

# MoticNet

Digital Science Station Networking for Schools



Microscope Network



Windows Based

Image Control

Computer Control

# MoticNet: Network your Classroom

Each Digital Microscopy Station  
consists of three core elements

## 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.



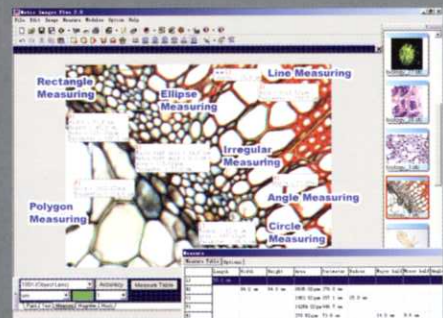
## Imaging Device

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 chips available ranging from 640x480 to 2.0 Megapixels in **Live Resolution**. There are also units available with multiple outputs combining USB, RCA and S-Video outputs in one device.

*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.

## 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.

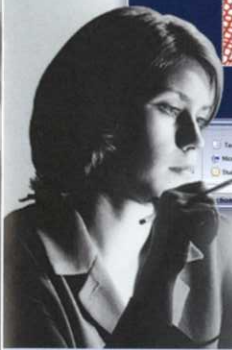


- ❑ Having a live image transmitted at high-speed directly from the microscope onto the computer means that students no longer have to fight over who gets to look through the eyepiece. Discussions, team-work and group thinking are now made easy with a Digital Microscope.



# 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 a maximum of 48 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.



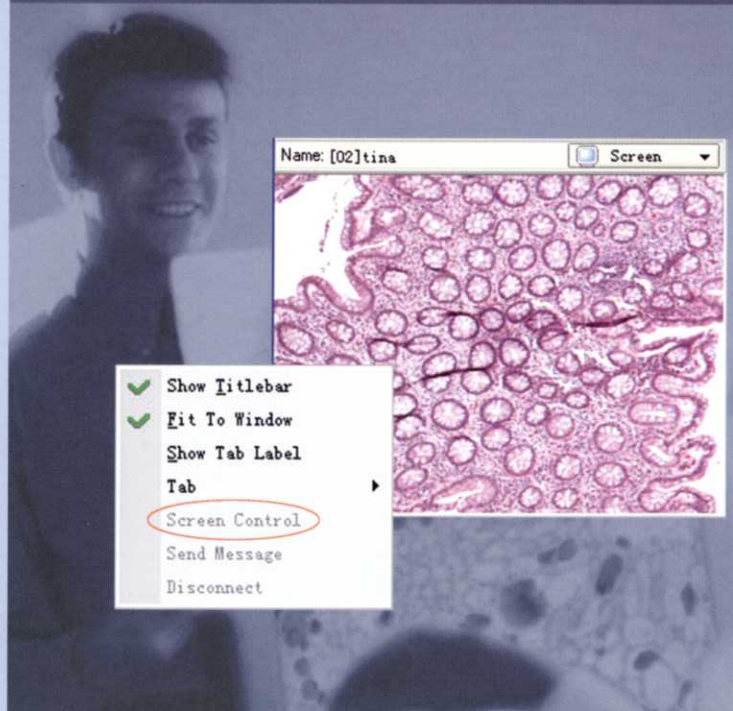
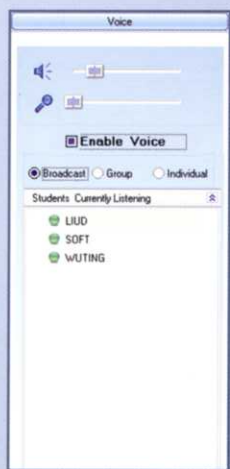
With Digital Microscopy at its core, the teacher can not only have a complete overview over each student station, but also control and manipulate the quality and colour of each student's microscope image. Instead of having to walk around the classroom looking down each student's microscope, you can now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



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. For those with a need for Audio communication, MoticNet also includes an integrated digital audio communication system; simply equip each computer with a headset and microphone.

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** 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.



# MoticNet Configurations

MoticNet is available in the following configurations:

Order Number	Software	Max. Number of Students
SE99.0312	MoticNet II-8	8
SE99.0325	MoticNet II-16	16
SE99.0326	MoticNet II-24	24
SE99.0327	MoticNet II-32	32
SE99.0328	MoticNet II-40	40
SE99.0329	MoticNet II-48	48

## MoticNet Recommended Requirements (Based on MoticNet - 48)

- Pentium 4 3.0GHz or better (Teacher's Computer)
- Pentium 4 1.8GHz or better (Student's Computer)
- 512MB RAM or better (Teacher's Computer)
- 256MB RAM or better (Student's Computer)
- 40GB Hard Disk
- PCI sound card (optional for Audio system)
- Network Card Ethernet 10/100M
- Display Card: 64MB (Compatible with Microsoft DirectX8.0 or above)
- USB2.0 card or built-in (For 1.3MP or 2.0MP live resolution cameras and microscopes)
- Windows® 2000 or XP
- Any Moticam with USB connection or Digital Microscope running on Motic Application Software

# Motic®

Web Site: <http://www.motic.com>

#### **Motic Incorporation Ltd. (HONG KONG)**

Rm 2907-8, Windsor House, 311 Gloucester Road, Causeway Bay, Hong Kong  
Tel: 852-2837 0888 Fax: 852-2882 2792

#### **Motic Instruments Inc. (CANADA)**

180-4320 Viking Way Richmond, B.C. V6V 2L4 Canada  
Tel: 1-877-977 4717 Fax: 1-604-303 9043

#### **Motic Deutschland GmbH (GERMANY)**

Gewerbepark Spilburg, Spilburgstrasse 1 D-35578 Wetzlar Germany  
Tel: 49-6441-210 010 Fax: 49-6441-210 0122

#### **Motic Spain, S.L. (SPAIN)**

Polígono Industrial Les Corts, Camí del Mig, 112 08349 Cabrera de Mar, Barcelona Spain  
Tel: 34-93-756 6286 Fax: 34-93-756 6287

#### **For inquiries in UK (UK)**

Saracens House, 25 St. Margarets Green, Ipswich, IP4 2BN, Suffolk, UK  
Tel: 44-(0)-14732 81909 Fax: 44-(0)-14732 11508

Motic Incorporation Limited Copyright© 2002-2004. All Rights Reserved.

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: SP010254