

## BioSoft Toolbox® II for Swine 2.5



- Image capture, interpretation and database all in one fully integrated and convenient software program.
- Automatic fat and loin depth measures on longitudinal images with manual override.
- Improved marbling (IMF) determination with multiple Region of Interest (ROI), flexible ROI size and improved prediction models.
- Supporting Aloka SSD 500V, Exago and Aquila Vet ultrasound scanners.
- More convenience with a USB based frame grabber.
- Supports Exago with the Biotronics Direct Digital Interface.

The BioSoft Toolbox® II for Swine offers the swine breeder and swine breeding companies the most comprehensive ultrasound support tool ever developed and marketed. BioSoft Toolbox® II for Swine is user friendly and has been upgraded with many powerful features. The program has been completely redesigned from the ground up, but retains the flexibility to allow the user to go back and re-analyze and re-process previously captured images. One of the major enhancements is the automatic processing of fat and loin depths from longitudinally captured images. This feature allows the user to determine the number of fat and loin depth measures to be included in average measurements for these traits. The ability to program custom animal fields and image measurement fields offers so much flexibility.

The Biotronics research team is the world leader in the development of texture analysis tools that can be used to accurately determine the amount of intramuscular fat (IMF) in the loin muscle. Research is ongoing in this area, and this new software package includes the most recent innovations. The technology has been extended to support more than one real-time ultrasound scanner. Based upon the research of Biotronics, it is our opinion that both the Aloka SSD 500V and the Aquila Vet scanners provide the quality of images required to make accurate IMF determinations for live swine. This new software now supports a USB-based frame grabber image capturing device.

### BIOTRONICS, INC.

World leaders in the development of ultrasound technologies for food animal industries. Products are marketed world-wide for genetic improvement of swine.

### SCIENTIFICALLY BASED

The management and research team at Biotronics, Inc. has more than 60 years of combined research and development experience in the application of ultrasound technology to improve meat quality characteristics in swine and beef cattle.

### CONTACT

Biotronics, Inc.

1609 Golden Aspen Drive

Suite 105, Ames, IA 50010-8011

USA

Tele: (515) 233-4161

Fax: (515) 233-4163

[contact@biotronics-inc.com](mailto:contact@biotronics-inc.com)

[www.biotronics-inc.com](http://www.biotronics-inc.com)



# Features and Benefits

## TECHNICAL SUPPORT

Biotronics maintains a staff of highly trained and capable resource persons that are available to provide telephone or email support.

## EASY INSTALLATION

First time installations and upgrades are available from the Biotronics web site client server for a very fast turnaround. Each user will be provided a username and password to use this feature.

## CUSTOM SOLUTIONS

Biotronics wants the client to tell us how we can best support them with their specialized needs. Just making a sale is not our objective, we want to make a long term support commitment to each and every client.

For more information on any of our products or services please contact us at:  
contact@biotronics-inc.com



## System Requirements

- **Ultrasound Scanners Supported:** For IMF predictions the Aloka SSD 500V with the UST 5011 12.5cm probe, the Exago or the Aquila Vet with the ASP 18cm probe are supported. Additionally for distance and area measurements for the Classic 200, Falco 100, Aloka Prosound 2, Sonovet 2000 and Vet Scan are supported. Biotronics is presently a distributor for Aloka and is constantly evaluating new technologies to add to the list.
- A laptop computer with at least 2 USB ports and with Windows® 2000, XP, Vista, Windows 7 or Windows 8 operating system is required to run the software.
- USB frame grabber is supplied with new purchases and is available for purchase through Biotronics for clients who are upgrading to this new software.
- The BioSoft Toolbox ® II software accepts either NTSC or PAL video signal and will automatically detect the type of signal being provided by the ultrasound scanner.

This product is based upon research supported by the Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture, under Agreement No. 2007-33610-18441. Biotronics subcontracted Iowa State University, Department of Animal Science, for personnel and swine support resources as a part of this development. The technology behind Biotronics' products is covered by several pending patent documents.

Swine breeders who use ultrasound in their genetic improvement programs have generally invested a large amount of time and resources into this technology. That makes it very important to have the capability to analyze previously captured images if they have been using older versions of the BioSoft Toolbox® software. This new release of software will allow the client to retrieve those images and to make the necessary front end changes for any desired re-processing.

The BioSoft Toolbox® II for Swine is not just an image capturing and interpretation system anymore. This software has a built in database that can be used to assemble and maintain contemporary group information. This includes the ability for the client to define custom data fields that can be captured at time of scanning.

## SERVICES AVAILABLE

- Technical Support
- Installation and Setup
- Maintenance
- Image Quality Assessment
- Application Support
- Hardware Support



Biotronics, Inc.  
1609 Golden Aspen Drive, Suite 105  
Ames, IA, 50010-8011, USA  
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Fax: (515) 233-4163