Motic®

More Than Microscopy

MoticNet

Digital Science Station
Networking for School

Network your Classroom
Each Digital Microscopy Station consists of three core elements

MoticNet represents the next step in Science Classroom Management. Designed for and inspired by the success of Digital Microscopes running with Motic Images Application systems such as Motic Images Plus 2.0ML, Motic Educator and Motic Play, MoticNet allows such Digital Microscopes to be linked so that one teacher can have full and instant access to any student at any time.

Microscope

Each Microscope still remains the core of the class. With crisp and clear optics, the image through the eyepiece(s) are full of colour and contrast. Microscopes are available in different shapes and forms. With new LED illumination technology, the microscopes of today are easier and safer to use than ever before.
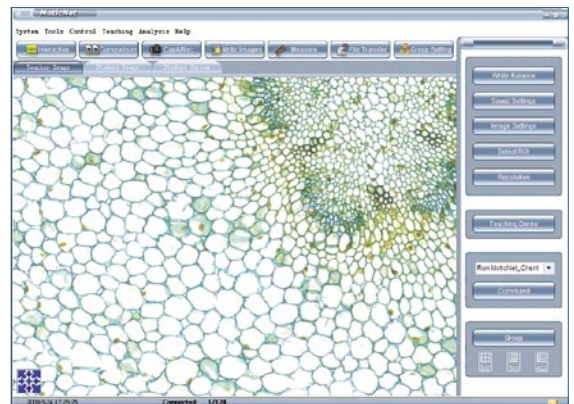

Imaging Device

In order to digitize the image and transfer it in real-time to a computer, an Imaging Device is needed. This can come in two different forms. Either the microscope already has an imaging device built-in, or any microscope can be retro-fitted with a Moticam attachable camera. There are multiple imaging chips available ranging from 800x600 pixels to 5.0 Megapixels in Live Resolution. There are also units available with multiple outputs combining USB, RCA and S-Video outputs in one device.

Application Software

Motic's own application software is included with every Motic Digital device. We ensure that all core parts of image analysis for school-students are catered for. Precise and repeatable measuring tools are included in each software version allowing students to easily and quickly learn from the image either by themselves or in teams.

Having a live image transmitted at high-speed directly from the microscope onto the computer means that students no longer have to fight over who gets to look through the eyepiece. Discussions, team-work and group thinking are now made easy with a Digital Microscope.
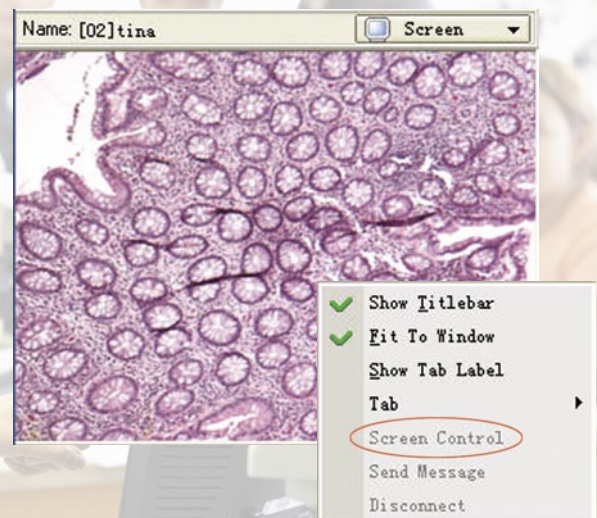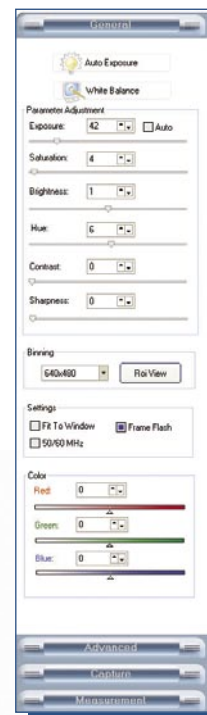
MoticNet lets you manage your class with ease

MoticNet offers the teacher a live overview for each student Digital Microscope Station. This overview can be extended to cover 48 or more individual computer stations so that even larger classes can be managed by a single teacher with ease. Knowing instantly what is going on at each station, the teacher can focus on presenting the actual teaching material. Such technology is vital in the course of ensuring that no student should be left behind.

With Digital Microscopy at its core, the teacher can not only have a complete overview over each student station, but also control and manipulate the quality and colour of each student's microscope image. Instead of having to walk around the classroom looking down each student's microscope, you can now adjust the image and instruct the students from a central station.

MoticNet extends its focus and usefulness even outside of teaching with microscopes. Having connected and networked each computer station and linked them to a central control computer for the teacher, MoticNet also allows each student station to be completely controlled. Therefore, even third party programs, such as Mathematics or Language software, can be launched and used with MoticNet as a networking program. Allowing full remote keyboard and mouse control, any Windows-based program running on any computer can be launched, controlled and manipulated remotely by the teacher.

Teaching tools are of course integrated into the system as well. With various text-based programs ranging from instant messages instructing a particular student that he is looking at an air bubble to multiple-user virtual chat rooms, the teacher can easily communicate with each and every student.

Teacher demonstrations are broadcast to the entire class through the simple click of the mouse. Similarly, if one student has something interesting to show, that live image can instantly be routed to the rest of the class.

MoticNet Configurations

- MoticNet is available in multiples of 8 students starting with 1 Teacher connecting to 8 students, then 1 Teacher connecting to 16 students and so on. MoticNet software can support a connection of up to 100 students to one teacher, however you are strongly urged to check with your Motic dealer about the hardware configuration of the teacher's computer.

MoticNet Technical Notes

- If you are considering a networked system such as MoticNet to make your science classes more interactive and efficient, please don't hesitate to consult with a Motic Representative to discuss your exact needs. MoticNet works with all Digital Microscopes that come supplied with Motic Images hardware, MoticNet also works with all Moticam and Moticam Pro solutions. The exact configuration of digital microscopes or cameras to work with your old microscopes can be changed to suit your exact needs.

- This system is largely based on Wired LAN installations. Due to the high-resolution live imaging and limited bandwidth of Wireless technology, we do not recommend using MoticNet in a wireless configuration. As wireless technology continuously improves, check back with us for any updates.

MoticNet Compatibility

- MoticNet works with Motic branded digital microscopes or Moticam solutions.
- MoticNet also works with any other brand digital microscope that are shipped with Motic application software
- MoticNet now also works with most Swift branded digital solutions

Motic®

More Than Microscopy

Design Change : The manufacturer reserves the right to make changes in instrument design in accordance
            with scientific and mechanical progress, without notice and without obligation.

Motic® Certified ISO 9001
Certified ISO 14001

Code No.: 1300901301612

Updated: 2009 09