360° / 60° (no CNC)
Modules	Y.μCT Module including Y.QuickScan Y.T&R Module Customized modules
Hardware and software	High-Power Target, bar code scanner, additional trays etc.

Physical Dimensions

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

Environmental Conditions

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

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