

3D Digital Microscope PRO-3D

Extend your stereomicroscope with the functions for true 3D imaging!



PRO-3D is an additional set that extends stereomicroscopes with functions for true 3D imaging on a special 3D LCD display and capturing of 3D and 2D digital images.

How does the system work?

The stereomicroscope is equipped with two optical outputs on which two digital cameras are attached. Each camera captures the image for corresponding eye. Both images are processed by the application software and displayed on a special 3D LCD display, which allows the spatial observation without any 3D glasses. The spatial effect is so persuasive, that the specimen seems to be so protruded from the screen that it can be grasped.

What does the system offer?

- 3D live image of the observed specimen displayed on a 3D monitor
- 3D observing for up to 3 persons using a single 3D monitor
- Possibility to connect several 3D monitors (using a video splitter) for educational and demonstrational purposes
- Capturing tridimensional digital images and saving to .jps files. Complete tridimensional image information can be stored in this way.
- Display of saved 3D images
- Capturing and saving standard 2D digital images

Who is the system intended for?

The PRO-3D system is intended for users of stereomicroscopes.

Where can be the system used?

PRO-3D system can be used in all fields where the stereomicroscopes are useful, e.g.:

- Biological and medical fields – e.g. anatomy, entomology, botany
- Archeology, geology, mineralogy
- Display and control in technical fields – e.g. quality control, control of printed circuit assembly...
- Education

What does the system consist of?

The PRO-3D set contains all the parts necessary for creating the 3D digital microscope from a standard stereomicroscope:

- 3D LCD display
- 2x digital USB 2.0 CMOS camera
- Application software
- Optical devices for attaching the cameras to a stereomicroscope
- PCI USB 2.0 controller for connecting the cameras
- Objective micrometer for calibration

What is necessary to create the 3D microscope?

- Stereomicroscope with an illuminator
- PC with the following minimal parameters:
 - 3 GHz or Dual Core processor
 - 1GB RAM
 - 2X USB 2.0 port
 - Microsoft® Windows® XP/7 operating system

Compatible stereomicroscopes

- OLYMPUS® SZX and SZX2 series

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