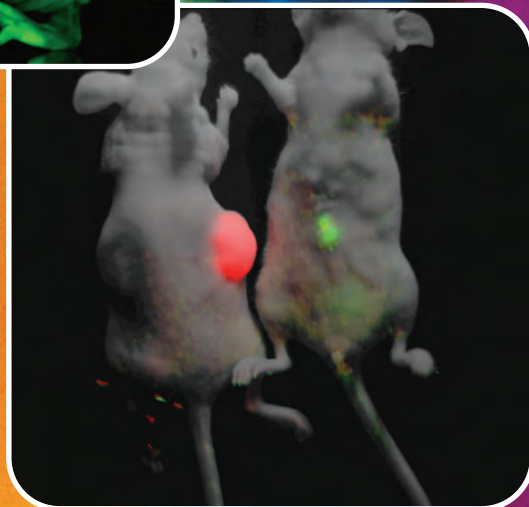
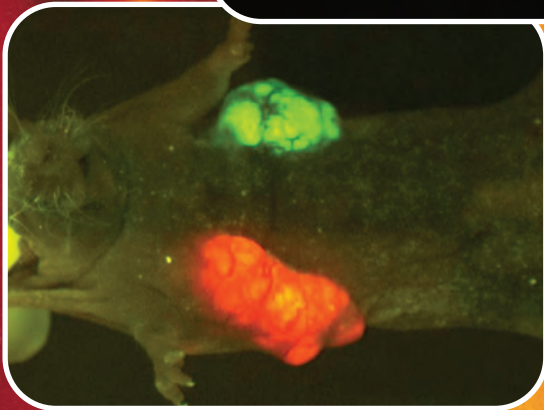


iBox[®]

Small Animal Imaging System

Advanced Fluorescent In Vivo Imaging



 UVP[®]

Anything You Can Imagine, UVP Can Image!SM

iBox[®] *Small Animal Imaging System*

Finally, the only system you need specifically for fluorescent imaging of small animals!



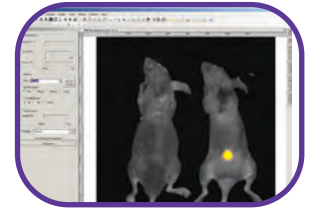
*High Resolution,
High Sensitivity Camera
and Fast Optics*



*Multi-Featured
and Automated
Darkroom*



*Automated BioLite™
MultiSpectral
Light Source*



*Accurate, Reproducible
Results with VisionWorksLS
Analysis Software*

*Partnering with AntiCancer for
Small Animal Imaging!*



Connect the BioLite™ multispectral fiber optic light source through the dual ports for epi or transillumination

Select excitation filters and intensities with the automated BioLite power source



Capture superior images with cooled CCD camera and optics

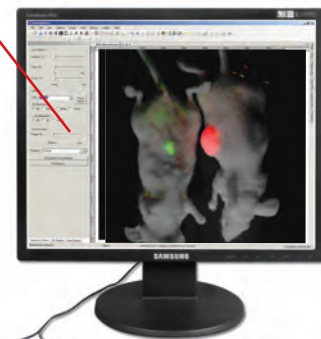
Rotate the five-position emission filter tray by software automation

Select integrated epi illumination: 365nm UV, 480nm, white light

Attach an external anesthesia unit (optional) via an access port in the back of the darkroom

Quickly adjust the motorized platform tray height

Generate accurate data with VisionWorks®LS Analysis Software

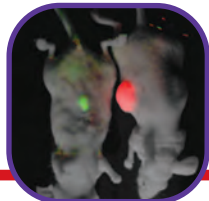
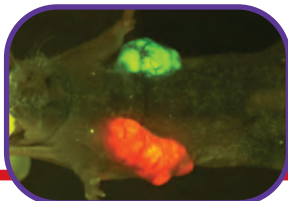


Benefits of the iBox System

The iBox Imaging System supplies researchers with high resolution, deeply cooled CCD camera and high sensitivity optics for superior small animal imaging.

- Easy to use software automates research with templates for reproducible, consistent results
- High resolution and low light sensitivity for faint target detection

- Wide spectral range with emission filters for visible, IR and UV to meet all spectral requirements (additional filter sets are available)
- Light tight darkroom provides optimum imaging conditions
- Optional anesthesia unit for small animals produces a state of immobilization that allows for acquisition of repeatable and reliable data



Applications

Applications for the iBox Imaging System include:

- Tumor studies
- Cancer research
- Heart disease
- Gene therapy

UVP has a wide range of Bioluminescence Systems for applications including fluorescent, chemiluminescent and whole plant imaging. Contact UVP for details.

Darkroom

- Software controlled automation
- Light tight for optimum imaging conditions
- Motorized platform adjusts to any location in a ten inch travel range; automated calibrating home position synchronizes the platform
- Integrated epi illumination with 365nm UV, 480nm and white light
- Dual fiber optic ports supply access to the epi or transillumination (optional) BioLite sources
- Removable LED white light plate emits high uniformity with > 5% coefficient of variance (CV)
- Access port for connecting to an external anesthesia unit (optional)
- Warming station is temperature regulated to provide optimum animal temperature during imaging procedures

Camera and Lens

The cooled BioChemi 500 CCD based camera (see page four for details) is optimized for imaging small animals labeled with UV, visible and NIR fluorescent markers. UVP offers a choice of two Field of view (FOV) lenses. The 50mm lens is perfect for imaging 1-2 mice, while the 28mm lens permits imaging of 3-5 mice.

Lens	Field of View	
	Bottom Position	Closest to Lens
50mm	16 x 16cm	8 x 8cm
28mm	30 x 30cm	14 x 14cm

BioLite™ MultiSpectral Source

- Easy installation through darkroom access ports
- Automated selection of filters or intensity settings
- Epi fiber optic light source
- Eight excitation filter positions to accommodate a variety of filters for specific applications
- Matched excitation/emission green fluorescent protein GFP, RFP and custom filter sets available
- Six intensity settings allow adjustments ranging from 0 to 100% relative intensity

VisionWorks®LS Software

- Easy to use software plugins allow selection of darkroom and optics settings
- Users can define macros and templates for repeat experiments
- Extensive acquisition and powerful analysis capabilities including area density analysis
- Single user or network versions
- Supports CFR 21 Part 11 compliance
- Compatible with Win 2000 and XP SP4



Technical Support

UVP provides customers with support from a world wide network of Bioluminescence Specialists, Distribution Partners and Technical Support. Live, on-line technical assistance and training are available.

IQ/OQ Documentation

UVP offers Installation Qualification (IQ) and Operational Qualification (OQ) documentation for installation and operation of the iBox System that will enable researchers to easily comply with the FDA and other regulatory bodies. The documents integrate Good Manufacturing Practice (GMP) and Good Laboratory Practice (GLP) requirements for equipment used to produce image analysis data and are consistent with 21 Code of Federal Regulations (CFR) Part 11. Contact UVP for information.

Partnering with AntiCancer, Inc.

The iBox System combines UVP's innovative world class imaging system with AntiCancer's proprietary fluorescent protein based small animal imaging technology, providing researchers with access to extensive techniques and applications technology.

Ordering Information

Each iBox System includes a camera/lens configuration, darkroom, warming station and BioLite kit. VisionWorks LS Acquisition and Analysis Software may be configured with the system or ordered separately.



System Name	Camera
iBox 500	BioChemi 500

Darkroom Specifications:

Light Sources: White Light (epi and transillumination), 365nm UV, 480nm
Emission Filter*: Five-position wheel includes:
 2 Filters: GFP and RFP
Controls: Automated, software controlled
Platform: Motorized with 10 inch range
Warming Station: Temperature controlled
Darkroom Dim.: 17.5W x 17.5D x 32H in.
 (445 x 445 x 813 mm)
 Plus camera cover

BioLite Automated MultiSpectral Source:

Light Sources: 150 Watt Halogen
Fiber Optic: Epi illumination with light head mounted to the darkroom or tray
Excitation Filter*: Eight position wheel includes:
 2 Filters: GFP and RFP
Controls: Software (shown) or Manual
Dimensions: 8.75H x 7W x 10D in.
 (222 x 179 x 254mm)

VisionWorksLS Software:

Configured with system or separately.

Plugins: Interface with camera, darkroom and BioLite unit
Tools: Macros and templates, plus enhancement tools
Analysis: Extensive functions include area density measurements
Documentation: Create reports and export data
Compliance: Supports 21 CFR Part 11 compliance
Compatibility: Win 2000, XP (SP4)

Computer and Monitor:

Contact UVP for the latest high specification computer and monitor (ordered separately)

*Additional filter sets available.

Transilluminators:

UV transilluminators and BioLite multispectral visible light transilluminator are available for use with the iBox System. Contact UVP for ordering information.

iBox® Small Animal Imaging System is sold under license from AntiCancer, Inc. allowing scientists to optimize their research using an extensive array of patented fluorescent protein imaging applications technologies. Go to UVP.com or contact UVP for patent information.

Camera Specifications**	BioChemi HR 500
CCD Bit Depth	14 bit
File Bit Depth (Analog to Digital)	16 bit
Grayscale Range	65,536
Pixel Resolution	2048 x 2048
Megapixels	4.2
Cooling Type	-28°C Absolute and Regulated 2-Stage Peltier
Chip Source	Kodak KAI-4021M
Binning Modes	1x1 thru 8x8
Captured Image Size (TIF)	8.2mb @ 16-bit
PC Interface Connection	USB 2.0
Peak Quantum Efficiency:	55%
Lens Options:	50mm f/1.2 Motorized Lens 28mm f/1.8 Motorized Lens

** iBox System is available with other camera/lens.

Anesthesia Units:

Optional anesthesia equipment provides easy-connect, dedicated ports for inlet and outlet isoflurane gas lines. The heat controlled warmer plate maintains a constant 37°C for prevention of mouse hypothermia. Select from a basic single mouse station or up to five-port manifold which allows multiple mouse imaging. A pull-out tray enables hassle free placement of mice in the darkroom chamber. The system features patented rebreathing technology.



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