



NEWTON 7.0 VIVO

*New Edge Generation
In Vivo Imaging*

Newton 7.0 - BT500

Bioluminescence detection

Performance

Bioluminescence detection : femtogram level

Camera & Optics

DarQ-11 Scientific grade 16-bit CCD camera
Grade 0, zero defect
400-900nm / 4.8 O.D.
Up to 10 megapixels image resolution
Native resolution: 2160x2160 pixels
Up to -90°C cooling via 4 stages Peltier
Motorized f/0.70 lens
Minimum: 6x6cm
Maximum: 20x20cm

Animal Management

Biosthesis gas anesthesia module
Heated mouse Pad (+37°C)
Choice of animal breather for 1, 3 or 5 mice

Smart darkroom

Z-Axis motorized camera for precise adjustments
X/Y-Axis motorized animal stage
Stainless steel darkroom with wide-access door
Equipped with all safety standards

Analysis capabilities

3D tomography
Advanced Kuant software for absolute quantification
Unlimited number of users
Fully GLP and CFR21-compliant
Data export at 16-bit .tiff or 8-bit .jpg formats

Newton 7.0 - FT500

Bioluminescence & fluorescence detection

Performance

Bioluminescence detection : femtogram level
Fluorescence detection : picogram level

Camera & Optics

DarQ-11 Scientific grade 16-bit CCD camera
Grade 0, zero defect
400-900nm / 4.8 O.D.
Up to 10 megapixels image resolution
Native resolution: 2160x2160 pixels
Up to -90°C cooling via 4 stages Peltier
Motorized f/0.70 lens
Minimum: 6x6cm
Maximum: 20x20cm

Light sources

Epi-illumination
8 excitation channels : 440 / 480 / 540 / 580 / 640 / 680 /
740 / 780 nm (On-demand customization > 1000 nm)
11 positions motorized filter wheel
Up to 8 narrow-bandpass emission filters included :
500 / 550 / 600 / 650 / 700 / 750 / 800 / 850 nm

Smart darkroom

Biosthesis gas anesthesia module
Heated mouse Pad (+37°C) and choice of animal
breather for 1, 3 or 5 mice
Z-Axis motorized camera for precise adjustments
X/Y-Axis motorized animal stage
Stainless steel darkroom with wide-access door
Equipped with all safety standards

Analysis capabilities

3D tomography
Advanced Kuant software for absolute quantification
Unlimited number of users
Fully GLP and CFR21-compliant
Data export at 16-bit .tiff or 8-bit .jpg formats