

The best way
to learn science

fourier



NOVA SCOPE

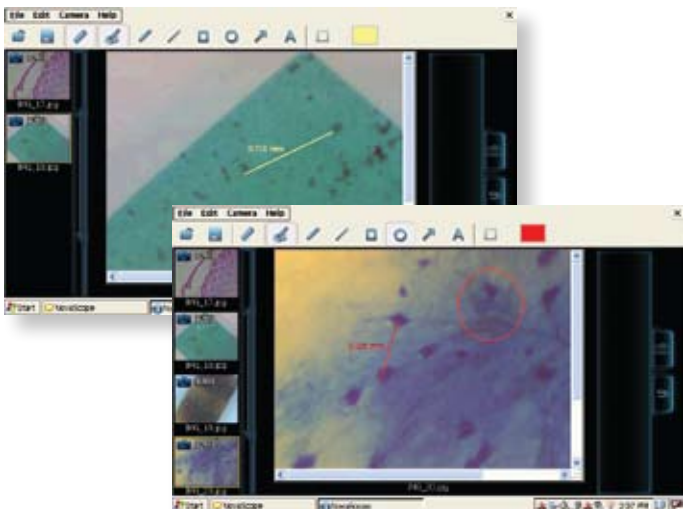
Light, Robust, Portable and Multi-Functional:
NovaScope is the ideal K-12 science microscope solution

Works with Nova5000
and NovaCentro

Offering the best in microscopy, *NovaScope* integrates multi-functional technology into 21st Century science learning. Students benefit from a powerful microscopic tool, as well as multi-purpose digital camera for video and stills. The *NovaScope*, empowered by Nova portable science data logging, enables students to conduct field experimentation and explore scientific phenomena hands-on. Integrating microscopic research into data logging allows students to make real observations from every angle. Applying *NovaScope* when studying organisms or substances, students can then save their observations for later reference, as well as incorporate saved files into research assignments or presentations. Working with the Nova touch screen, students can trace the pattern of the image fed from the microscope, add annotations to the picture, as well as use the measurement tool to record the objects real life measurements.

NovaScope is the ultimate portable microscope for field research and experimentation:

- Easily installed and leveraging powerful Nova functionality
- Powered by tailor-made NovaScope scientific software
- Portable – light and robust for outdoor as well as Lab activities
- Multi-functional – live video, video recording and stills images
- Spanning K-12 school curriculums and technology ability
- Annotation overlay for notes placement on captured video or stills
- Object measurement tool - real life units of live/captured image
- Captured images browser



Just some of the many outdoor and laboratory activities students are experiencing with the *NovaScope*:

- Observe in intricate detail the structure of plants
- Examine different small organism adaptations and understand their survival functions
- Investigate the crystal size and shape in different rocks
- Analyze soil samples in different environments
- Locate the nucleus in plant and animal cells
- Investigate and explain how uses of everyday materials are related to their physical and simple chemical properties, e.g., fabrics, metals, plastics and household substances
- Distinguish materials microscopically to compare structure and relate this to their use (for example in plastics, paper and fibers)
- Determine the physical properties of different types of chemical substances
- Scrutinize chemical reactions on a microscopic scale, for example the reaction of carbonates with dilute acid
- Explore the effect of using catalysts on chemical reactions



NovaScope Specifications

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|---------------------------------|---|
| Image sensor: | 2.0 Mega Pixels |
| Video capture resolution: | (XP only: 1600 x 1200, 1280 x 1024), 640 x 480, 320 x 240 |
| Still image capture resolution: | (XP only: 1600 x 1200, 1280 x 1024), 640 x 480, 320 x 240 |
| Color: | 24-bit RGB |
| Lens: | Dual axis 27X & 100X, Microscope Lens |
| Flicker Frequency: | 50 Hz / 60 Hz |
| Frame Rate: | Max. 15/s under 600 lux brightness |
| Magnification Ratio: | x50 or x200 |
| Shutter Speed: | 1 sec to 1/1000 sec |
| Video Format: | AVI |
| White Balance: | Auto |
| Exposure: | Auto |
| Light Source: | 6 LED White Lights with Light Control Wheel |
| PC Interface: | USB 2.0 (1.1 Compatible) |
| Operation System: | Windows CE |
| OSD Language: | English |
| Power Supply: | 5 V DC from USB Port |
| Size: | 110 mm (L) x 33 mm (R) |

