



Stereoscopic zoom microscope **SMZ645**

Ideal solution for all life science stereoscopic examinations!

The stereoscopic zoom microscope SMZ645 offers smooth zooming and sharp three-dimensional sample images magnified up to 300x*. The long working distance allows laboratory researchers to process and manipulate samples with ease, even while performing delicate or complex tasks. The SMZ645 meets numerous observation needs and greatly enhances laboratory output.

*Depending on eyepiece and auxiliary objective lens

Application examples

Botanical research



Limnology



Photo: Dr. Satoshi Ichinose, Lake Biwa Environmental Research Institute

Crystallography



Photo: Dr. Yasuo Hata and Dr. Tomomi Fujii, Institute for Chemical Research, Kyoto University

Insect observation



Food evaluation



Cosmetics research



Hygiene research



Configured with the LED stand

The SMZ645 stereoscopic zoom microscope offers advanced features and higher performance at lower prices. With the new LED stand, as well as Nikon's outstanding optical performance and operation comfort, the SMZ645 can be used for a wide range of biological tasks.



6.3x zoom ratio offers magnifications from 0.8x to 5x

The SMZ645 incorporates a convenient 6.3x zoom ratio, enabling observations of up to 300x* magnification. The zooming knob features click-stops that allow changes in magnification without removing your eye from the eyepiece.

*Depending on eyepiece and auxiliary objective used

A long working distance of 115mm

The SMZ645 provides a long working distance, enabling high samples to be manipulated and processed with ease.



Airtight structure

By making the joints airtight, Nikon has succeeded in preventing contamination from dust, oil, drops of water, or other contaminants.



Anti-mold design

The SMZ645 has an anti-mold design to ensure trouble-free use in environments subject to high heat or humidity.

LED stand with all-in-one design

The newly developed LED stand features built-in diascopic and episcopic illumination. The light intensity of each illumination can be adjusted individually, and both can be used simultaneously. The light source uses very bright LEDs. Since they have a very long life, they avoid the cost and trouble of frequent replacement.



Diascopic illumination



Episcopic illumination
(Tilttable 0°-55°)

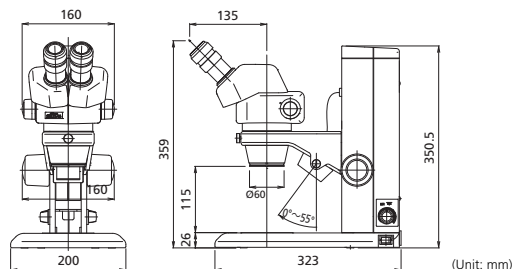
Specifications

Optical system	Twin zooming objective
Total magnification	4-300x (Depending on eyepiece and auxiliary objective used.)
Eyepiece inclination	45°
Interpupillary distance adjustment	52-75mm
Eyepieces (with diopter adjustment)	C-W10x (F.N. 22), C-W15x (F.N. 16), C-W20x (F.N. 12.5), C-W30x (F.N. 7)
Zoom range	0.8-5x
Zoom ratio	6.3 : 1
Auxiliary objectives	G-AL 0.5x (W.D. 211mm)*, 0.7x (W.D. 150mm), 1.5x (W.D. 61mm), 2x (W.D. 43.5mm), G-AL ERG 0.77-1.06x (W.D. 102-48mm)
Working distance	115mm (without any auxiliary objective)
Airtight construction	JIS dew prevention standard Type 1 compliant

*Requires a C-ER extension ring

Dimensions

Configured with the LED stand



Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. March 2009

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



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