



## Brilliant High-End Stereomicroscopes

# SMZ25 & SMZ18

## Discover the New Evolution

### A Giant Step Forward for Stereo Microscopy



### World's largest zoom range and highest resolution in the SMZ series

- First & only stereo microscope\* to offer a 25:1 zoom range (SMZ25)
- Both eyes can see the maximum numerical apertures (NA) of up to 0.156\*, using the SHR Plan Apo 1x objective and SMZ25 zoom body

\*As of May 2013.

### Automation and digital imaging

- Motorized focus and zoom operation with the SMZ25
- The Nikon Imaging suite of software NIS-Elements enables the use of multiple imaging, processing and analysis modalities including z-stack capture, time-lapse imaging, and the generation of EDF images

### Bright and high contrast fluorescence images

- Fly eye lens ensures uniform brightness over the entire field of view even at the lowest magnifications
- Breakthroughs in the optical design have resulted in significantly improved signal to noise ratio and crystal clear images in fluorescence as well as normal illumination techniques.

### Easy to use

- User-friendly remote control interface for the SMZ25
- Easy-to-operate slim LED DIA base with OCC illumination (oblique lighting method developed by Nikon)
- A wide range of illuminators and accessories to accommodate a variety of observation methods.



Injection needle



Printed circuit board (brightfield)



Printed circuit board (fluorescence)



Glass substrate

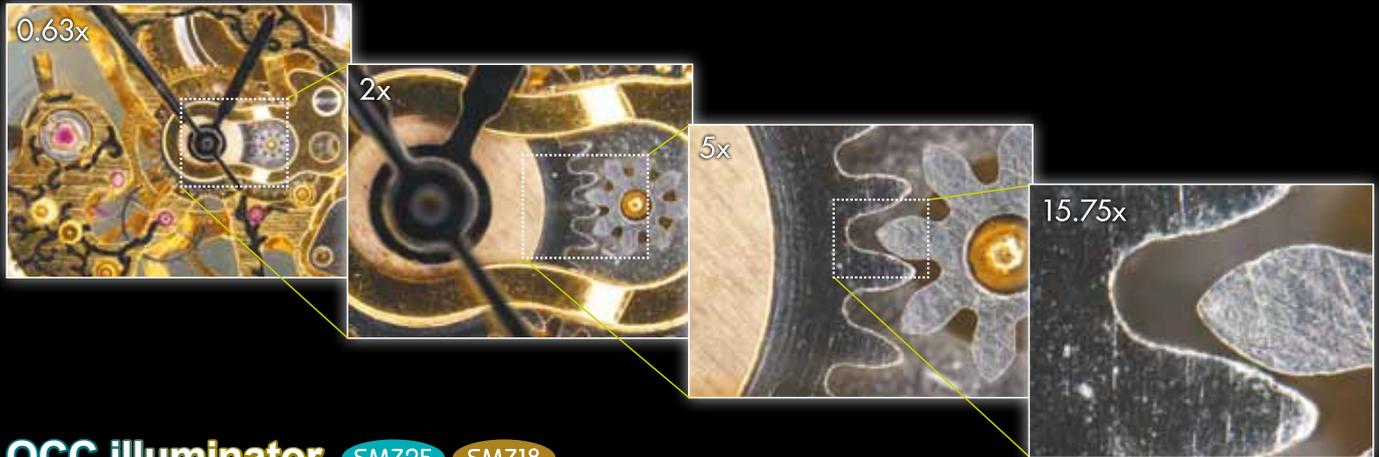
### Main specifications

	SMZ25	SMZ18
Zoom	Motorized zoom	Manual zoom
Zooming observation	BF/DF/FL/Simple polarizing	BF/DF/FL/Simple polarizing
Zoom ratio	25:1	18:1
Magnification range	0.63x ~ 15.75x	0.75x ~ 13.5x
Maximum magnification	315x*1	270x*1
Maximum NA of objective	0.312*2	0.3*2

\*1:Using SHR Plan Apo 2x/C-W 10x \*2:Using SHR Plan Apo 2x

## Dynamic zoom ratio of 25:1 SMZ25

An innovative optical system known as "Perfect Zoom Optics" provides the world's first zoom ratio of 25:1 (zoom range: 0.63x - 15.75x\*; \*as of May 2013). Even with a 1x objective lens, the SMZ25 captures the entire 35mm dish and simultaneously delivers microscopic details.



## OCC illuminator SMZ25 SMZ18

The new LED DIA Base with a built-in OCC illuminator generates minimal heat, consumes little power and has a long life in day to day use. This illuminator can enhance the contrast of uneven surfaces.



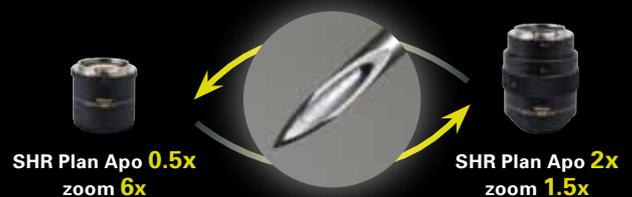
### What is OCC illumination?

The acronym OCC stands for oblique coherent contrast (OCC), which is a form of oblique lighting method developed by Nikon. Compared to conventional diascope illumination that illuminates directly from below, OCC illumination applies coherent light to samples in a diagonal direction, giving contrast to colorless and transparent sample structures.



## Auto Link Zoom (ALZ) supports seamless viewing at different scales SMZ25

ALZ automatically adjusts the zoom factor to maintain the same field of view when switching objective lenses. This function enables seamless switching between whole organism imaging at low magnifications and detailed imaging at high magnifications.



**Maintains FOV at total magnification of 3x**



**WARNING**

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING THE EQUIPMENT.



### NIKON METROLOGY NV

Geldenaaksebaan 329  
B-3001 Leuven, Belgium  
phone: +32 16 74 01 00 fax: +32 16 74 01 03  
Sales.NM@nikon.com

NIKON METROLOGY EUROPE NV  
tel. +32 16 74 01 01  
Sales.Europe.NM@nikon.com

NIKON METROLOGY GMBH  
tel. +49 6023 91733-0  
Sales.Germany.NM@nikon.com

NIKON METROLOGY SARL  
tel. +33 1 60 86 09 76  
Sales.France.NM@nikon.com

NIKON METROLOGY, INC.  
tel. +1 810 2204360  
Sales.US.NM@nikon.com

NIKON METROLOGY UK LTD.  
tel. +44 1332 811349  
Sales.UK.NM@nikon.com

### NIKON CORPORATION

Shin-Yurakucho Bldg., 12-1, Yurakucho 1-chome  
Chiyoda-ku, Tokyo 100-8331 Japan  
phone: +81-3-3216-2384 fax: +81-3-3216-2388  
[www.nikon-instruments.jp/eng/](http://www.nikon-instruments.jp/eng/)

NIKON INSTRUMENTS (SHANGHAI) CO. LTD.  
tel. +86 21 5836 0050  
tel. +86 10 5869 2255 (Beijing office)  
tel. +86 20 3882 0550 (Guangzhou office)

NIKON SINGAPORE PTE. LTD.  
tel. +65 6559 3618

NIKON MALAYSIA SDN. BHD.  
tel. +60 3 7809 3609

NIKON INSTRUMENTS KOREA CO. LTD.  
tel. +82 2 2186 8400