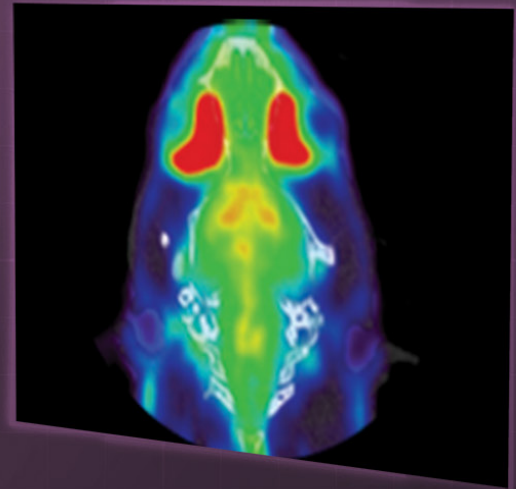
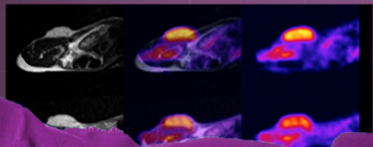
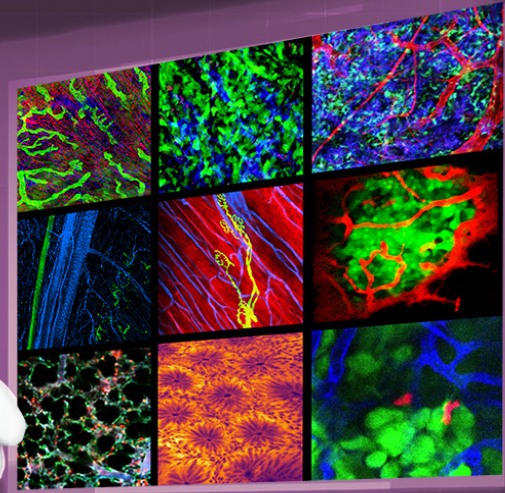
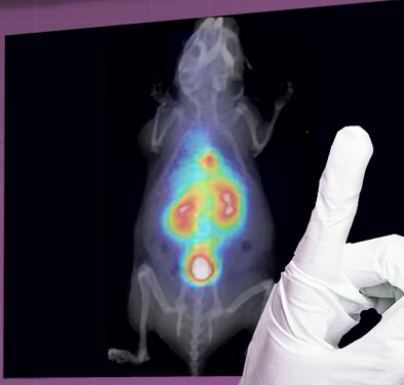
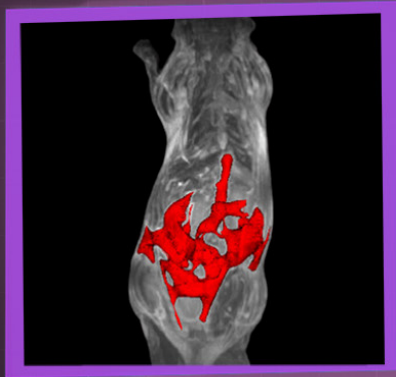


Scintica:



PRODUCT BROCHURE

Preclinical Research Technologies & Solutions

WWW.SCINTICA.COM



ABOUT US

Making your research simpler and more productive

At Scintica, we are dedicated to advancing science and medicine by supplying top-notch instrumentation to scientists and the preclinical research community. With our carefully selected portfolio of preclinical imaging and other products, we strive to connect researchers with the high value research tools necessary for the complicated process of scientific research.

Our Mission

We are dedicated to advancing science and medicine by supplying top-notch instrumentation to scientists and the preclinical research community. We strive to connect researchers with the most suitable research solutions and tools, empowering them to make meaningful contributions to their field and drive progress.

We are Scientists

Our team of scientific experts is here to help you find the right solution to advance your research.

Our Goals



We are committed to delivering cutting-edge instrumentation, tools, and research solutions to the preclinical research and translational medicine communities.



Building connections within the research community is a top priority for us. As such, one of our core values is keeping scientists informed about the latest ground breaking technologies in their field.



Providing exceptional support to our customers and assisting them in finding the best research solutions is one of our primary goals. We strive to consistently deliver outstanding customer service.

OUR PARTNERS



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HIGH-FREQUENCY ULTRASOUND

PROSPECT T1



The **Prospect T1** is an innovative high-frequency ultrasound system designed for *in vivo* preclinical imaging in small animals such as mice and rats. This compact and cost-effective tablet-based system provides high-resolution images (up to 30 μ m) and advanced capabilities to monitor changes in hemodynamics and observe anatomical structures in real-time.

There are three available probes with frequencies ranging from 10-60MHz. The system comes with all standard imaging modes including B-mode, M-Mode, Power/Color/PW/Tissue Doppler, and Contrast (linear and non-linear/harmonic) imaging mode.

Probes

20 MHz
10-30 MHz

40 MHz
20-50 MHz

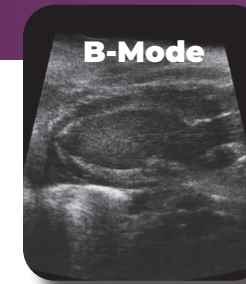
50 MHz
30-60 MHz



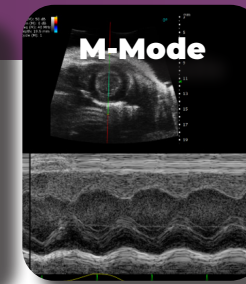
Applications

Cardiovascular Research	The system offers real-time cardiac and vascular imaging, enabling heart function and blood flow assessment from <i>in utero</i> to adulthood.
Cancer Research	The system is used in various oncology models, enables non-invasive detection and tracking of tumor growth, assessment of blood flow and molecular changes, and facilitates image-guided procedures.
Abdominal & Anatomical Imaging	The Prospect T1 offers non-invasive 2D and 3D imaging of abdominal organs, urogenital, musculoskeletal areas, and blood vessels, as well as perfusion assessments.
Developmental Biology	The Prospect T1, non-invasively enables pregnancy confirmation, embryonic development monitoring, cardiac assessment, and image-guided interventions.
Ophthalmology	The Prospect T1 is versatile for visualizing eye structures in various species, supporting 3D imaging, Doppler assessment of blood flow, microbubble perfusion evaluation, and image-guided injections.
Other Species	The Prospect T1 is versatile, and can also be used with other species such as zebra fish, chick embryos, amphibians, bats, hamsters, and more.

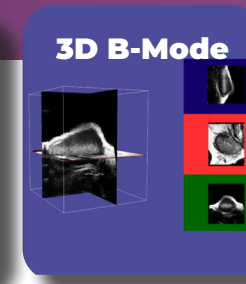
Imaging Modes



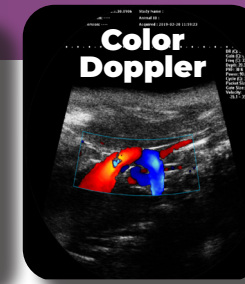
Mouse Left Ventricle in Long Axis



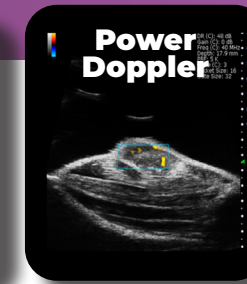
Mouse Left Ventricle in Short Axis



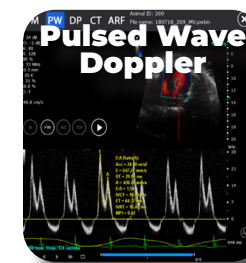
Mouse Mammary Fat Pad Tumor 3D



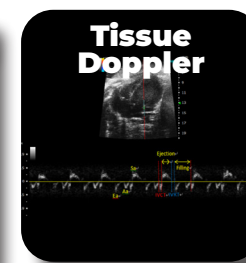
Mouse Aortic Arch



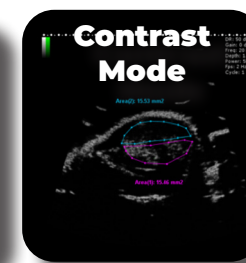
Mouse Subcutaneous Tumor



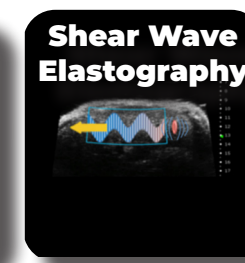
Mouse Mitral Valve Inflow



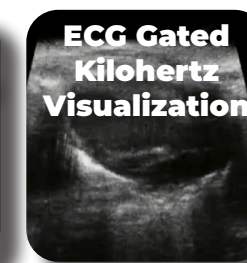
Mouse Mitral Valve Annulus



Mouse Subcutaneous Tumor



Shear Wave Through Mouse Liver



ECG Gated Kilohertz Visualization

Features & Specifications

Hardware Add-ons:	<ul style="list-style-type: none"> 3D Motor Image Guided Injection Acoustic Radiation Force Push Probe
Animal Handling Platform:	<ul style="list-style-type: none"> Mouse Platform: 17.2 x 14.2 cm (L x W) Rat Platform: 28.3 x 18.2 cm (L x W) Heated Integration for Anaesthesia nose cone Temperature Monitoring Respiratory Rate, ECG, and Heart Rate
Resolution:	<ul style="list-style-type: none"> Up to 30 μm
Field of View (FOV):	<ul style="list-style-type: none"> Depth up to 39 mm x Width 23 mm
Frame Rate:	<ul style="list-style-type: none"> Up to 400 fps (EKV Mode)
System Dimensions:	<ul style="list-style-type: none"> 360 x 280 x 65 mm
Data Format:	<ul style="list-style-type: none"> Still and movie export - jpg, bmp, tif, DICOM, avi RAW RF data, with MatLab import scrips Proprietary format for saved CineLoop data

- Compact & Small Footprint
- Tablet Design
- Touch Screen
- Intuitive Workflow

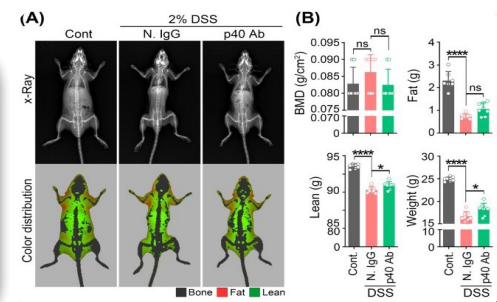
DEXA (DXA) iNSiGHT



The **iNSiGHT DEXA** system is a state-of-the-art *in vivo* Dual Energy X-Ray Absorptiometry (DXA/DEXA) system designed for preclinical research. The system offers a wide range of measurements, which include bone mineral density, bone mineral content, bone area, tissue area, percentage of fat tissue, weight, percentage of lean tissue, and total weight in grams.

This system is equipped with a fully shielded X-ray cabinet and is optimized for studying small animals such as mice, rats and other small animals up to 5kg. It provides fast and efficient body composition measurements with a scan time of 25 seconds. Combined with its low-dose radiation, it makes this ideal for longitudinal studies.

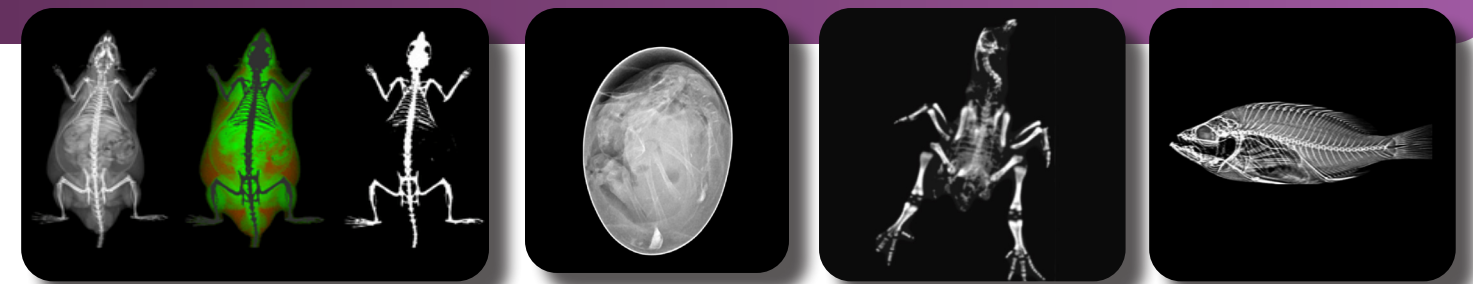
- Scan time of 20 sec
- Low Radiation
- User Friendly
- Large Scan Area (16.5 X 25.5 cm)



* Representative DEXA images captured on the iNSiGHT system in a mouse model of colitis

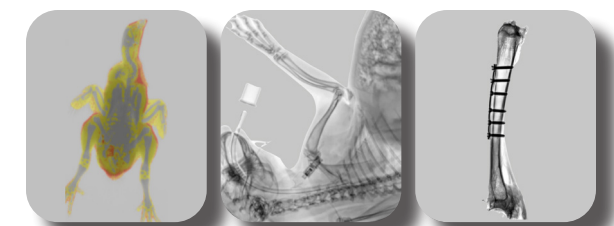
Applications

Metabolic Disorders	The iNSiGHT system can be used to track and assess disease progression and changes in body composition measurements over time, in response to treatment by measuring changes in fat and lean mass.
Drug Safety & Toxicology	The system can track and assess changes in body composition in response to the administration of a target compound at an effective dose. This can be done by looking for changes in bone mineral density and content, and/or by measuring changes in fat and lean mass over time.
Musculoskeletal Diseases	The system can assess the progression or regression of disease in response to a therapeutic regimen by measuring changes in bone mineral density and content and/or by measuring changes in fat and lean mass over time.
Metabolic Bone Disease & Arthritis	DXA imaging can help understand Arthritis & Metabolic bone diseases better by assessing the various conditions that lead to bone abnormalities, the progression and response to treatment and monitor the progression.
Hypoxia	The iNSiGHT system can assess the changes in body composition measurements in response to hypoxic exposure. The colorimetric image allows for the differentiation of visceral and subcutaneous fat.



Features & Specifications

Scan Time:	• 25 Seconds = High-throughput
Easy Data Acquisition:	• No preparation steps other anaesthesia needed
Low Dose Radiation:	• Minimal ionizing radiation (0.66 mGy) = Longitudinal studies
Scan Area:	• 16.5 x 25.5 cm • Samples to be imaged from ~0.1 g to ~5 kg
Scan Method:	• Cone beam
Pixel Size:	• 100 µm at 1.2X, 31 µm at 4X with DR mode
Adjustable field-of-view and resolution:	• Multiple levels of magnification • 100 µm – up to 31 µm in Digital Radiography Mode
Images:	• X-Ray attenuated image • Bone mineral density map • Color map
Calculation Parameters:	From whole animal or sample or by user defined regions of interest (ROI). <ul style="list-style-type: none"> • Bone Mineral Content (BMC) • Bone Mineral Density (BMD) • Bone area • Tissue area • Fat tissue (mass and percentage) • Lean tissue (mass and percentage) • Total mass
Dimensions:	• 66 x 61 x 113 cm (W x D x H)
Power:	• 110/240 VAC, 50/60 Hz, 200 VA



- Small Footprint
- Low Dose Radiation
- Fast Scan



* References:
Jung, Y. K., Lee, S., Yoo, J. I., & Baek, K. W. (2023). The protective effect of IL-12/23 neutralizing antibody in sarcopenia associated with dextran sulfate sodium-induced experimental colitis. *Journal of Cachexia, Sarcopenia and Muscle*.

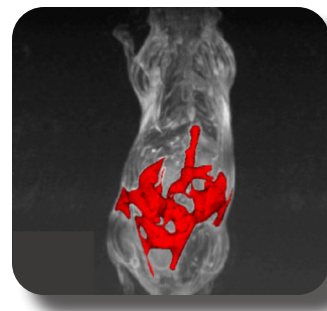
MRI

M-SERIES COMPACT MRI



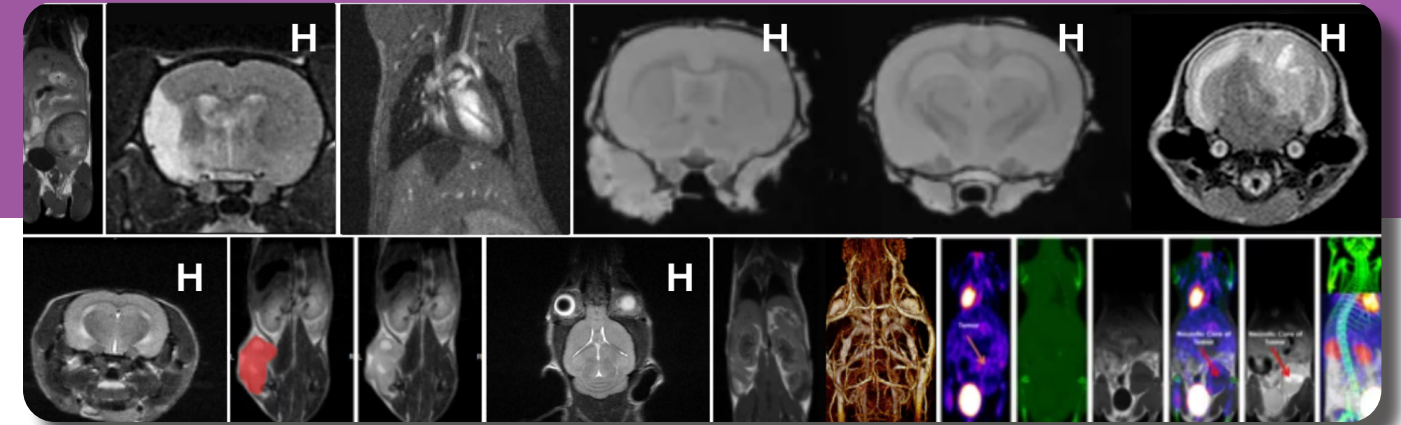
The **M-Series™** MRI systems are cryogen/cooling-free, self-shielded, high-performance MRI systems based on permanent magnet technology. The M-Series systems allow preclinical researchers, with or without in-depth knowledge of MR physics, to utilize the gold standard method in soft tissue imaging without the cost, complexity, and technical burden of superconducting MRI systems.

- Permanent Magnet
- Self-shielded
- User Friendly
- Affordable



Applications

Anatomy & Morphology	The M-Series systems are adaptable for imaging studies of anatomy, inflammation, metabolic disorders, organ pathology (e.g., liver, kidney), and tissue perfusion with contrasts.
Neurobiology	The M-Series systems are employed to research various neurological conditions like inflammation, stroke, epilepsy, neurodegeneration, tumors, anatomy, cerebral perfusion with contrast-enhanced angiography, molecular imaging using contrasts, and traumatic brain injuries (TBI).
Cancer/Oncology	The M-Series systems come with set T1- and T2- weighted imaging protocols which can be used for rapid tumor detection, tumor phenotyping (necrosis detection), longitudinal assessment of tumor volume for the quantitative assessment of tumor progression and drug response. Functional and molecular imaging approaches, with or without contrast agents, can be further used to characterize tumor microenvironment including vascular haemodynamics and hypoxia.
Cardiovascular Biology	M-Series systems enable diverse cardiac imaging, assessing parameters like volume, ejection fraction, wall characteristics, strain, torsion, and perfusion, including challenging areas like atria. It accommodates easy imaging of the entire heart and vasculature, with contrast angiography, simplifying slice prescription for consistent longitudinal studies.
Ex Vivo Imaging	<i>Ex vivo</i> MRI offers fast high-resolution imaging of formalin-fixed tissues, detecting and quantifying lesions in organs, especially the brain. It aids in guiding histopathological processing for conventional examination, ensuring accurate region of interest analysis, and enabling precise lesion detection and volume quantification.



Multi-modal Imaging

Multi-modal imaging enhances understanding of disease and compound effects. The M-Series supports PET/MRI with the SimPET insert and a custom cassette, allowing simple registration with many other modalities through third party software including Vivoquant and Imalytics (p25-26).

Contrast Agents

T1 and T2 contrast agents (Gd, Mn, iron oxide nanoparticles) enable further functional and molecular imaging applications including perfusion imaging with dynamic contrast enhanced (DCE-) MRI, Cardiac MR (infarct size, viability) and stem cells tracking. The M-series provide the optimal magnetic field for molecular imaging with significantly higher signal enhancement at 1T compared to higher field (>3T).



Specifications Front End (Magnet)	M3	M5	M7	M12
Dimensions:	1080 x 734 x 734 mm 42.5 x 29 x 29 inches	1133 X 800 x 800 mm 44.6 x 31.5 x 31.5 inches	1320 x 790 x 950 mm 52 x 31 x 37.5 inches	1810 x 1450 x 1710 mm 71.26 x 57.09 x 67.32 inches
Weight:	650 kg / 1,430 lbs	950 kg / 2,095 lbs	1,550 kg / 3,415 lbs	5,500 kg / 12,125 lbs
Magnet Opening Flange Insertion Diameter Inner Bore (H x W):	70 mm / 2.8 inches 50 x 130 mm / 2 x 5.1 inches	No insertion flange in M5 (Bore is open) 76 x 200 mm / 3 x 7.9 inches	97 mm / 3.8 inches 220 x 90 mm / 8.6 x 3.5 inches	184 x 260 mm / 7.2 x 10.2 inches
Imaging Volume:	80 x 80 x 35 mm ³ spheroid	90 x 90 x 60 mm ³ spheroid	120 x 120 x 70 mm ³ spheroid	120 x 130 x 130 mm ³ ellipsoid
B₀ (Tesla):	1T	1T	1T	1T

PET INSERT

SimPET



The **SimPET** is a compact and SiPM-based small animal PET system for hybrid (simultaneous) imaging and stand-alone use with high image quality and exceptional PET performance.

PET & PET/MR imaging with a compact design and low power consumption.

- Simultaneous or standalone operation
- Fast installation
- Low maintenance cost
- Low power consumption

Applications

Oncology

- Cell proliferation
- Apoptosis
- Angiogenesis
- Metastasis
- Gene expression

Neurology

- Biodistribution of a specific target
- Cerebral blood flow
- Cerebral metabolic rate
- Availability of specific receptors in the brain
- Dopamine transmission
- Plasma membrane transporters
- Receptor binding sites

Immunology & Infectious Diseases

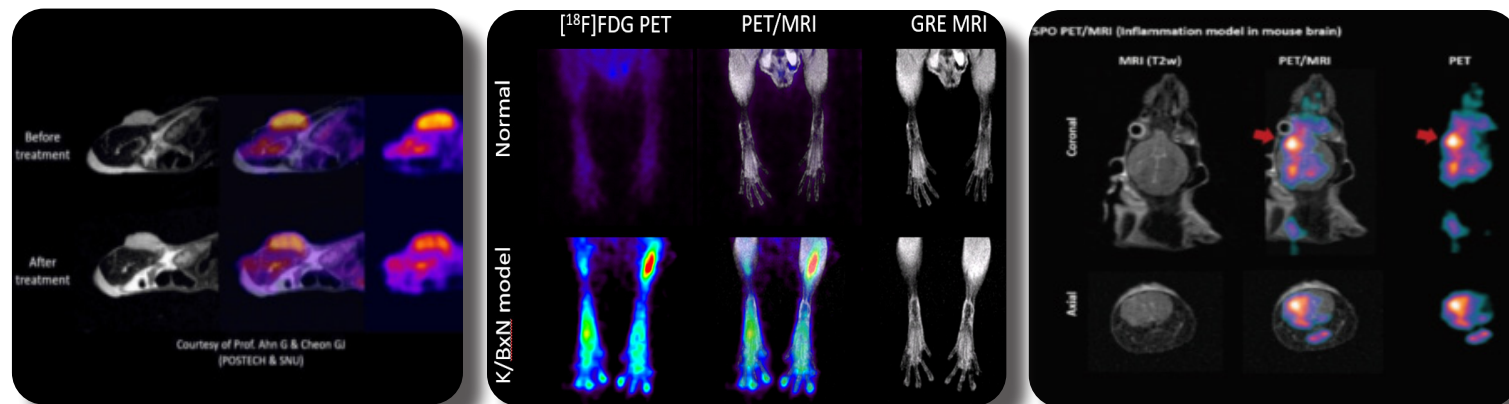
- Understanding disease progression and pathogenesis
- Diagnosis of disease, by targeting the specific pathogenic agent
- Studying therapeutic efficacy of target compounds

Cardiology

- Myocardial perfusion to examine the extent of stenosis and severity of obstruction
- Myocardial metabolism
- Myocardial viability
- Infarct assessment
- Calcium scoring in coronary artery disease
- Inflammation and plaque development for risk stratification

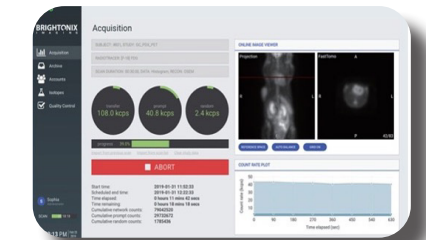
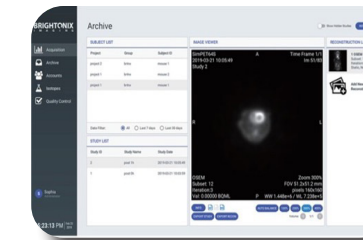
Dynamic Imaging

Bone Studies & Other Diseases

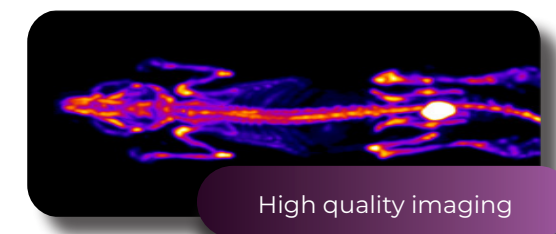
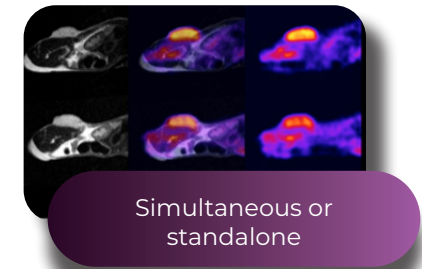
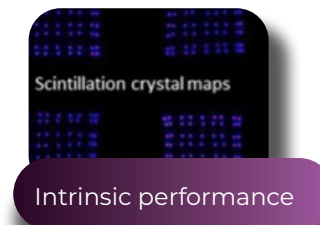


Features & Specifications

- Real-time count rate monitoring
- Real-time FastTomo reconstruction
- Flexible list-mode data acquisition
- In-line image reconstruction
- Post reconstruction with MRI-based AC Bq/ml or SUV
- Easy quality control and calibration
- PET/MR geometric calibration
- Count rate/activity cross-calibration



Parameter	SimPET-S	SimPET-X	SimPET-L	SimPET-XL
Axial FOV (cm):	5.5	11	5.5	11
Sensitivity (%):	4.7	8.1	4.0	7.4
Insert inner diameter (cm):	6.0		7.6	
Insert outer diameter (cm):	9.9		11.2	
Spatial Resolution (mm):	<1			
Energy Resolution (%):	10			
Crystal Material:	LSO			
Crystal Dimension (mm³):	1.2 x 1.2 X 10			



SPECT/PET eyes Series



The **eyes series** screening tools are engineered for high-throughput, allowing researchers to process a large number of compounds in a remarkably short time.

Applications

Cancer Research

PET and SPECT can be used in cancer research applications in many ways like confirming the presence of tumors, monitoring the growth/size of tumors, detecting metastasis, detect the expression of specific biomarkers.

Theranostics

Many PET and SPECT compounds are being made which are considered to be both therapeutic and diagnostic at the same time.

Biomarker Detection

Targeted probes can be used to image specific biomarkers, for example: inflammation angiogenesis, hypoxia, etc.

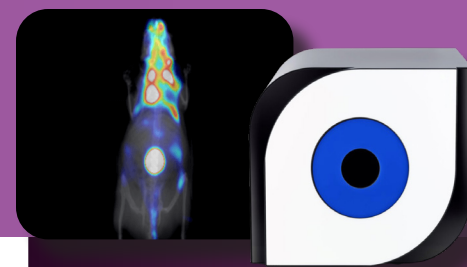
Pharmacokinetics/Dynamics/ Biodistribution

Labelled compounds can be used to detect the pharmacokinetics, pharmacodynamics, and biodistribution of the compound over time after administration to the imaging subject.



Features & Specifications

Real-time imaging: From time zero post injection	Immediate feedback to the user if the injection was successful and the radioisotope can be imaged within the imaging subject.
Active field of view: 50 mm x 100 mm	This field of view is suitable for whole-body mouse imaging, allowing for continuous and dynamic imaging in a single acquisition.
Frame rates: Down to 10 seconds	Real time, whole body, mouse imaging – these acquisition times would allow the kinetics and dynamic distribution of the imaging compound to be followed over time.
Small footprint: 44 cm x 46 cm x 40 cm Weight: Less than 40 kg	True benchtop system, due to small size, weight and footprint.
All-in-one:	Animal handling system with integrated anaesthesia delivery, heated bed, and option to monitor vital signs.
White Light Image & Artificial X-ray:	A white light image is acquired and an artificial x ray is adapted to each imaging subject.
Rapid Scanning:	The systems provide rapid screening and visualization of the data during acquisition.
Analysis Software:	The analysis software is user-friendly and the data can be quickly processed and exported after scan completion.
Complete Lab:	The systems provide a complete solution for your workflow from radio TLC, in vivo imaging, to biodistribution of ex vivo tissue samples.
Easy-to-use:	Easy-to-use system and simplified workflow.

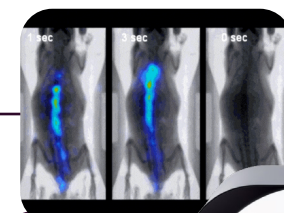


β-eye

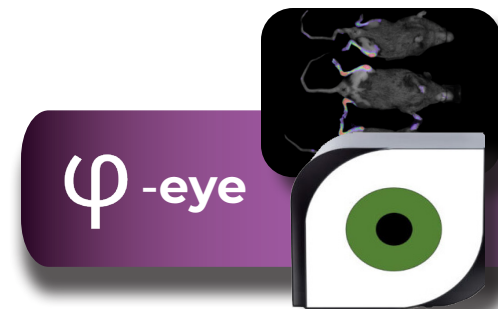
A benchtop imaging scanner for *in vivo* screening of PET radioisotopes

- Time of flight capabilities enable excellent signal to noise ratio.
- Advanced electronics are integrated within the system.
- This system has the capability for tomographic slices.
- Minimal maintenance is required.
- High precision real-time imaging without the cost of time-consuming post-processing routines.

State-of-the-art technical characteristics:



- Sensitivity that reaches 5%
- Spatial resolution near 1.2 mm
- Time of flight (TOF) capabilities
- Energy resolution of 11.8% at 511 keV
- Dynamic range from 0.1 – 10 MBq



ψ-eye

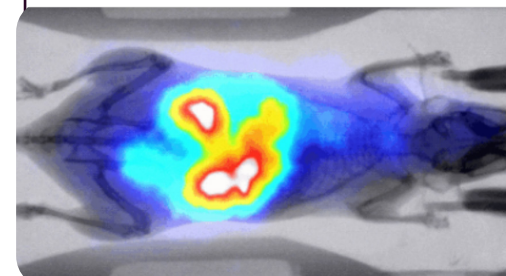
A benchtop *in vivo* optical imaging system for fluorescence and bioluminescence imaging



γ-eye

A preclinical scanner for *in vivo* whole-body mouse imaging of all SPECT isotopes radioisotopes

- Exchangeable collimators
 - General purpose collimator
 - High resolution collimator
 - High sensitivity collimator
 - High energy collimator
- The broad detectable energy range of 35 keV-500 keV allows compatibility with a wide variety of isotopes.
- The dynamic range from 0.01 to 200 MBq allows significant flexibility in the amount of tracer/energy that can be detected.
- A larger field of view version is available which accommodates 4 mice or 1 rat
- State-of-the-art technical characteristics:
 - Sensitivity of 341 cps/MBqww
 - Spatial resolution up to 1.9 mm
 - eEnergy resolution below 19%
 - Dynamic range from 30 keV – 500 keV
 - Exchangeable collimators
 - Provides high sensitivity images across the whole field of view, over a broad range of signal intensities.

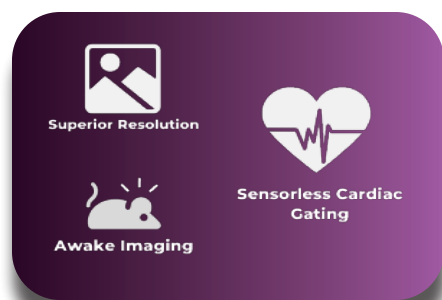


PET/CT SUPERARGUS



The **SuperArgus PET/CT** is a high-performance imaging system for preclinical research that can be configured as a combined PET/CT or PET or CT only system. It features state-of-the-art phoswich PET detectors with true depth-of-interaction (tDOI) for resolution uniformity and high sensitivity.

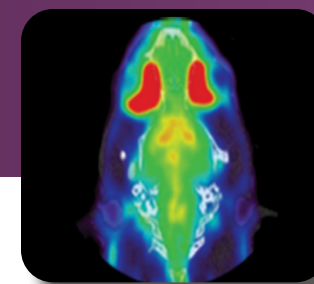
The system offers real-time imaging up to 2.5 ms frame rate and advanced capabilities like sensorless cardiac gating and conscious/awake imaging.



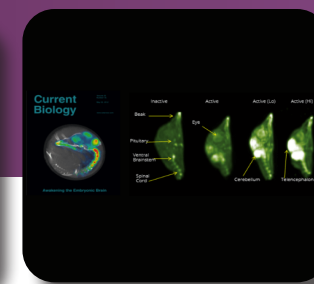
- Real-time Imaging
- Sensorless Cardiac Gating
- Multiplex Imaging (mPET)
- Conscious/Awake Imaging
- Multi-animal Imaging
- Multiplexed Imaging (mPET)

Applications

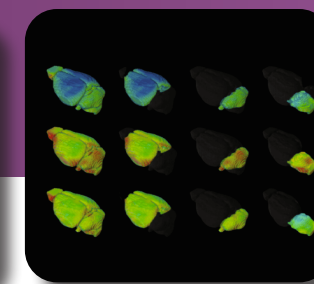
Oncology <ul style="list-style-type: none"> • Cell proliferation • Apoptosis • Angiogenesis • Metastasis • Gene expression • Receptor-ligand interaction 	Cardiology <ul style="list-style-type: none"> • Myocardial perfusion • Myocardial metabolism • Infarct • Coronary artery disease • Inflammation and plaque development
Neurology <ul style="list-style-type: none"> • Cerebral blood flow • Cerebral metabolic rate • Neurological receptors • Plasma membrane transporters • Receptor binding sites 	Dynamic Imaging 4D/3D <ul style="list-style-type: none"> • Time Activity Curves • Radiotracer accumulation • Biodistribution kinetics
Metabolic and Bone Diseases <ul style="list-style-type: none"> • Rickets • Rheumatoid arthritis • Metabolic disorders • Osteoporosis • Osteomalacia 	Drug Development <ul style="list-style-type: none"> • Target concentrations • Kinetics • Biodistribution Theranostics <ul style="list-style-type: none"> • Multiplexed PET (mPET)



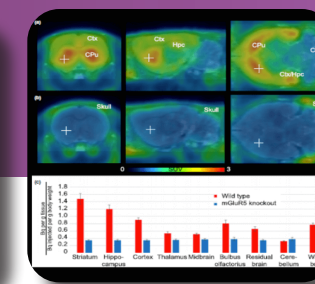
MPET



Awake Imaging



Neuro Imaging



Biodistribution

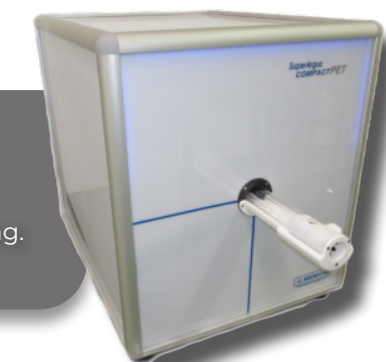
Features & Specifications

Resolution:	• Superior resolution - ≤ 1.0 mm
Detector:	• Phoswich PET Detector with tDOI (true Depth-of-Interaction)
Sensitivity:	• 11% Sensitivity at 100 to 700 keV
Animal Handling:	<ul style="list-style-type: none"> • Integrated temperature control and physiological monitoring • Cardiac and respiratory gating • Anaesthesia control • Animal transfer bed
CT:	• Low dose radiation/fast scan times

Systems can be configured as standalone PET systems or incorporated with computed tomography (CT)

Argus Compact PET or CT

- The Compact PET & CT systems are alternatives to the SuperArgus PET/CT.
- The Compact PET system incorporates the same state-of-the-art detectors and electronics as the SuperArgus system.
- The compact systems have a bore size of 55 mm making it ideal for mouse imaging.
- There is a common bed to transport the animal between imaging systems.



Model	2r	4r	6r	2R	4R	6R	2P	4P	6P
Fixed axial field of view (mm):	50	100	150	50	100	150	50	100	150
Dynamic axial field of view:	220	220	220	350	350	350	650	650	650
Transaxial field of view (mm):	80	80	80	120	120	120	210	210	210
Bore Size (mm):	90	90	90	160	160	160	260	260	260
Number of PET Rings: <small>(3 & 5 ring options available)</small>	2	4	6	2	4	6	2	4	6
Number of Detectors:	28	56	84	48	96	144	64	128	192
Number of DOI Crystals:	9464	18928	28392	16224	32448	48672	21632	43264	64896

PHOTOACOUSTIC TOMOGRAPHY

TRITOM

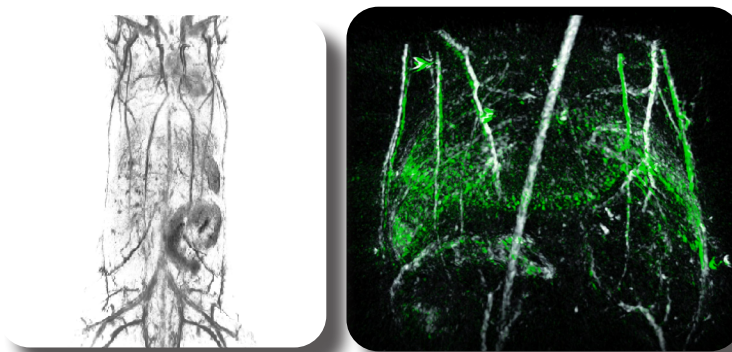


The **TriTom** imaging platform utilizes photoacoustic and fluorescence tomographies (PAFT) to enable high-resolution (up to 160 μm) non-invasive *in vivo* whole-body imaging of small animals.

With the ability to use multiple excitation wavelengths per scan, the multi-modality system can simultaneously acquire photoacoustic and fluorescence data in large volumes ($> 25 \text{ cm}^3$) allowing for spectroscopic molecular analysis within the region of interest.

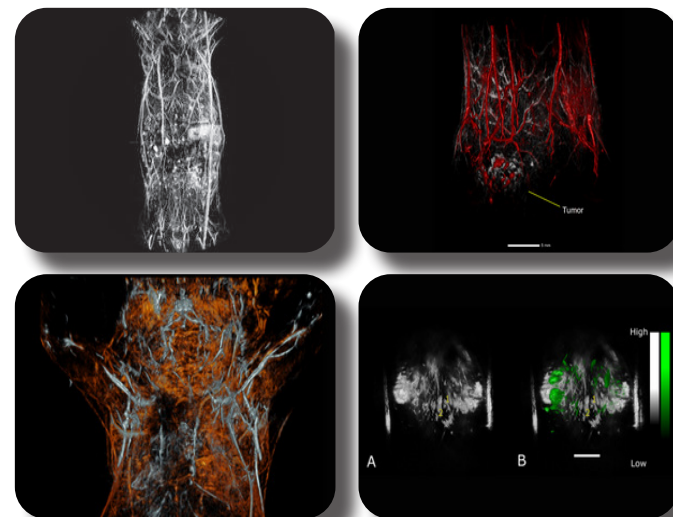
In addition to 3D molecular maps, the TriTom enables spatially-resolved assessment of physiologic parameters *in vivo*, such as volumetric blood content and oxygenation without the need for contrast agents. The TriTom provides quantitative imaging for a wide range of fluorophores and other molecular probes excited between 460 nm and 1320 nm.

Small Animal Whole Body
Photoacoustic and Fluorescence
Molecular Imaging Platform



Applications

- Anatomical Imaging/Registration
- Oncology Research
- Tissue Engineering and Regeneration
- Developmental Biology
- Neuroscience
- Development of Molecular Probes, Optical Contrast Agents, and Fluorophores



Features & Specifications

Resolution

Deep tissue quantitative imaging with a high spatial resolution (up to 160 μm).

Whole-body *In Vivo* Small Animal Imaging

Mice and rats ($< 200 \text{ g}$) can be imaged as a stack of 3D volumes for whole-body imaging.

Laser Optical Excitation

Easy-to-use nanosecond laser provides stable high-power excitation, wide wavelength tuning range (with fast wavelength switching), little to no warm-up time, and quantifiable results.

High Throughput

Fast ($< 36\text{s}$) imaging scans of large ($> 25 \text{ cm}^3$) volumes simultaneous assessment of multiple (up to 10x) microsamples of contrast agents

Animal Handling

- Integrated gas anaesthesia
- Adjustable mouse holder
- Temperature-controlled imaging chamber
- Repeatable positioning for longitudinal studies

Software

User friendly, integrated software.

System

- Size: 78 cm x 35 cm x 70 cm
- Laser unit is separate
- Light-tight imaging chamber and laser interlocks.

PhotoAcoustic (PA) Imaging Channel

Model:	Basic	Premium
Type:	3D (High-resolution deep tissue molecular, physiological, and anatomical imaging, subcutaneous & skin imaging)	
Spatial Resolution:	160 μm x 160 μm - Transverse anatomical planes 160 μm x 470 μm - Sagittal and coronal anatomical planes	
Molecular Imaging Sensitivity:	100 nM ICG in blood plasma Multi-species molecular unmixing CNR 1.7	
PA Excitation Range:	532 nm & 650 - 1320 nm	460 - 1320 nm
Laser Pulse Repetition Frequency:	20 Hz	
Peak Pulse Energy:	160 mJ @ 700 nm	130 mJ @ 700 nm
Detection Points Per Scan:	$> 69,000$ (Single scan, 360 deg azimuthal rotation)	
Detector Configuration:	Curve-linear array Scanned 360 deg	
Detector Characteristics:	96 Elements 6 MHz \pm 10% \geq 55% bandwidth @ -6 dB	
PA Signal Digitizer:	12-bit dynamic range 40 MHz sampling rate Programmable amplifier from 46-91 dB	

Fluorescence (FL) Imaging Channel

Model:	Premium
Type:	3D or Real-time 2D
Spatial Resolution:	170 μm x 125 μm (At the skin level of a live test subject)
FL Excitation Range:	460 - 800 nm
Excitation Line Width:	$< 1 \text{ nm}$ (equivalent to employing 150 extremely narrow band excitation filters)
Emission Filter Set:	<ul style="list-style-type: none"> • 8 filters covering emission range between 510 nm and 995 nm • 2 additional filter slots available
Detector Type:	Back-illuminated sCMOS
Bit Depth:	16-bit
Max Frame Rate:	40 fps

OPTICAL (BLI/FLI) NEWTON 7.0



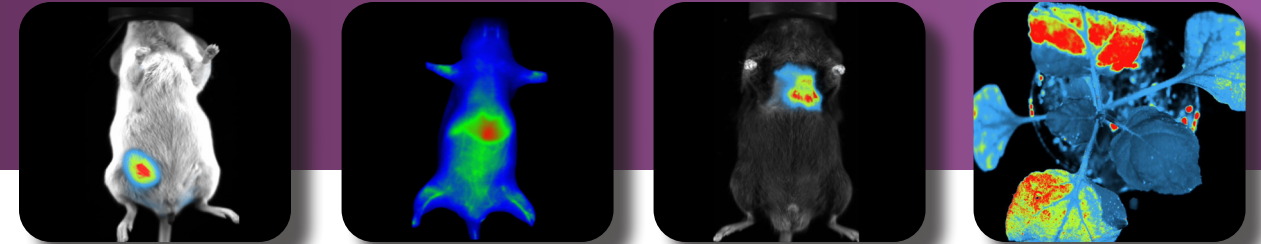
The **Newton 7.0** is a cutting-edge optical imaging system that offers the versatility to perform bioluminescence, fluorescence, and 3D tomographic imaging in a single device. The user-friendly interface and advanced features make it ideal for *in vivo*, *ex vivo*, and *in vitro* imaging applications, as well as simultaneous imaging of multiple specimens.

The system features a state-of-the-art camera that boasts one of the widest lens apertures on the market. This camera provides excellent sensitivity for a variety of luciferase enzymes and fluorophores commonly used in preclinical research, allowing for fast and efficient signal acquisition. The intuitive workflow and user-friendly software are optimized for multi-user use, saving valuable time in longitudinal studies.



Applications

Oncology	Optical imaging can be used to non-invasively monitor the progression and spread of cancer throughout the body in preclinical animal models.
Immunology	Monitoring various populations of immune cells can contribute significantly to the understanding of their physiology and the development of new therapeutic strategies.
Infectious disease	Optical imaging can be used to non-invasively visualize a site of infection as well as the efficacy of a treatment in the context of living subject.
Neurology	Optical imaging can be used to monitor the progression of various neurodegenerative diseases as well as to test novel targeted therapeutics within the brain and spinal cord.
Biodistribution studies	The ability to image the whole subject, gives optical imaging a unique advantage in preclinical biodistribution studies, one image can provide measurements for multiple organs throughout the body.



Features & Specifications

Full Spectrum Tunability:	<ul style="list-style-type: none"> 8 excitation channels 8 narrow bandpass emission filters as standard 11 position filter wheel
Fluorescent Excitation:	<ul style="list-style-type: none"> 8 excitation channels across the visible and near-infrared spectrums 2 powerful Laser Class II arrays control the illumination light
3D Optical Tomography:	<ul style="list-style-type: none"> Integrated 3D tomography module with overlay on a topographical model of the imaging subject
Motorized Darkroom:	<ul style="list-style-type: none"> Fully motorized movement of the camera (Z-axis) and animal pad (X/Y axis) with adjustable FOV
Acquisition and Analysis Software:	<ul style="list-style-type: none"> License-Free User Friendly Fully GLP and CFR21-compliant Data export at 16-bit .tiff or 8-bit .jpg format

Camera

All Models

- Scientific 16-bit CCD Sensor
- 2160x2160 (4.6 MP)
- 8.6µm x 8.6µm pixel size
- Dynamic Range 4.8 O.D
- 10 MP Image Resolution

All Models

Cooling
-90°C

Lens
f/070

BLI
Yes

Models	BT 100	FT 100	BT 500	FT 500	Bio
VIS/NIR Fluorescence:	Upgradeable	Upgradeable	400 > 900 nm	400 > 900 nm	400 > 900 nm
Emission Filters:	4 Narrow Band-pass filters included for BLI Tomography: 500/550/600/650 nm		8 Narrow Band-pass filters included: 500/550/600/650/700/750/800/850 nm		
Field Of View:	12 X 12 cm		6 x 6 cm to 20 x 20 cm		6 x 6 cm to 20 x 20 cm
Darkroom:	<ul style="list-style-type: none"> Fixed Camera Fixed Animal Stage 		<ul style="list-style-type: none"> Z-Axis Motorized Camera X/Y-Axis Motorized Animal 		<ul style="list-style-type: none"> Z-axis Motorized Camera 15° Tilting Sample Stage Adjustable pot holder
Animal Capacity:	Up to 3 mice		Up to 5 mice		Not Applicable
Heated Stage:	Yes	Yes	Yes	Yes	Not Applicable
Animal Handling:	<ul style="list-style-type: none"> Heated Mouse Bed Individually Controlled Anaesthesia Manifolds 				Not Applicable

OPTICAL (NIR-II FLUORESCENCE) NEWTON FT-900



The **NEWTON FT 900** is the first deeply cooled CCD imager dedicated to both fluorescence and bioluminescence multi-spectral imaging as it allows for *in vivo* applications in the visible, near and short-wave infrared spectrum (VIS/ NIR/ NIR-II). Smart and ultra sensitive, it provides non-ionizing and non-invasive visualization of biological processes in real-time.

This cutting-edge optical imaging system facilitates the penetration of NIR-II light deeper into small animal tissue with less autofluorescence resulting in clearer and sharper images.

Applications

- Tumor and infection monitoring
- Cell migration tracking
- Detailed vascular blood flow maps
- Vasculature and microcirculation visualization
- Biodistribution and pharmacokinetics studies
- Drug dispersion
- Heart rate and breathing



Models	NEWTON FLIR 500	NEWTON IR 500
Bioluminescence:	Ultra-high-sensitivity 2D and 3D Optical Tomography	Not applicable
NIR-II Fluorescence: High photon penetration depth <small>(10x greater than visibleFluorescence)</small>	<ul style="list-style-type: none"> • VIS camera 400-900 nm • InGaAs SWIR camera 900-1700 nm • Monochrome or color imaging mode • From 20 frames per second up to many minutes exposure 	<ul style="list-style-type: none"> • InGaAs SWIR camera 900-1700 nm • Monochrome or color imaging • From 20 frames per second up to many minutes exposure
Emission Filters:	14 High efficiency filters. Peak emission: 500, 550, 600, 650, 700, 750, 800, 850, 1100, 1200, 1300, 1400, 1500, 1600 nm	6 High efficiency filters. Peak emission: 1100, 1200, 1300, 1400, 1500, 1600 nm
Illumination Sources:	9 Excitations channels: 440, 540, 580, 640, 680, 740, 780, 880, 980 nm	5 Excitations channels: 680, 740, 780, 880, 980 nm
Lens:	Proprietary V.070 lens. f/0.70	
Field Of View:	Maximum: 20 x 20 cm / Minimum: 6 x 6 cm	
Animal Handling:	<ul style="list-style-type: none"> • Individually controlled anaesthesia manifolds • Heated animal bed for 5 mice 	
Acquisition and Analysis Software:	<ul style="list-style-type: none"> • License-Free & user friendly • Fully GLP and CFR21-compliant • Data export at 16-bit .tiff or 8-bit .jpg format 	

WESTERN BLOT & GEL DOCUMENTATION FUSION



Fusion systems are optimal for quantification grade imaging, overcoming challenges in chemiluminescent Western blot data using advanced High Sensitivity Reading camera technology. This provides a robust dynamic range, linearity, and supreme sensitivity, reducing noise for clear signals. Furthermore, they ensure consistent, reproducible data, unaffected by chemiluminescence time courses, with automatic imaging adjustments for optimal image dynamics.



- Advanced camera & optics
- Complimentary software
- Spectral unmixing
- Powerful fluorescence excitation

Features & Specifications

Operating
All Models
• PC Based

Dark Room
All Models
• Stainless steel

Software
All Models
• Evolution.Capt (free)

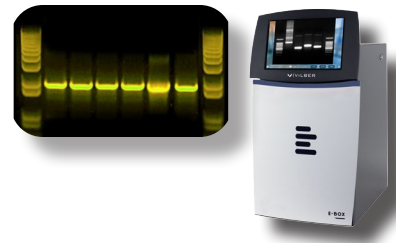
	Fusion FX7	All Models
Optics:	<ul style="list-style-type: none"> • 16-bit Scientific Grade CCD Camera • Grade 0 / 400-900 nm / 4.8 OD • Cooling: -65°C Absolute • Proprietary V.070 – Fixed Focal Length Motorized lens • Aperture: f/0.7 • Resolution: 10 Megapixels • Monochrome & Color imaging 	<ul style="list-style-type: none"> • 16-bit Scientific Grade CCD Camera • Grade 0 / 400-900 nm / 4.8 OD • Cooling: -30°C Absolute • Proprietary V.070 – Fixed Focal Length Motorized lens • Aperture: f/0.7 • Resolution: 20 Megapixels • Monochrome & Color imaging

	Fusion FX7 & FX6	Fusion Solo 6S & 6X
Spectra Capsules:	• Capsule Adapter Included	• Capsule Adapter Required

	All Models Except Fusion Solo 6X	Fusion Solo 6S & 6X
Excitation epi-illumination:	<ul style="list-style-type: none"> • 7 Customizable channels Motorized • UV, R, G, B, FR, NIR, DIR 	<ul style="list-style-type: none"> • 4 Customizable channels Non-Motorized • UV, R, G, B, FR, NIR, DIR
Trans-illumination PAD:	<ul style="list-style-type: none"> • UV-PAD, 312 nm • UV-PAD, 312 nm & 365 nm • Blue-PAD, 270 nm • White-PAD, LED 	

GEL DOCUMENTATION

E-BOX



VILBER's **Gel Documentation** systems, made of stainless steel and aluminum, provide superior image quality for DNA and RNA gels using Super-Bright UV illumination and filter technology. These systems utilize fluorescence for gene expression and protein detection, efficiently separating excitation and emitted light to yield optimal sample images. Catering to a wide range of applications, VILBER offers technologies varying from basic to advanced, excelling in sensitivity, speed, and detection of DNA, RNA, and protein.

Super-Bright UV Pad:	DNA/RNA gel and stain imaging agents: Ethidium Bromide, Sybr-Safe, Sybr-Green, Gel-Red/Green, Sybr-Gold, GFP, Pro-Q Emerald, Sypro Ruby, FITC, DAPI.
White Pad/light conversion screen for: Documentation	EPI white light applications (e.g., protein gels, X-Ray film, autorads, SSCP gels, colony/flask imaging): Coomassie Blue, Silver Stain, Autorads, Ponceau S Red, Copper Stain.
Blue Pad for: DNA/RNA detection (prevents DNA "nicking")	Three sets of electrodes make it easy to work with small mice, large rats and many small animals in between.

Features

- **State-of-the-art camera technology**
- **Free software**
- **One click to image**
- **High contrast medical grade touch screen display with magnesium reinforced protection glass**

LASER SPECKLE

RFLSI-ZW



The RFLSI-ZW **laser speckle** imaging system enhances micro-circulation research with advanced optics and algorithms, improving field size, image quality, frame rate, and resolution. Its non-contact LSCI technology provides efficient micro-circulation measurement for human and animal tissues, useful in studies like ischemic stroke and lower limbs. It offers multi-output including high-resolution images, videos, and quantified perfusion and vessel diameter data.

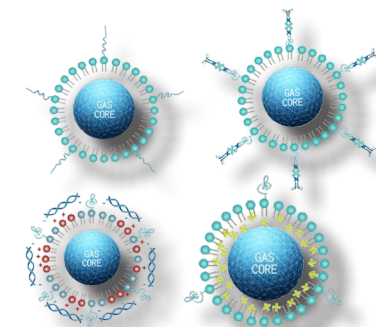
Applications

- **Reliable Data Measurement**
- **Quantified Visualized Data**
- **Easy Operation**
- **Full-Frame HD Images & Video**
- **High-Speed Camera**
- **Fast Data Acquisition**

<ul style="list-style-type: none"> • Auricle damage repair through vascular regeneration in nude mice • Blood flow response in rat and mouse cerebral cortex somatosensory region • External stimuli-induced light and electrical responses in mouse cortex blood flow 	<ul style="list-style-type: none"> • Research on cerebral ischemia, reperfusion response, and brain injury in rats and mice • Imaging of cerebral blood flow related to cortex physiology and pathology • Various physiological and pathological circulation and metabolism 	<ul style="list-style-type: none"> • <i>In vivo</i> imaging of cerebral cortex blood channels in pathological animal models like MCAO • Research on intestinal mucosal vessels and cortical diffusion inhibition • Research on lower limb ischemia and vascular survival in rodents
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MICROBUBBLE CONTRAST AGENTS

USPHERE SERIES



The **USphere Series** of microbubble contrast agents are designed for preclinical imaging, catering to various species like mice, rats, rabbits, and non-human primates, effectively working at frequencies from 1 to 40 MHz. With a small size distribution (1.1-1.4 μm) and high concentration (~2.5×10¹⁰ bubbles/ml), they are suitable for diverse applications, including perfusion imaging, targeted biomarkers, multi-modal imaging with fluorescent dyes, targeted drug delivery, and gene transfection.

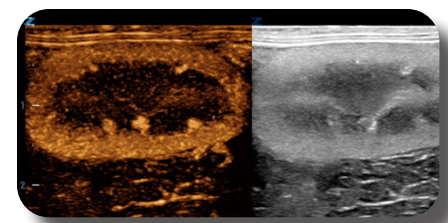
These agents are optimized for small animal imaging, ensuring precise control over particle size and providing detailed perfusion information for tumor and organ imaging, drug development studies, and more.

Applications

<p>Perfusion Imaging</p> <p>USphere Prime</p>	<p>Targeted Molecular Imaging</p> <p>USphere Labeler</p>	<p>Multi-modal Imaging</p> <p>USphere Tracer</p>	<p>Drug Delivery & Gene Transfection</p> <p>USphere Trans⁺</p>
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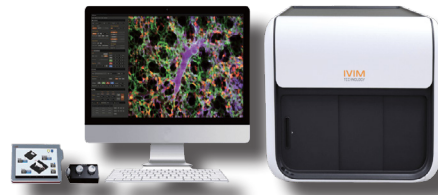
Features & Benefits

High concentration of microbubbles per ml of activated contrast agent (~2.5×10 ¹⁰ bubbles/ml)	Recommended microbubble injection volume (1-20 μL) for small animals like mice or rats balances contrast enhancement and circulatory system safety. Dilution with sterile saline enables precise delivery in small amounts.
Small size distribution (1.1-1.4 μm) of activated microbubbles	Microbubble's small size ensures accurate microvasculature perfusion characteristics.
Once activated, the microbubble concentration is stable for 72 hours , when stored at 2-8°C	Microbubble stability for 3 days enables efficient utilization without wastage during required studies.
Microbubbles work at a wide range of frequencies (1-40 MHz)	Microbubbles are versatile and suitable for various species, including mice, rats, rabbits, non-human primates, and pigs, and have been successfully used on different ultrasound systems, supporting both linear and non-linear/harmonic contrast imaging modes.



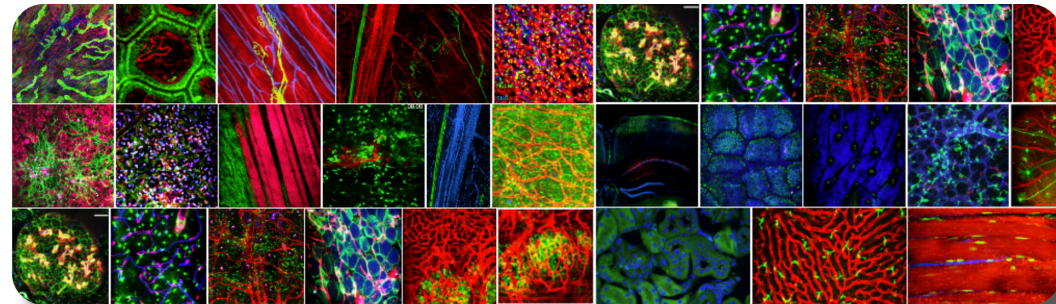
INTRAVITAL MICROSCOPY

IVM



Intravital Microscopy (IVM) is an all-in-one two-photon and/or confocal microscopy system designed and optimized for longitudinal imaging of live animal models.

Confocal IVM systems enable optical sectioning of *in vivo* tissue via rejection of out-of-focus fluorescence light coming from the background tissue which will result in images with high contrast and quality.



Animal well-being Motion Compensation

User Friendly 4D Imaging

Features & Benefits

Integrated Heated Animal Stage with Physiological Controller & Inhalation Anaesthesia Inlet/Outlet: Ensures animal well-being throughout the imaging session and consistency between animals within a study, while enabling connection to an external inhalation anaesthesia machine. It is compatible with all universal anaesthesia machines.

User-Friendly Ergonomics & User Interface: Allows for ease of use, and reproducible results by experts and non-experts.

Fast to Ultrafast Scanning: Track the movement of several cells *in vivo* to better understand the biological processes being examined.

Motion Compensation Function: Provides enhanced image quality on imaging dynamic organs, automatically compensating for the effects of respiratory motions and brain pulse.

Animal Stabilizing Holders & Hardware: Quick, secure stabilization of the animal on the stage for time-lapse and longitudinal imaging, minimizing motion artifacts.

4-color Simultaneous Imaging: Multiplexity and simultaneous monitoring of various labelled elements within the tissue.

4D Imaging: The software allows for acquisition of 3D stacks of moving objects over time and rendering it as a 4D image.

Models IVM-C3 | IVM-M3 | IVM-CM3 | IVM-MS3 | IVM-CMS3

Model	IVM-C3	IVM-M3	IVM-CM3	IVM-MS3	IVM-CMS3
Laser Type:	Confocal Laser Unit	Tunable Two-Photon Laser Unit	Confocal Laser Unit Tunable Two-Photon Laser Unit	Compact Two-Photon Laser Unit	Confocal Laser Unit Compact Two-Photon Laser Unit
Wavelength:	405 nm (20 mW), 488 nm (20 mW), 561 nm (20 mW), 640 nm (20 mW)	690 – 1,050 nm	For Confocal 405 nm (20 mW), 488 nm (20 mW), 561 nm (20 mW), 640 nm (20 mW) For Two-Photon 690-1,050 nm	Fixed 920 nm	For Confocal 405 nm (20 mW), 488 nm (20 mW), 561 nm (20 mW), 640 nm (20 mW) For Two-Photon Fixed 920 nm

Model	IVM-C3	IVM-M3	IVM-CM3	IVM-MS3	IVM-CMS3
Fluorescence Detector:	Confocal Detector Wavelength: 185 – 900 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 Ultra-broadband high SNR PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current) 25-2000 µm variable pinhole	Two-Photon Detector Wavelength: 185 – 760 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 High quantum efficiency PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current) 4 Ultra-broadband high SNR PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current) 25-2000 µm variable pinhole	Confocal Detector Wavelength: 185 – 900 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 Ultra-broadband high SNR PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current) 25-2000 µm variable pinhole Two-Photon Detector Wavelength: 185 – 760 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 High quantum efficiency PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current)	Two-Photon Detector Wavelength: 185 – 760 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 High quantum efficiency PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current)	Confocal Detector Wavelength: 185 – 900 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 Ultra-broadband high SNR PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current) 25-2000 µm variable pinhole Two-Photon Detector Wavelength: 185 – 760 nm (DAPI, CFP, GFP, YFP, RFP, Cy5, Cy5.5, etc.) 4 High quantum efficiency PMTs (UV to Near IR, Ultra High Sensitivity, Low Dark Current)

Variable Emission Filter: (Optional)
6 or 2 emission filters can be mounted on each of four detectors

Model	IVM-C3	IVM-M3	IVM-CM3	IVM-MS3	IVM-CMS3
ScanHead - All Models	<p>Scanner:</p> <ul style="list-style-type: none"> • Polygonal mirror (Fast axis scanning, Max. 66 kHz) • Galvano scanner (Slow axis scanning, Max. 200 ms/step) 				
Imaging Head - All Models	<p>Objectives:</p> <ul style="list-style-type: none"> • Max. 5 objectives are mountable on S/W controlled motorized turret (1X – 100X) • Compatible for commercial objectives 				

Model	IVM-C3	IVM-M3	IVM-CM3	IVM-MS3	IVM-CMS3
Image - All Models	<p>FOV:</p> <ul style="list-style-type: none"> • 100 x 100 µm² – 10 x 10 mm² <p>Pixel Resolution:</p> <ul style="list-style-type: none"> • Max. 2,048 x 2,048 pixels <p>Imaging Speed:</p> <ul style="list-style-type: none"> • Standard: 30 fps @ 512 x 512 pixels • (Optional) High Speed: 60 fps @ 512 x 512 pixels • (Optional) Ultra High Speed: 100 fps @ 512 x 512 pixels 				
In Vivo Animal Stage - All Models	<p>3D Stage:</p> <ul style="list-style-type: none"> • Travel Range: 50,000 x 50,000 x 75,000 µm (XYZ) • Micromanipulation (Max. 0.2 µm resolution) • 3-Axis independent control with Jog Dial & S/W 				

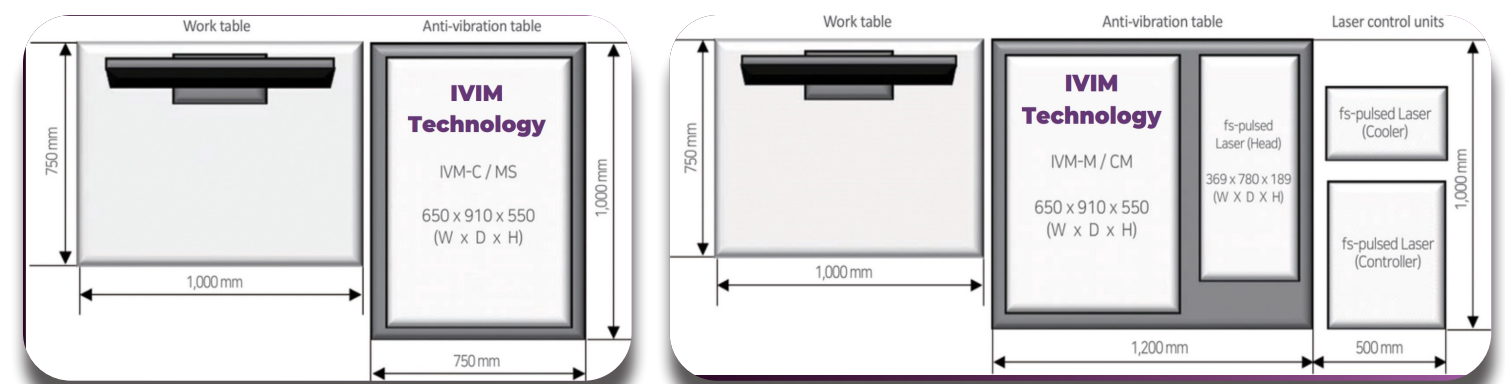
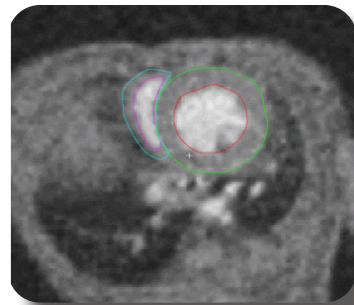


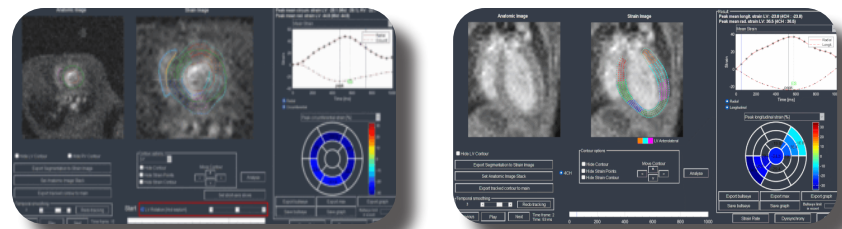
IMAGE ANALYSIS SOFTWARE

SEGMENT



Segment application is a comprehensive software solution for quantitative cardiac MR image analysis. The software has been specifically designed for use in preclinical research and will work with images acquired on our M-Series MRI systems. The Segment software employs advanced artificial intelligence (AI) algorithms to facilitate faster analysis of both left ventricle (LV) and right ventricle (RV) functions. In addition to systolic functional analysis, Segment has optional modules for delayed contrast-enhanced imaging with automatic scar segmentation, strain analysis, and many other tools.

- Cardiac Function Analysis Software



VIVOQUANT



VivoQuant is a vendor-neutral visualization, processing, co-registration, and quantification software suite developed by scientists for their peers. This versatile platform supports multi-modal and multi-species imaging, providing powerful tools for fine-tuning images, isolating and analyzing regions of interest, and more. With support for multiple image formats, including DICOM and 30+ native data formats, VivoQuant streamlines image analysis research studies across various imaging modalities, making it ideal for basic and translational research, including drug discovery.

Fully DICOM compatible; along with 30+ other vendor specific formats:

Users may import image data from any number of preclinical imaging systems, support for both static and dynamic data sets.

Multi-modality support:

VivoQuant supports and overlays data from most imaging modalities including MRI, PET, SPECT, CT, and optical imaging.

Integrated image analysis tools:

Improve analyses using the multi-atlas segmentation (MAS) tool, K-Means Segmentation Algorithm, and Cortical Thickness Tool.

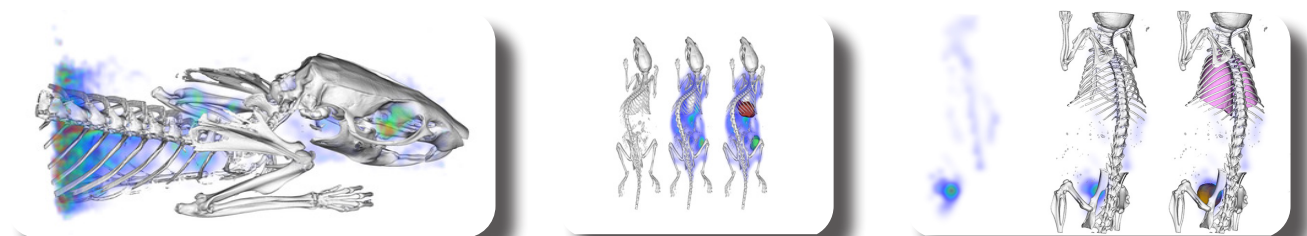
Three-dimensional rendering function:

Apply balancing, shading, orientation, color, and lighting parameters to enhance 3D image renderings for presentations and publications. (3D ROI).

- 3D Brain Atlas Tool
- Multi-Atlas
- Segmentation Tool
- Pharmacokinetic Modeling Tool
- Integration with iPACS

IMAGE ANALYSIS SOFTWARE

IMALYTICS PRECLINICAL



Imalytics Preclinical is a user-friendly software for fast interactive biomedical image data analysis, supporting 3D, 4D, and 5D data from various modalities. Advantages include optimized GPU processing for real-time 3D segmentations, an easy-to-learn interface with tutorials, and worldwide cloud-based accessibility for collaboration and remote work. It has been used to analyze (multi-modal) data sets from CT, PET, SPECT, MRI, US, FLT, and BLT.

Features

Pharmacokinetic modelling:	<ul style="list-style-type: none"> • Region-based fitting • Voxel-based fitting (parametric maps) • Patlak model • AIF generation, saving & loading • One-Tissue compartment models • Two-Tissue compartment models
Relaxometry:	<ul style="list-style-type: none"> • Region-based fitting • Voxel-based fitting (parametric maps) • T1-model • T2-model
3D Printing:	<ul style="list-style-type: none"> • STL-export of image iso surface • STL-export of classes • Support generation
Bone analysis:	<ul style="list-style-type: none"> • Trabecular thickness & separation • Bone statistics (Bone volume, bone volume fraction, bone surface, ...) • BMD calibration and measurement • Local thickness and separation map
Vascular analysis:	<ul style="list-style-type: none"> • Vessel tortuosity • Vessel diameter measurements along vessel • Vessel diameter feature maps (distance maps) • Vesselness feature map generation
Samples:	<ul style="list-style-type: none"> • Phantoms • Cells • Tissues • Organs • Bones • Tumors • Whole-body scans for insects, fish, birds, mice, rats, sheep, and other mammals



- Signal Quantification
- High-throughput imaging 4 mice (or more)
- Kinetic Modeling
- Cardiac Imaging
- Integration with iPACS

RESEARCH/THERAPEUTIC ULTRASOUND

PRODIGY



The **Prodigy** is a compact, high-performance ultrasound system optimized for a variety of ultrasound engineering research applications. The Prodigy is available with either 128 or 256 transmit/receive channels, both with support for multiplexing (contact us for details). In addition, standard (up to 170 Vpp, 0.2 W/ch) and high-power (up to 140 Vpp, 1 W/ch) configurations are available.

High Power Transmit Modules



ARF01-200
Single channel
1-50 MHz transmit
Up to 200 mJ PW mode



ARF02-180
Single channel
Up to 15 MHz transmit
Up to 162 W CW mode

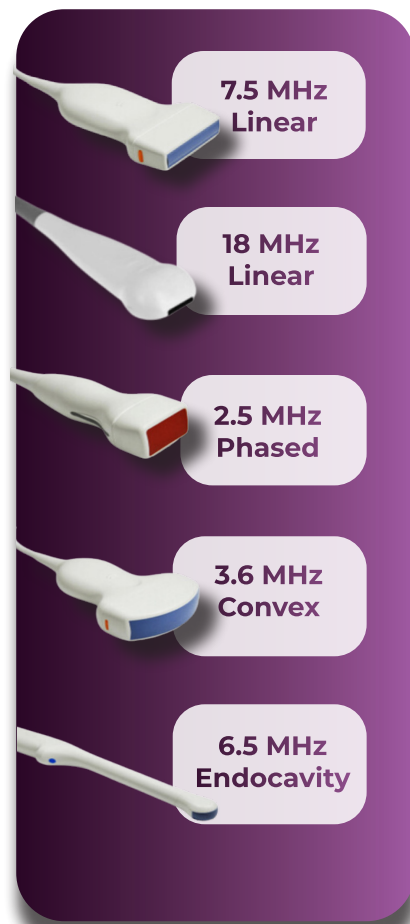


HIFU256
256 transmit channels
Up to 30 MHz transmit
Up to 11.5 W CW mode

Features & Specifications

Transmitter:	<ul style="list-style-type: none"> Frequencies: 1 KHz to 30 MHz *Frequencies under 1 KHz can be discussed upon request True arbitrary transmit waveform with 4096 steps Time delay accuracy: up to 2.8 ns
Receiver:	<ul style="list-style-type: none"> Programmable gain range: -3~38 dB ADC sample: 16 bit, up to 125 MSPS
Embedded PC System:	<ul style="list-style-type: none"> High-performance CPU RAM: 32 GB or higher GPU: nVidia RTX 2060 or faster PCIe Gen3, up to 10 Gbytes/sec
Probe Connectors:	<ul style="list-style-type: none"> One 256-ch ITT Cannon DLM6-360R Two 128-ch ITT Cannon DLM1-156R 128-ch configuration uses half of the DLM6 and the second DLM1. *Adapter boards are available upon request
External Interfaces:	<ul style="list-style-type: none"> Trigger in/out, clock output
Basic Imaging Modes:	<ul style="list-style-type: none"> B-Mode, M-Mode, Color Doppler, PW Doppler, Multi-Focus, Multi-Beam, Duplex and Triplex
System Dimensions:	<ul style="list-style-type: none"> 342 x 382 x 398 mm Up to 39 kg

Probes



Applications

- Advanced Imaging Modes**
- Pulse Sequence Mode
 - Trapezoidal or Steerable Scanning
 - Spatial Compounding
 - Harmonic Imaging

Shear Wave Elastography

Shear wave imaging, including supersonic shear imaging and ultrafast plane wave imaging, can be implemented with programmable push beams and imaging sequences.

High Intensity Focused Ultrasound

High-intensity focused ultrasound (HIFU) can be performed using the Prodigy system when combined with any of the high-power transmit modules.

Pulse Sequence Programming

Ultrasound pulse sequence programming provides flexibility in designing a variety of imaging modes where the parameters can be fully programmed. This feature is available with both an intuitive graphical user interface as well as through MATLAB, C#, and Python.

Real-time Channel Data Acquisition

RF data can be acquired in all imaging modes. When using the pulse sequence mode, raw data can also be accessed using the built-in viewer or analyzed in MATLAB, C#, or Python in real-time.

Compounding

Prodigy allows spatial compounding up to nine prespecified steering angles.

Complex Adaptive Imaging

Complex adaptive beamforming algorithms (e.g., MVDR based and/or coherence based) can be implemented in real time on Prodigy using the embedded GPU. Both pre/post-beamforming algorithms can be implemented.

Harmonic Imaging

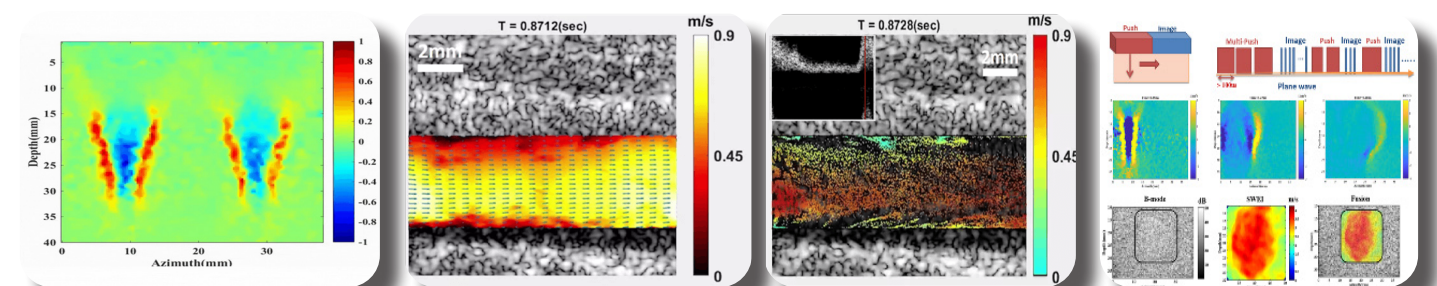
Harmonic imaging improves the image quality in terms of spatial and contrast resolutions. Both filter based and pulse-inversion (PI) based harmonic imaging can be implemented.

Coded Excitation

Coded excitation improves SNR and depth penetration. Codes can be arbitrarily designed using the arbitrary transmit waveform generator. The resulting sequence can also be arranged with different codes, enabling a variety of applications using coded excitation.

Synthetic Aperture/ Total Focusing Method

Prodigy allows a variety of synthetic techniques, such as synthetic transmit and receive aperture, sparse synthetic aperture, and random synthetic receive aperture, to be performed.



Shear Wave Elastography

Conventional Arrow VFI

Particle Trajectory VFI

Shear Wave Elastography

BIOPRINTER

NGB-R



The **NGB-R** is a multi-modal, 4D bioprinting platform designed and developed to print live tissues and organs.

Combining laser-assisted, micro-valve and extrusion bioprinting, the NGB-R enables true versatility of bioprinting (from cells to spheroids) and offers the possibility of using a large number of biomaterials and hydrogels.

The NGB-R includes an embedded microscope for in-line cell printing monitoring and relies on a complete software suite for managing bioprinting protocols, from biological CAD to data analysis of manufacturing.



The Next Generation Bioprinting NGB-R platform from Poietis has been developed to overcome current tissue manufacturing shortfalls and solve critical limitations of existing 3D bioprinting technologies, thanks to single-cell resolution and learning-based methods. This platform integrates automation and robotics, and numerous online sensors – including cell microscopy – and Artificial Intelligence processing.



Multi-modality



Robotic Assisted



Integrated Microscope

Applications

Regenerative Medicine Advanced Therapies

Regenerative medicine is a rapidly growing field that involves replacing or regenerating damaged or diseased cells, tissues or organs to restore normal function.

Drug Discovery & Therapeutic Testing

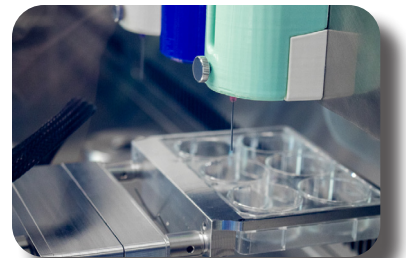
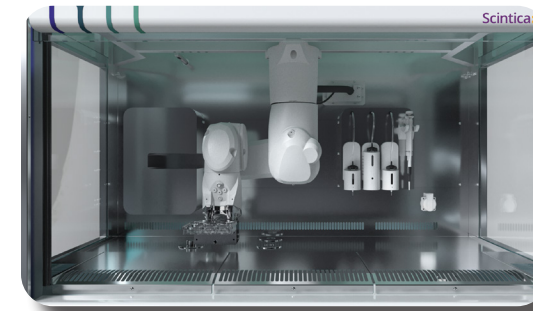
3D Bioprinted human tissues can bridge the gap in testing of therapeutics from preclinical animal models to in-human trials. In addition, the use of bioprinted tissue models allow for high-throughput screening of drugs.

Disease Modelling

3D Bioprinting can be used to fabricate *in vitro* 3D disease models, mimicking the structural and spatial features of the disease environment. This can be used to study the disease mechanism and test therapeutics.

Aesthetic Medicine & Cosmetic Testing

3D Bioprinted tissues can replace animal models for testing of cosmetic products. 3D bioprinted tissue fabricated out of human cells are more ethical for validation of aesthetic products.



Features & Specifications

Multi-Modality, Laser-Assisted, Bio-extrusion, and Micro-valve Bioprinting Techniques:

The NGB-R incorporates 3 different bioprinting techniques all in one system:

- Laser-assisted-bioprinting (LAB)
- Bio-extrusion
- Micro-valve module

High Cellular Viability: (>95%)

NGB-R's laser-assisted bioprinting technology is nozzle-free technique with no damage causing forces occurring in the process. As a result, cell viability reaches >95% and printed tissues become truly functional.

High-resolution, High-printing Speed:

NGB-R is the first commercially available system to boast laser-assisted bioprinting, allowing users to deposit micro droplets (ranging in size from 50 μm to 300 μm) of cell bioink with a precision of a few microns.

High-precision (10 μm):

The initial positioning of cells has a huge impact on the evolution of future tissues. While ordinary extrusion-based bioprinting techniques do not allow for precise positioning of printed cells within the hydrogel, NGB-R allows precise positioning of cells at pre-designed pattern.

Integrated Microscopy & Image Analysis platform:

The NGB-R can come with an optional built-in microscope to acquire images of each individual tissue layer at each step of fabrication.

Microfluidic Multi-cell Loading Module:

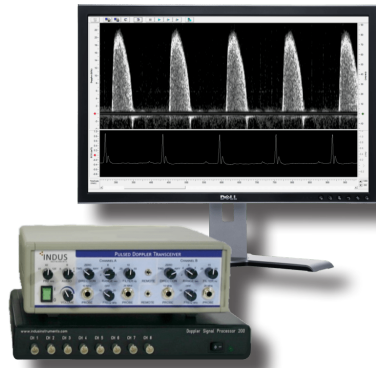
This feature is designed to enable fabrication of larger and more complex tissues in compliance with the Good Manufacturing Practices (GMP). This optional module includes a microfluidic cartridge and an automatized pipette or homogenization.

Robotic-assisted:

NGB-R is designed to address automation and reproducibility issues in tissue manufacturing; 6-axis robotic arm integrated within NGB-R allows semi- to fully automated fabrication.

DOPPLER FLOW VELOCITY

DFVS

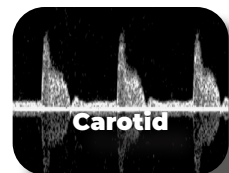


The **Doppler Flow Velocity System (DFVS)** is a high-frequency, real-time pulsed Doppler device with integrated data analysis software for studying cardiovascular function in small animals. It offers excellent temporal resolution, making it ideal for studying fast heart rates and rapid blood accelerations.

This system has been successfully used with mice, rats, bats, naked mole rats, and other small animals, and can also measure blood flow velocities in larger animals using implanted extra-vascular Doppler cuff probes.

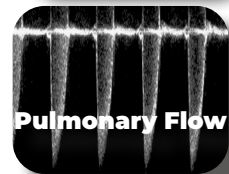


Applications



Carotid

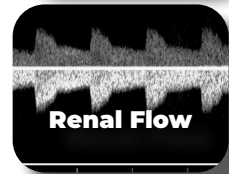
Cardiac Function: Systolic and Diastolic Area: Myocardial Infarction, Heart Failure, Hypertrophy, Cardiomyopathy
Flow Parameter: Aortic Outflow Velocity, Mitral Inflow Velocity



Pulmonary Flow

Coronary Flow Reserve Area: Myocardial Ischemia, Pressure Overload-Hypertrophy, Atherosclerosis
Flow Parameter: Hyperemic/Baseline Coronary, Flow Velocity Ratio

Arterial Stiffness (Pulse Wave Velocity) Area: Hypertension, Atherosclerosis
Flow Parameter: Aortic Arch Velocity, Abdominal Aortic Velocity



Renal Flow

Pressure-Overload (Stenosis) Area: TAC Banding Model
Flow Parameter: Carotid (R/L) peak velocity ratio, Stenotic jet velocity-estimation of pressure gradient across stenosis

Peripheral Artery Disease and Perfusion Area: Renal, Carotid, Iliac, Femoral and Saphenous Vein Flow Velocities
Flow Parameter: Flow Velocities in peripheral vessels before & after a surgical intervention or during therapeutic response

Parameters

Surgical Monitoring & Vital Sign Measurements:

- Heart Rate
- R-R Interval

Peripheral Artery: Carotid, Renal, Femoral & Tail:

- Peak Velocity
- Mean & Minimum flow velocity
- Pulsatility Index
- Resistivity Index

Other: Coronary, Transverse & Abdominal Aorta:

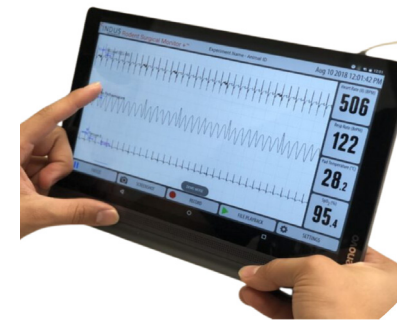
- Peak Diastolic Velocity (Coronary)
- Peak Systolic Velocity (Coronary)
- Diastolic & Systolic Area (Coronary)
- Ratios PSV/PDV & SA/DA
- Pulse Wave Velocity

Diastolic: Mitral Inflow Velocity:

- E-peak & E-stroke velocity
- E-time duration
- E-acceleration & E-deceleration time
- E-peak to 1/2 E-peak time
- E-linear deceleration time & rate
- A-stroke distance
- A-time duration
- E-A peak velocity ratio
- Isovolumic contraction time
- Isovolumic relaxation time

RODENT SURGICAL MONITOR

RSM+



The **Rodent Surgical Monitor (RSM+)** is an advanced, integrated surgical warming and vital signs monitoring solution for preclinical research in mice, rats and other small animals. The system provides detailed information, in real time, regarding subject body temperature, ECG, heart rate, pressure and respiration. The system incorporates intelligent zone heating, ultra-low noise, high-resolution ECG electronics, noninvasive electrodes, and a port for external needle electrodes for when subjects cannot be laid prone or supine.

Standard setup consists of three components:

- Touchscreen Display Unit
- Heated Surgical Platform
- Temperature Probes

Optional components:

- Pulse Oximetry Thigh Clip
- Pressure Adapter Cable and Pressure Catheter
- External Needle Electrodes

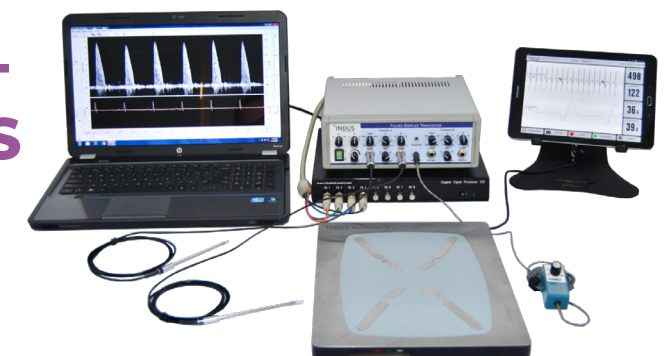
Measure Simultaneously



Features & Specifications

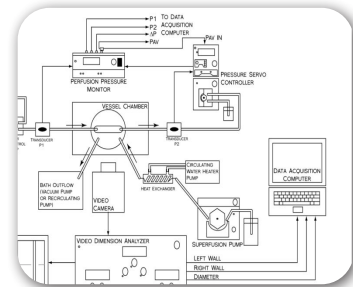
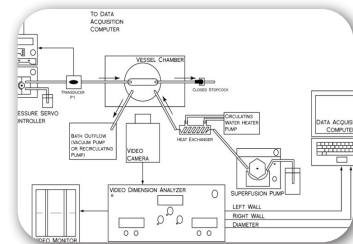
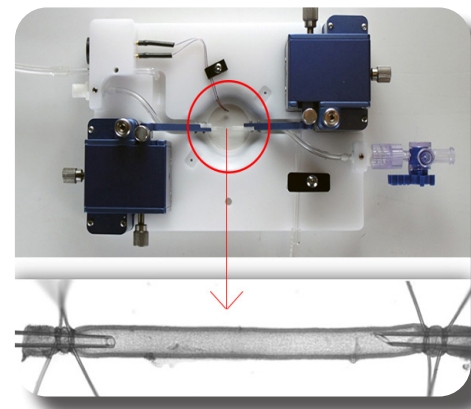
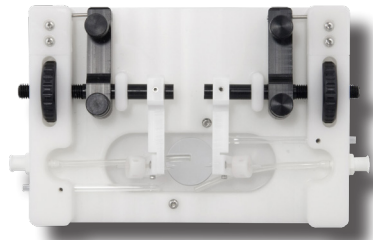
Real-Time Monitoring:	• Clearly labelled numeric panels and measurement waveforms make it easy to monitor critical parameters.
Easy Documentation:	• Define optimal study conditions and ensure consistency between subjects and collaborating labs.
Versatile:	• Three sets of electrodes make it easy to work with small mice, large rats and many small animals in between.
Standalone Data Collection:	• Capture data, make comments and view recordings on the tablet to quickly take measurements and verify experiment details.
Flexible:	• Expansion modules allow you to easily add functionality later as your lab and study's needs change.
Dynamic:	• Responsive electronic heating can respond to changing lab conditions within seconds, not minutes.

PAIR THE RSM+ WITH THE DFVS



MICROVASCULAR RESEARCH

Pressure Arteriography **Pressure Arteriography** is the gold-standard for studying blood vessel function, reactivity, and mechanics. Living Systems Instrumentation is a leading provider of complete systems, ensuring quick setup and reliable results. Most applications use constant pressure, no intraluminal flow setup with an occluded distal end. For intravascular flow, a pump and pressure monitoring are needed.



Vessel Chambers

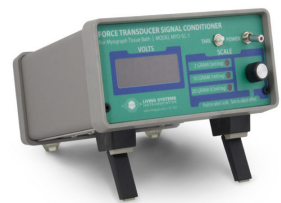
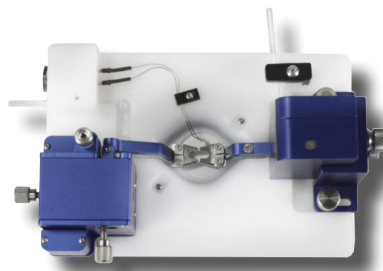
- **Single** Vessel Chamber
- **Dual** Vessel Chamber
- **Linear Alignment** Vessel Chamber
- **Self Heated Single** Vessel Chamber
- **Self Heated Dual** Vessel Chamber
- **Linear Alignment** Vessel Chamber

Special Vessel Chambers

- **Linear Alignment Large** Vessel Chamber
- **Axially Rotating Single** Vessel Chamber
- **Quick Transfer Single** Vessel Chamber
- **Perfusion Chamber with Metal Block** for Magnetic Accessories
- **Sealed Single** Vessel Chamber
- **Sealed Vessel Self Heated** Chamber

Wire Myography

Wire Myography is an *in vitro* technique to study small resistance arteries' functional responses and vascular reactivity. Living Systems Instrumentation offers the classic Halpern/Mulvany style wire myograph, faithful to the original design but with modern advancements. Their myographs support various tissue types, making them suitable for different applications, including force measurements in micro vessels, large arteries, airways, and more. Explore Living Systems' wire myograph options for comprehensive vascular research.



The **MYO-SC-1 Force Transducer Signal Conditioner** converts force measurements from the MYO-CH wire myograph chamber's force transducer into an analog voltage for recording with an analog-to-digital converter or chart recording device

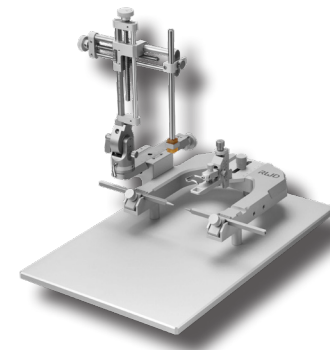
Myograph Packages

- **Single** Channel
- **Single Channel Self-Heated**
- **Two Channel Self-Heated**
- **Four Channel Self-Heated**

STEREOTAXIC, NEUROSCIENCE & OTHER PRODUCTS

Stereotaxic

Scintica offers a wide range of fully equipped stereotaxic instruments for various animal models. Choose from Standard, Digital, or Automatic options based on your precision needs. Upgrade from manual to digital and opt for single or dual manipulators. Elevate your research with our precise and efficient instruments.



Models

- Standard Stereotaxic Instruments
- Desktop Digital Stereotaxic Instruments
- Warming Stereotaxic Instruments
- Compact Mouse Stereotaxic Instruments
- Portable Rat & Mouse Stereotaxic Instruments
- Large Animal Stereotaxic Instruments
- Dog/Monkey MRI Stereotaxic Instruments

Precise Impactor



The Precise Impactors for Rat, Mice, and Monkey Spinal Cord Injuries. The Precise Impactor is designed for traumatic brain and spinal cord injuries, offering pneumatic-electric control for precise w of speed, depth, and dwell time.

Its touch screen interface and automatic zero detection ensure user-friendly and efficient operation. With a range of impact parameters and cylindrical head hammers available, the damage level can be precisely controlled for reproducible results. These user-friendly tools offer pneumatic control and accurate measurements, ensuring reproducibility and effectiveness in experiments.

Fiber Photometry System



The fiber photometry system detects real-time activity changes in central nervous system neurons. It calculates overall fluorescence of neurons to represent collective activity, not individual ones.

Tricolor Multichannel Fiber Photometry System



Compatibility with optoelectronics equipment for specific light wavelengths (410 nm, 470 nm, 560 nm). The 410 nm wavelength is utilized to acquire a reference signal and reduce noise. The system can capture signals from green fluorescence indicators such as GCaMP, dLight, neurotransmitter probes, and red fluorescence indicators.

OTHER RESEARCH PRODUCTS

Intelligent Optogenetic System



The Intelligent Optogenetics System seamlessly integrates a laser and a waveform generator. Enhanced with features like remote control, one-click test transitions, and three distinct signal triggering modes, it caters to a wide range of experimental needs. This system minimizes human interference in animal behavior experiments. Additionally, its specialized test protocols and an intuitive experiment record output function streamline and enhance experiment management.

Automated Cell Counter

Cell counters tally live and/or deceased cells within cultures. In cell culture workspaces, researchers require cell counting solutions to gauge cell concentration pre-passage or viability post-drug treatment. C100 serves as an ideal cell counting choice for labs, accommodating diverse samples such as mammalian cells, stem cells, blood cells, epithelial cells, and endothelial cells.



Minux Rotary Microtome



The new generation of microtomes are built upon market-leading microtome design. These microtomes feature superior usability with excellent safety standards for all types of sectioning applications. If working with delicate specimens (example being brain samples) the system will provide reproducible, thin, serial sections of maximum quality time and again.

Minux Cryostat

This cryostat features superior usability with excellent safety standards for all types of cryo-sectioning applications. The cryostat is able to cut tissues at temperatures as low as -35 °C. When working with delicate specimens the system will provide reproducible, thin, serial sections of the best quality. The tissue can be flattened, and the freezing is expedited with a steel weight/heat extractor to provide a smooth flat-cutting surface. Fully automated and semi-automated versions are available.



Microcentrifuge & Refrigerated Microcentrifuge



The **Microcentrifuge** is a powerful and versatile solution for every lab application, with state-of-the-art refrigeration (if needed) and a user-friendly touch screen operating system. Enjoy quiet operation and reduced run times with speeds up to 15,000 rpm, multiple mode options, and a 24-place 1.5/2.0 mL tube rotor.

ANAESTHESIA PRODUCTS & SOLUTIONS

Multi-function Anaesthesia Solution



Scintica offers complete anaesthesia systems and accessories for the smallest preclinical research subjects. These systems are designed to deliver highly effective anaesthesia with depth modulation.

Vaporizers

Anaesthesia machine vaporizer adopts advanced design to accurately control the output concentration of anaesthesia. Pour Fill, Easy Fill, and Key Fill, Cagemount and Selectatec available. Stable concentration output unaffected by flow, temperature and pressure. The built-in temperature compensator ensures the stable concentration of anaesthesia gas at different temperatures and flow rates, the flow range is 0.2-10L/min.



Oxygen Concentrator



The high purity oxygen is separated from the air by molecular sieve pressure swing adsorption (PSA) technology. ROC-5A/ROC-8A Veterinary Oxygen Concentrator is designed specifically for veterinary use. The high purity oxygen is separated from the air by molecular sieve pressure swing adsorption (PSA) technology.

Large Animal Anaesthesia Solutions

Designed for simplicity, ease of use, and safety, our large animal veterinary anaesthesia systems cater to a variety of animal species including dogs, cats, pigs, monkeys, and more.

The complete solution includes oxygen generation, anaesthesia delivery, waste anaesthetic gas absorption, monitoring, and mechanical ventilation.



HYPOXIA & ATMOSPHERIC CONTROL

Anaerobic Chambers

BugBox Ax



270 Plate Capacity

The **BugBox Ax** is the ultimate solution for microbiologists facing high workloads. With a gloveless Ezee Sleeve™ port system and energy-efficient lighting, easily read plates without oxygen exposure.

Its compact size fits small labs perfectly, while adjustable temperature and humidity create an ideal cell growth environment. Add active O₂ monitoring for precise control of anaerobic conditions

- 0.5 m² / 5.77 ft² bench footprint
- 30 plate capacity interlock
- Intuitive touchscreen interface
- Lower cost per plate compared to jars

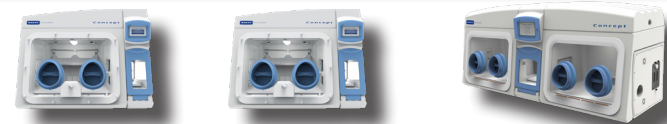
Concept



The range of **Concept** workstations are rigorously tested for maximum productivity in anaerobic or microaerophilic incubation. Packed with innovative features to study sensitive microbes, it's perfect for culturing obligate anaerobes in various situations.

The modular design offers flexibility to expand and upgrade workspaces, making it easy to use and adaptable. Save time with fast interlock purge cycles and the Single Plate Entry System (SPESTM) for efficient patient sample handling in correct anaerobic conditions.

- Internal HEPA Filtration
- Optical O₂ Sensors
- Pop-Off™ Front Cover
- Touchscreen Control
- Ezee Sleeve™
- Single Plate Entry System (SPESTM)



Models	C400	C500	C1000
Working Volume:	210.3 L	210.3 L	Two independently controllable chambers 210.3 L each
Interlock Capacity:	26 L interlock holds	41 L interlock capacity	49 L Central interlock capacity
Internal Sockets:	3 Internal Sockets		6 Internal Sockets

HYPOXIA & ATMOSPHERIC CONTROL

Cell Culture Chambers

InvivoO₂



The **InvivoO₂** workstation enables intricate cell interaction studies under optimal oxygen conditions, simulating environments like blood vessels or lung tissue. User-friendly and adjustable, it's ideal for cell culture applications that need precise oxygen control, offering stable user-defined environmental regulation and direct inner chamber access.

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> Apnea/Apnoea Pulmonary Fibrosis ADHD Sleep Apnea Ocular Angiogenesis | <ul style="list-style-type: none"> Apnea of Prematurity SIDS (Sudden Infant Death Syndrome) Ischemia Occupational Hypoxia | <ul style="list-style-type: none"> Atherosclerosis Developmental Disabilities COPD Recreational Hyperoxia |
|--|---|---|

<p>I400</p> <ul style="list-style-type: none"> Mimic Physiology: O₂ Control – from 0.1% to 23.0% Pop Off™ Front Control CO₂, Temperature and Humidity Internal HEPA Filtration Intelligent Interlock – 26 L Capacity 	<p>I500</p> <ul style="list-style-type: none"> Mimic Physiology: O₂ Control – from 0.1% to 23.0% Pop Off™ front Control CO₂, Temperature and Humidity Internal HEPA Filtration Intelligent Interlock – 41 L Capacity 	<p>I1000</p> <ul style="list-style-type: none"> Mimic Physiology: O₂ Control – from 0.1% to 23.0% Pop Off™ front Control CO₂, Temperature and Humidity Internal HEPA Filtration Intelligent Interlock – 49 L Capacity Two Independent Controllable Chambers
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SCI-tive



The **SCI-tive** hypoxia workstations enhance stem cell culture quality by maintaining consistent oxygen, temperature, and pH conditions. They mimic *in vivo* conditions and allow for the study of complex cell interactions. These workstations offer a spacious environment for all stages of cell culture, and can accommodate various equipment, replacing open bench work. Optional features include a HEPA filtration for a clean work area and an enhanced containment package for user safety.

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> Internal HEPA filtration to Class 4 (ISO 14644-1) The system logs data every minute, recording time, date, O₂ and CO₂ levels (set/actual), humidity, and temperature Ezeein Glove ports for direct hand access Multi-cable gland (up to 6 individual cables) | <ul style="list-style-type: none"> Removable from 420 L usable chamber volume CO₂ control (from 0.1% to 30.0% in 0.1% increments) Ultrasonic Humidity control (from ambient to 85% RH) Detox sachet (large) Temperature control (5 °C above ambient to 45.0° C in 0.1° C increments) | <ul style="list-style-type: none"> Interlock has O₂ control and heating Internal power sockets x3 O₂ control (from 0.1% to 23.0% in 0.1% increments) Gas sample port Vacuum port connector Alarm settings Light control (on/off, dimming function) |
|---|--|---|

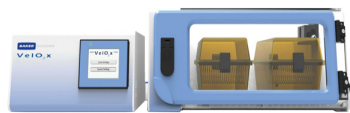
HYPOXIA & ATMOSPHERIC CONTROL

OxyGenie



OxyGenie is a miniaturized, portable low-oxygen culture system for animal, plant, and bacterial studies. It enables short-term physiological oxygen- and temperature-based studies, particularly useful for high-resolution microscopy or irradiation under relevant conditions. The system features 6 culture wells enclosed for physiological growth, situated on microscope glass for flexible experimental adaptation. It's an accessible tool for start-up validation or proof-of-concept physiological cell culture experiments.

VeLO₂x



The **VeLO₂x** system has been engineered to provide an isolated and highly controlled oxygen environment to small animal models (i.e. mouse and/or rat). By directly mimicking the oxygen conditions experienced across a wide variety of disease or treatment models, the VeLO₂x grants researchers a better understanding of how O₂ levels affect various conditions such as sleep apnea, systemic hypertension, pulmonary dysfunction, and ischemia to name a few.

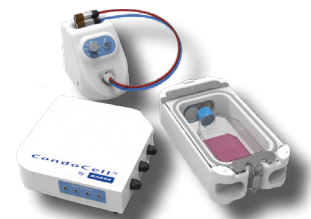
- Full control of oxygen levels
- Easy to use
- Rapid changes in O₂ levels
- Animal Welfare

ReCO₂ver™



The **ReCO₂ver™** and **ReCO₂ver™ Plus** incubators are designed to offer precision control over cell culture conditions and provide rapid recovery after interruptions. They aim to minimize the impact of door openings that disrupt the environmental parameters essential for cell growth, thus ensuring the integrity of your work. Precision in temperature, gas and humidity as well as the rapid recovery of those conditions after door openings are crucial for ensuring cells are exposed to a constant environment required for their well-being.

CondoCell



The **CondoCell** is an isolation box for sensitive cell cultures, providing a stable environment with consistent temperature, humidity and gas conditions. Compatible with any incubator or hypoxia workstation, it enables uninterrupted culture and minimizes cross-contamination risks.

LAB CONSUMABLES

Dissection Dishes



Use our high-quality, tack and bubble-free silicone-coated dissection dishes.

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These stainless-steel dissection pins are well-suited for a variety of applications

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Use our high-quality, tack and bubble-free silicone-coated dissection dishes.

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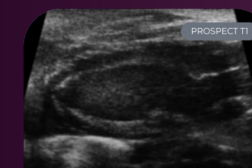


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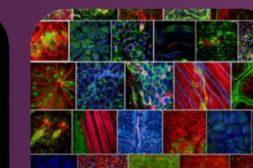
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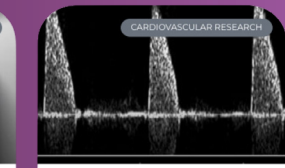
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