Motic

Digital Microscopy

moticam 2000
2.0M Pixel USB2.0

Motic DigiLab II

The Second-Generation Digital Teaching Environment
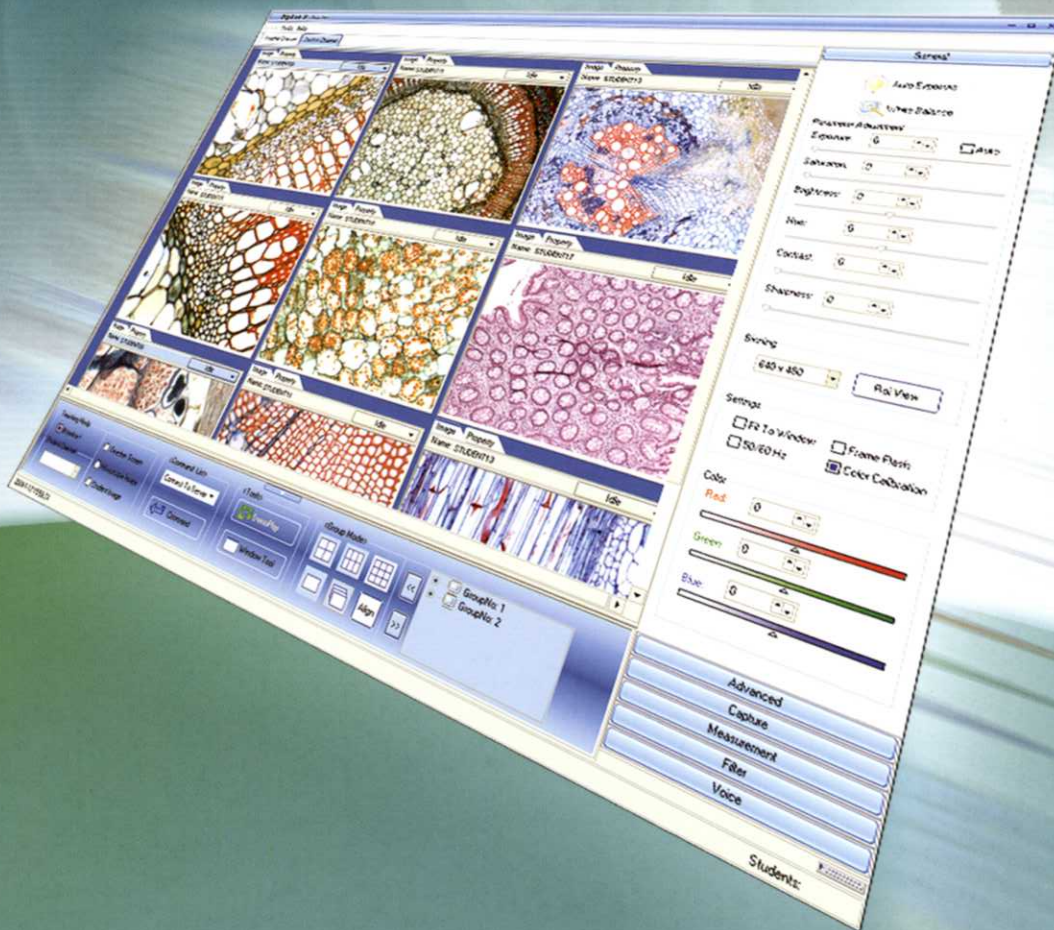
DIGILAB ®

DigiLab II

rev2olution

second generation digital teaching environment

A revolution in how microscopes are being used in a classroom environment, Motic's new digital DigiLab II solution comes hot on the heels of the already popular DigiClass I analog version.

For many years, using microscopes in a classroom environment has been associated with a great deal of time being spent on walking around the room making sure that each student has set the microscope up properly and is looking at the right image through the eyepiece.

This resulted in the teacher not being able to focus on teaching the material and has made using microscopes in a classroom a chore rather than a joy. Students become easily frustrated and disillusioned if they cannot follow the class properly.

As a leading manufacturer of Digital Microscopy - including hardware as well as application software - **Motic** has been asked to find a way to allow each student to operate his or her own microscope while allowing the teacher to follow the student's progress and see exactly what the student is seeing through the eyepiece. Imagine that there are 40 students in this class, each with his own microscope, each looking at a speciment at his own time. Now imagine being able to see each student's microscope image in real-time streaming video without having to leave your desk.

Motic's new DigiLab II makes it all possible. This solution can link **Motic Digital Microscopes** or **Moticam** units to one central overview station through existing Intranet Network lines. Any classroom or teaching lab can be retrofitted to include this state-of-the-art teaching tool.

DigiLab II offers the teacher a livestream overview of a maximum of 48 independent student digital microscopy stations. This software-controlled microscopy management system guarantees that each student or researcher has the ultimate in flexibility and independece while giving the teacher the peace of mind in the capability of being able to view each live image at the same time.

Microscope View

A simple click of the mouse will enlarge any microscope stream from the live overview. Each image can be fully adjusted and enhanced remotely therefore ensuring optimum quality for teaching purposes. Any image stream can also be broadcast to the entire class.

Screen View

DigiLab II supports high-speed data transfer enabling a high frame-rate link between the Digital Imaging stations on the network. Should any student be faced with any difficulties, the teacher can take full control of any computer at any time. Through this link, both keyboard and mouse controls are taken over and third-party programs can be operated as well.
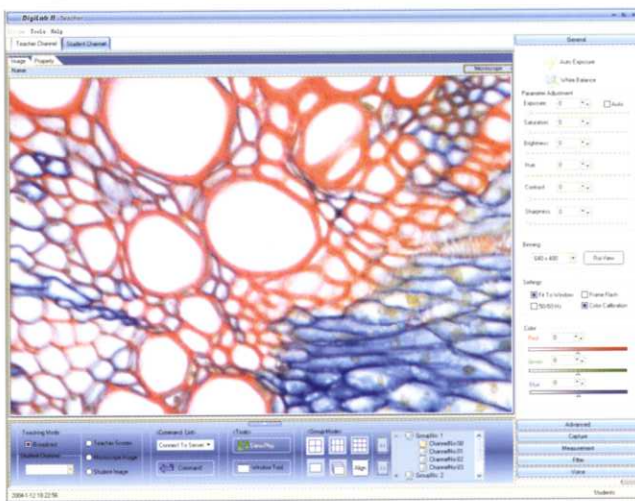
- Each Digital Microscopy Station is fully independent running Motic Digital Microscopes and Motic Application Software.

- The **DigiLab II** system runs as a link between each station encoding the live image from each microscope or camera and sending it directly to the teacher's overview screen.

- The Teacher has full control in respect of

Images

- Each student's live image can be adjusted for colour, noise reduction, RGB, Hue, Contrast, White Balance and much more

- The teacher can independently capture still, time lapse and moving images from any student computer

- Any student's or the teacher's microscope image can instantly be broadcast in real-time to all other computers

Network

- Since all computers are linked via an existing Intranet, the teacher can choose any student and select different groups for classroom management

- An integrated digital audio system is also included supporting private and group conversations as well as lecture modes

- Instant messaging ensures that the entire class is still able to communicate with each other in a simple and effective way

- The teacher's computer has full control over the students' stations and when class is finished can even remotely switch-off all computers

# DigiLab II helps the teacher help the individual student

The teacher can broadcast any image (teacher or student) to the entire class
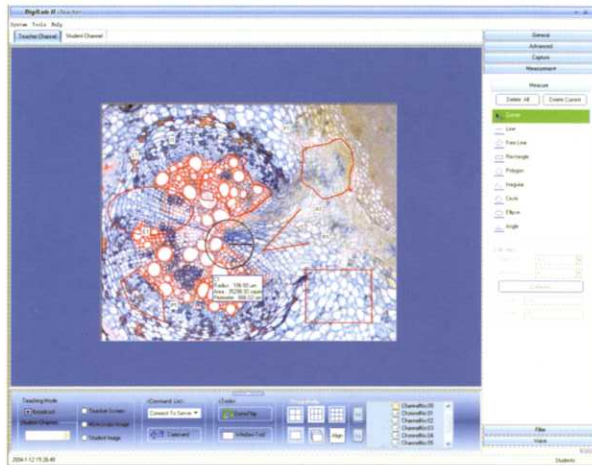
DigiLab II is a software-only solution. This means that all aspects of screen and image control can be operated through the simple click of a mouse. This includes full broadcasting control. Use *DigiLab II* to lecture students with a demonstration microscope and slide. Every student can follow the class on their own computer screen. If one student has found something interesting simply enable that student's image to be broadcast to every other computer on the *DigiLab* network.
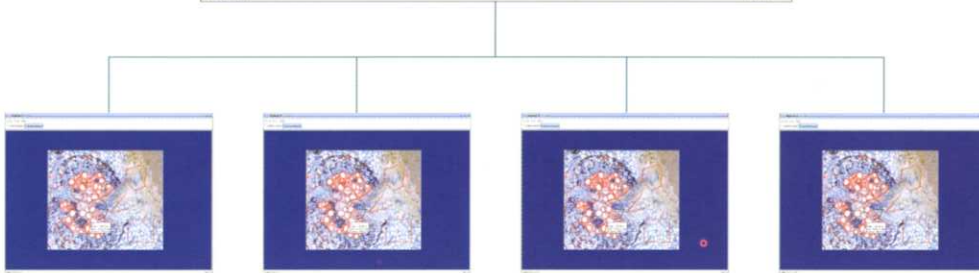
Both students and teacher are able to capture still, time lapse or moving images
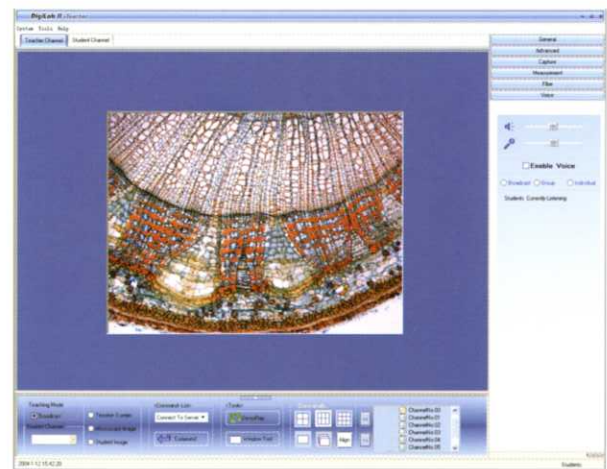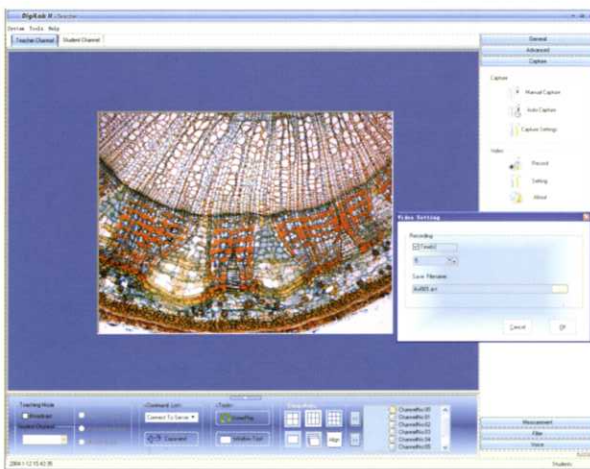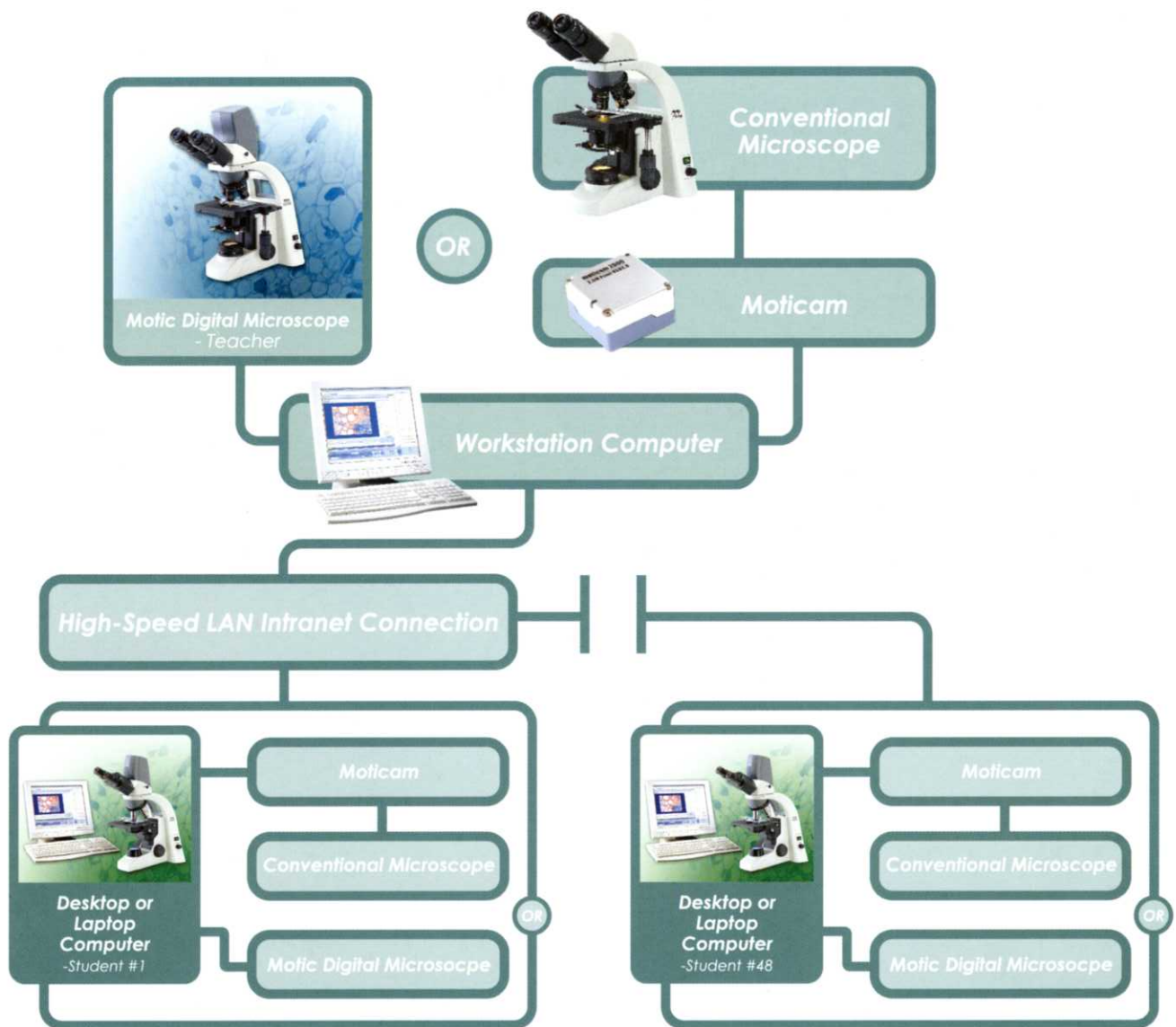

DigiLab II includes an integrated Digital Audio communication system. Each student can follow the class using a simple headset plugged into the student's computer. This multi-media tool includes three audio switching choices. The software also includes a short-messaging service so that pointers, comments or interesting findings can easily be communicated to the entire class.

Students as well as teachers are able to capture still, time-lapse or moving images to their computer for further quantification using **Motic's** advanced image application software **Motic Images Plus 2.0ML**.

System Set-up

Motic Digital Microscope - Teacher

OR

Conventional Microscope

Moticam

Workstation Computer

High-Speed LAN Intranet Connection

Desktop or Laptop Computer -Student #1

Moticam

Conventional Microscope

OR

Motic Digital Microsocpe

Desktop or Laptop Computer -Student #48

Moticam

Conventional Microscope

OR

Motic Digital Microsocpe

■ The **DigiLab II** system is fully scalable. Each Imaging Station consists of a Motic Digital Microscope or any brand of microscope fitted with an attachable Moticam imaging device. This digital device is attached to a computer running the included Motic Images Application Program and can therefore be used as a completely independent system. Link these stations together through an Intranet system and control all information flow through a designated Teacher Station with the DigiLab II software.

■ The **DigiLab II** system can connect up to 48 imaging stations through a high-speed Intranet connection

DigiLab II configurations

DigiLab II is available in the following configurations:

Order Number	Software	Max. Number of Students
SE99.0937	DigiLab II-8	8
SE99.0320	DigiLab II-16	16
SE99.0321	DigiLab II-24	24
SE99.0322	DigiLab II-32	32
SE99.0323	DigiLab II-40	40
SE99.0324	DigiLab II-48	48

DigiLab II Minimum Hardware Requirements

Teacher's computer:

- Dual CPU P4 1GHz
- RAM: 512MB
- Hard Disk: 40GB
- PCI sound card
- Network card Ethernet 10/100M
- Display card: 32M (compatible with Microsoft DirectX8.0 or above)
- IEEE1394 or USB2.0 card or built-in
- Windows® 2000 or XP

Student's computer:

- CPU P4 1GHz
- RAM: 256M
- Hard Disk: 20G
- PCI sound card
- Network card Ethernet 10/100M
- Display card: 32M (compatible with Microsoft DirectX8.0 or above)
- IEEE1394 or USB2.0 card or built-in
- Windows® 2000 or XP

DigiLab II is based on and uses existing Intranet networks

Motic®

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Motic® Certified ISO 9001
Certified ISO 14001

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