

SMZ25

Research Stereo Microscope

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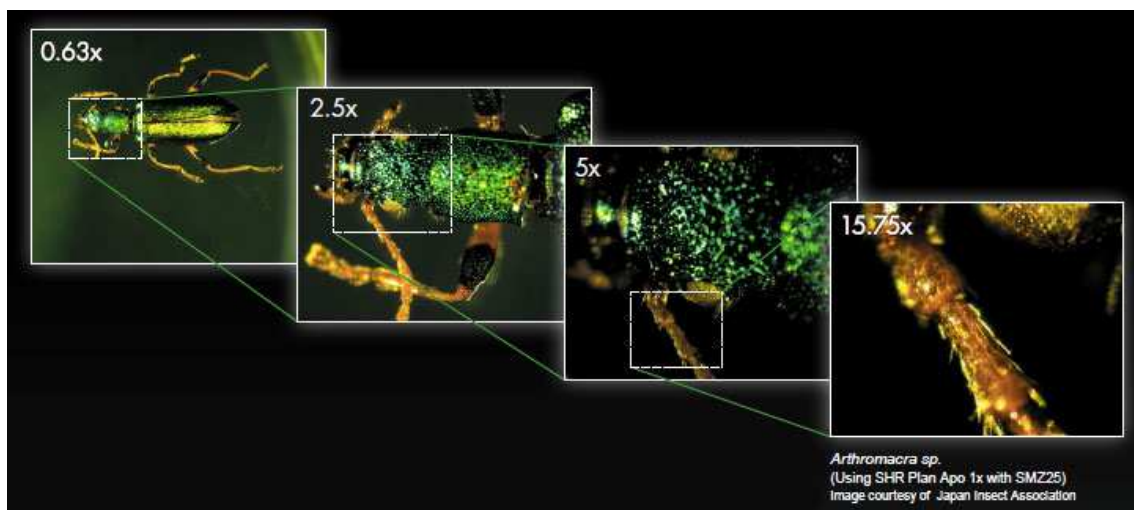
Nikon's SMZ25 stereomicroscope combines macro and micro imaging in one instrument for convenient viewing and manipulation of single cells to whole organisms. Using Nikon's Perfect Zoom System optical technology, the SMZ25 achieves the world's first 25:1 zoom and high NA for superior resolution never before seen with a stereomicroscope. Using these innovative optics and a fly-eye lens, crystal clear fluorescent images with improved S/N ratios are possible, even in low-excitation light applications such as cell division. Additionally, even at low magnifications, the SMZ25 has a 35mm F.O.V, allowing users to capture an entire 35mm dish with uniform brightness.

Features:

All-new "Perfect Zoom System" offers new levels of imaging power and versatility: Dynamically changes the distance between the two optical axis enabling maximisation of light entry into the optical system at every magnification.

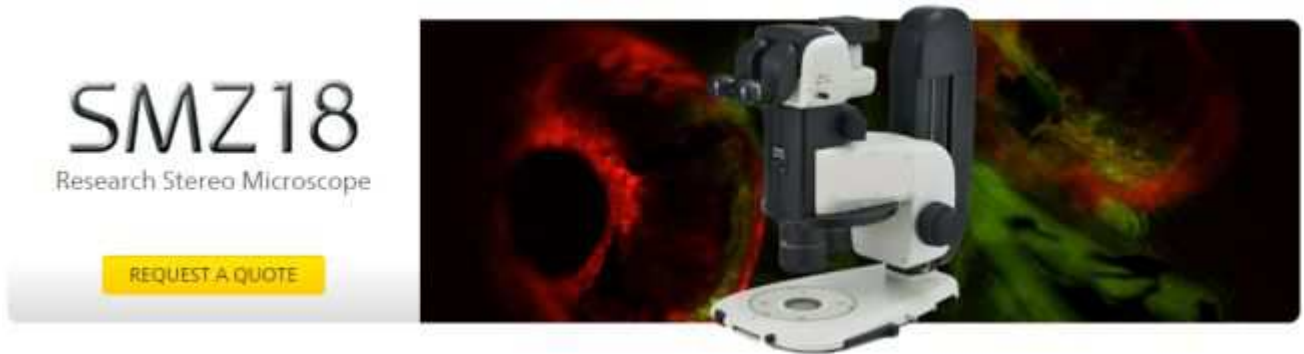
World's largest zoom range enables high resolution macro to micro imaging: Even with a 1x objective, the SMZ25 captures the entire 35mm dish and simultaneously delivers microscopic details

Image below: Arthromacra sp. (Using SHR Plan Apo 1x with SMZ25). Image courtesy of Japan Insect Association



Auto Link Zoom (ALZ): Provides seamless viewing at different magnifications: By adjusting the zoom factor ALZ maintains the same field of view when switching objective lenses

Brighter and higher contrast Epi-fluorescence imaging: Even at low magnification, the SMZ25 captures an entire 35mm dish with equal brightness over the whole field of view



Nikon's SMZ18 stereomicroscope combines macro and micro imaging in one manual instrument for convenient, affordable viewing and manipulation of single cells to whole organisms. A high-performance fly-eye lens provides crystal-clear fluorescent images, with uniform brightness across the entire field of view. Using enhanced epi-fluorescence technology, the SMZ18 is better able to detect excitation light than conventional fluorescent stereomicroscopes, for improved S/N ratios and bright, high-contrast images, even in the low magnification range. Integrated intelligence allows SMZ18 to save imaging parameters along with the captured image as a convenient data file.

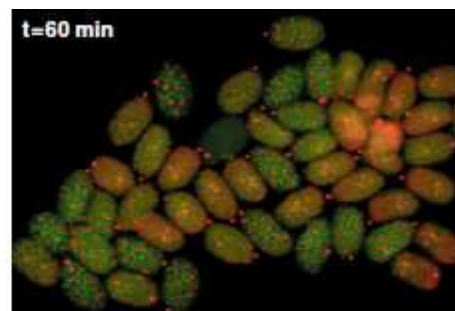
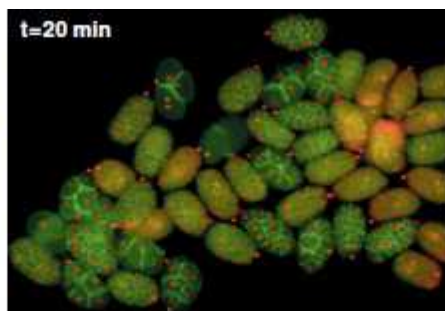
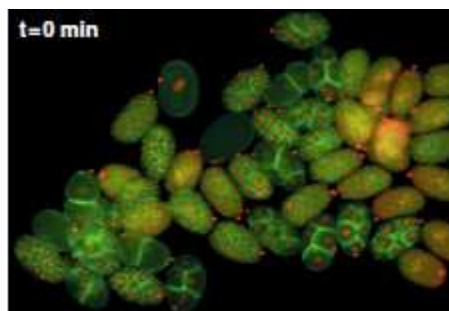
Features:

Brightest Epi-fluorescence imaging: Uses fly-eye technology which uniformly illuminates the entire field of view

Flexible architecture allows full customisation: A wide range of digital imaging capabilities allows you to customise to best suit your research needs

Improved signal-to-noise ratio: Nikon's newly developed optical system offers a drastic improvement in S/N ratio

Advanced digital imaging capabilities



Time-lapse imaging of developing *C. elegans* embryos expressing RFP-histones and GFP-membrane markers allows researchers to screen for cytokinesis mutants prior to selection for downstream applications.

C. elegans embryos (GFP and RFP; each ovoid is $\approx 30\mu\text{m}$ in diameter) (using SHR Plan Apo 2x at zoom magnification of 8x with SMZ25)
Image courtesy of Julie C. Canman, Ph.D., Columbia University