



## Stereoscopic zoom microscope **SMZ645**

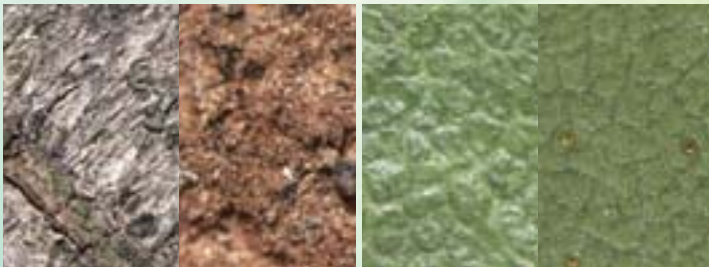
### Ideal solution for all life science stereoscopic examinations!

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°)

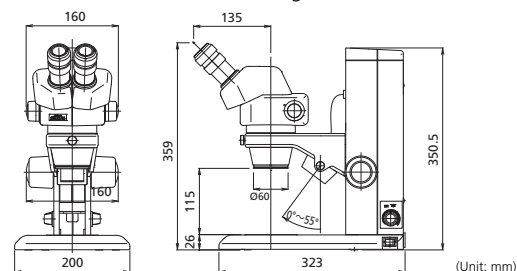
### Specifications

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



(Unit: mm)

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

©2009 NIKON CORPORATION

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

ISO 9001 BUREAU VERITAS Certification  
ISO 14001 BUREAU VERITAS Certification  
U.K.A.S. ENVIRONMENTAL MANAGEMENT  
ISO 9001 Certified NIKON CORPORATION Instruments Company  
ISO 14001 Certified NIKON CORPORATION



### NIKON CORPORATION

6-3, Nishiohi 1-chome, Shinagawa-ku, Tokyo 140-8601, Japan  
(Industrial) phone: +81-3-3773-9026 fax: +81-3-3773-9062  
(Bio Science) phone: +81-3-3773-8973 fax: +81-3-3773-8986  
<http://www.nikon.com/products/instruments/>

### NIKON INSTRUMENTS INC.

1300 Walt Whitman Road, Melville, N.Y. 11747-3064, U.S.A.  
phone: +1-631-547-8500; +1-800-52-NIKON (within the U.S.A. only)  
fax: +1-631-547-0306  
<http://www.nikoninstruments.com/>

### NIKON INSTRUMENTS EUROPE B.V.

Laan van Kronenburg 2, 1183 AS Amstelveen, The Netherlands  
phone: +31-20-44-96-222 fax: +31-20-44-96-298  
<http://www.nikoninstruments.eu/>

### NIKON INSTRUMENTS (SHANGHAI) CO., LTD.

CHINA phone: +86-21-5836-0050 fax: +86-21-5836-0030  
(Beijing branch) phone: +86-10-5869-2255 fax: +86-10-5869-2277  
(Guangzhou branch) phone: +86-20-3882-0552 fax: +86-20-3882-0580

### NIKON SINGAPORE PTE LTD

SINGAPORE phone: +65-6559-3618 fax: +65-6559-3688

### NIKON MALAYSIA SDN. BHD.

MALAYSIA phone: +60-3-7809-3688 fax: +60-3-7809-3633

### NIKON INSTRUMENTS KOREA CO., LTD.

KOREA phone: +82-2-2186-8410 fax: +82-2-555-4415

### NIKON CANADA INC.

CANADA phone: +1-905-602-9676 fax: +1-905-602-9953

### NIKON FRANCE S.A.S.

FRANCE phone: +33-1-4516-45-16 fax: +33-1-4516-45-55

### NIKON GMBH

GERMANY phone: +49-211-941-42-20 fax: +49-211-941-43-22

### NIKON INSTRUMENTS S.p.A.

ITALY phone: +39-055-300-96-01 fax: +39-055-30-09-93

### NIKON AG

SWITZERLAND phone: +41-43-277-28-67 fax: +41-43-277-28-61

### NIKON UK LTD.

UNITED KINGDOM phone: +44-208-247-1717 fax: +44-208-541-4584

### NIKON GMBH AUSTRIA

AUSTRIA phone: +43-1-972-6111-0 fax: +43-1-972-6111-40

### NIKON BELUX

BELGIUM phone: +32-2-705-56-65 fax: +32-2-726-66-45