COOLSCOPE

Believe your eyes.

The all-in-one digital microscope that transcends the current concept of a microscope

- **Simultaneous macro and micro views of slides**
- **Simple mouse-click operation**
- **Instant recall of observation conditions**
- **Network interface & web server function**
- **No equipment setup or optical adjustments necessary**

Nikon's COOLSCOPE is a fully integrated digital solution for modern microscopy that incorporates state-of-the-art engineering. Its revolutionary design transcends the conventional concept of a microscope to an all-in-one digital microscope & imaging system built on Nikon's high-precision optics & innovative technology. The COOLSCOPE is the perfect choice for users of all levels for various applications in hospitals, medical and clinical labs, as well as in educational classrooms or collaboration over a network or internet, and many more.

www.coolscope.com

Nikon® COOLSCOPE

ALL-IN-ONE DIGITAL MICROSCOPE THAT TRANSCENDS THE CURRENT CONCEPT OF A MICROSCOPE

Intuitive Click & Go Operation

The COOLSCOPE operates with a simple click of the mouse. Direct the mouse cursor to the desired position on the macro image of the slide and the magnified image is displayed instantly! The COOLSCOPE combines digital imaging and microscope control into an easy-to-use package. There is no equipment setup, no software installation, or optical adjustments necessary. The COOLSCOPE is the perfect solution for microscope users of the digital world.

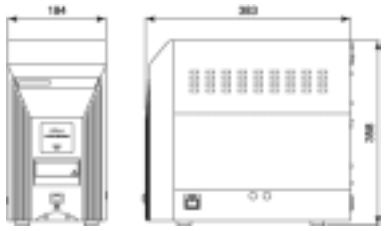
Superior Engineering Design & Features

High resolution images are produced with the COOLSCOPE's high-density CCD and Nikon CFI Optics united into a single ergonomic design. The COOLSCOPE enables the user to capture images utilizing various imaging features & camera modes. The COOLSCOPE's intuitive Graphic User Interface (GUI) offers simultaneous viewing of the slide's macro and micro images for instant accessibility anywhere on the slide. The Memory feature enables the user to view and store up to 12 coordinate positions of the specimen slide and recall the exact image every time. The COOLSCOPE can recall these exact observation conditions with the respective slide, at any time. The Split Screen Display offers comparison of a saved image to a live display on the same screen. Setting up a microscope for digital imaging never offered such great features and simplicity!

Digital Microscopy Communications & Control

The COOLSCOPE combines the benefits of digital communications with real-time network and internet capabilities of modern communication technology. Its enhanced web browser Graphic User Interface (GUI) enables full remote-access of the COOLSCOPE via its internal Ethernet 10/100 Base-TX port. Multiple users at remote sites can simultaneously observe slides and save images. The COOLSCOPE opens new doors to remote-site consultation, shared access, and image retrieval with HTTP server, Telnet server, FTP server, FTP client, and DHCP compatibility. COOLSCOPE welcomes all PC and Mac computers with its platform-independent design.

Dimensions



Communication Interfaces

Specifications

Samples observable	1 slide glass preparation (up to 1.7mm total thickness including slide glass and specimen)
Compatible slide glass	Up to 1.2mm in thickness, 26mm in width, 76mm in length (ISO 8037 compliant)
Compatible cover glass	No.1 or No. 1.5
Observation method	Transmitted brightfield
Observable area	Entire area of a slide glass preparation (26 x 76mm)
Image display mode	Macro (full slide glass preparation area) and Micro images (partial enlargement)
Optics	CF corrected infinity optics
Illumination	White LED
Focusing	Auto-focus and Manual
CCD	2/3-in. CCD (total number of pixels: 5.24-mega pixels; effective 5.07-mega pixels)
CCD sensitivity	2400 lx, f5.6 or greater (equivalent to ISO 260)
A/D conversion	12-bit
Magnification changeover (motorized)	On CCD, 5X, 10X, 20X, 40X (micro image)
Electronic zoom	During full-screen display. 1.4X, 2X, 2.8X, 4X, 16X (micro image)
Exposure control	Program AE with AE Lock
Metering	Average and Peak-hold
Image correction	White balance (method of setting color balance), correction (4 steps), shading correction
Aperture setting	Auto and Manual
Output to external monitors	Analog RGB: SXGA (1280 x 1024, 60 Hz)
Live image display	1.3M progressive mode (7.5 frames/sec. max.), 5M interlaced mode (3.75 frames/sec. max.)
Image size	2560 x 1920 pixels or 1280 x 960 pixels
Image file format	BMP, JPEG compliant (3 compression rates selectable)
Recording media	CompactFlash card (Type I, Type II)
Network	Ethernet (10/100Base-TX), HTTP server, Telnet server, FTP server, FTP client
Interface	USB1.1 host port (USB mouse, USB keyboard)
Power source	AC 100-240V, 50/60 Hz
Power consumption	120VA
Weight	COOLSCOPE unit: approx. 18.5kg
Standard configuration	COOLSCOPE unit, power cord, CompactFlash card (32MB)