



# Stereoscopic Microscope SMZ745/745T

Nikon's stereoscopic microscope with 7.5x zoom and 115 mm working distance — a superior model in this category

### 7.5x zoom: extremely high zoom range

The SMZ745/745T boasts a 7.5x zoom that incorporates the Greenough optical system. The zoom range of 0.67x to 5x provides a broad observation range.



### Superior 115 mm working distance

As well as high zoom ratio and magnification, the SMZ745/745T offers a long 115 mm working distance.



### Trinocular optical head is ideal for monitoring and digital imaging (SMZ745T only)

The SMZ745T incorporates an optical path switching lever that enables easy switchover between eyepiece and camera. Nikon Digital Sight series camera can be attached.



Optical path switching lever



With Digital Sight series camera for microscopes

### Three "A" design

The airtight, anti-mold, anti-electrostatic design makes the SMZ745 suitable for use in a range of working environments.

\* The SMZ745T has an anti-mold, anti-electrostatic design.



SMZ745

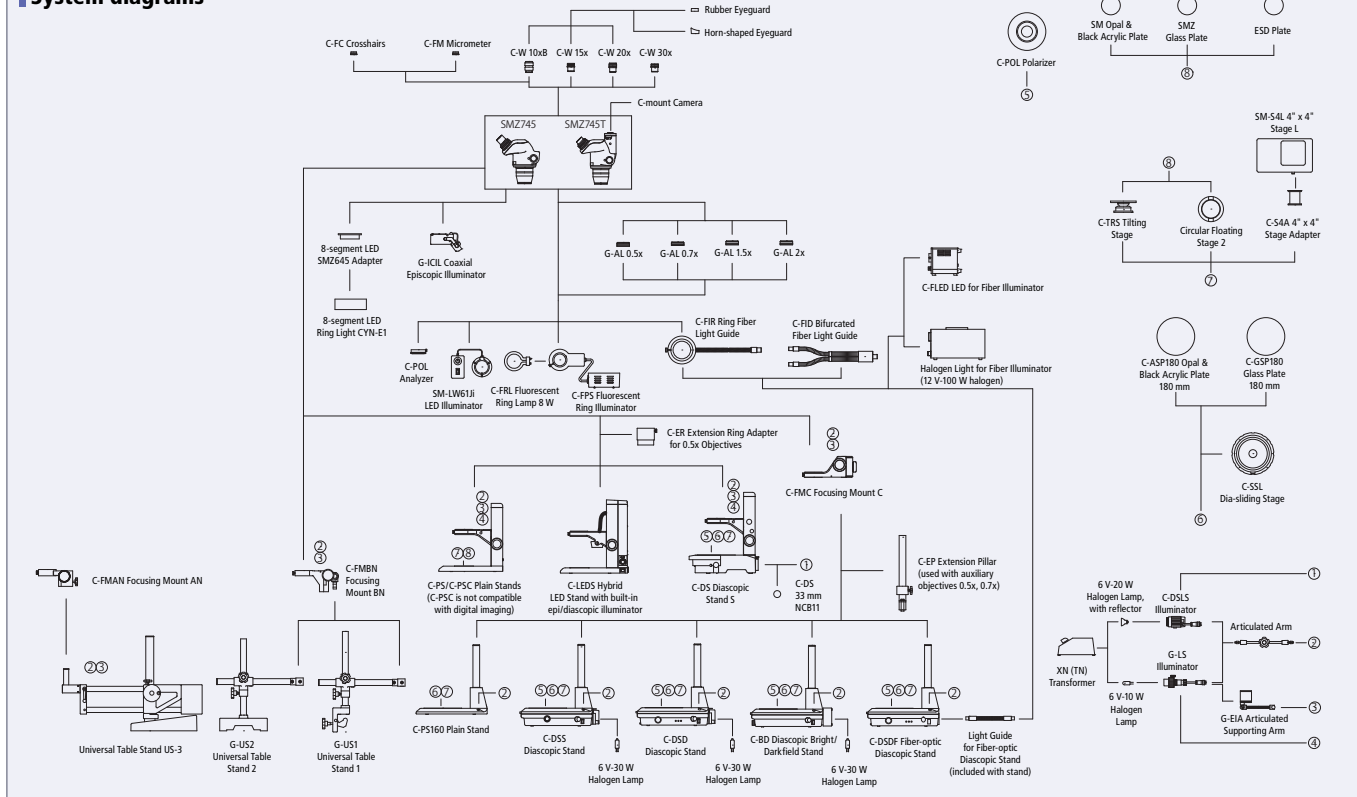
SMZ745T

### Specifications

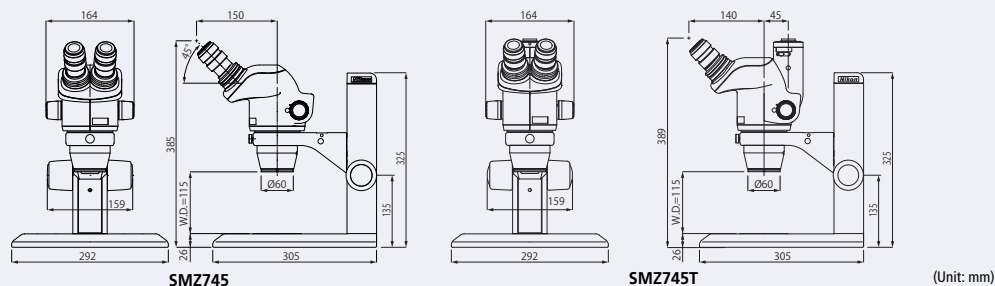
Optical system	Greenough optical system
Total magnification	3.35-300x (depending on eyepiece and auxiliary objective used)
Vertical tube	Built-in C-mount 0.55x magnification lens (F.N. 11), compatible with 2/3 in. or smaller CCD
Eyepiece tube	Fixed type
Eyepiece inclination	45 °
Interpupillary distance adjustment	52-75 mm
Eyepieces (with diopter adjustment)	C-W 10x (F.N. 22), C-W 15x (F.N. 16), C-W 20x (F.N. 12.5), C-W 30x (F.N. 7)
Zoom range	0.67-5x
Zoom ratio	7.5 : 1
Auxiliary objectives	G-AL 0.5x (W.D. 211 mm), G-AL 0.7x (W.D. 150 mm), G-AL 1.5x (W.D. 61 mm), G-AL 2x (W.D. 43.5 mm)
Working distance	115 mm (standard)
Weight	1.55 kg (SMZ745), 1.8 kg (SMZ745T)

F.N.: Field Number

## System diagrams



## Dimensional diagrams



**WARNING**

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

N.B. Export of the products\* in this catalog is controlled under the Japanese Foreign Exchange and Foreign Trade Law. Appropriate export procedure shall be required in case of export from Japan.

\*Products: Hardware and its technical information (including software)

\*Monitor images are simulated.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. January 2011 ©2011 NIKON CORPORATION



### NIKON CORPORATION

Shin-Yurakucho Bldg., 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo 100-8331, Japan  
**Bio Science** phone: +81-3-3216-2375 fax: +81-3-3216-2385  
**Industrial Instruments** phone: +81-3-3216-2384 fax: +81-3-3216-2388  
<http://www.nikon.com/instruments/>



ISO 9001 Certified  
for NIKON CORPORATION  
Instruments Company



ISO 14001 Certified  
for NIKON CORPORATION

### 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 METROLOGY, INC.

12701 Grand River Avenue, Brighton, MI 48116 U.S.A.  
 phone: +1-810-220-4360 fax: +1-810-220-4300

E-mail: [sales\\_us@nikonmetrology.com](mailto:sales_us@nikonmetrology.com)

<http://us.nikonmetrology.com/>

<http://www.nikoninstruments.com/>

### NIKON INSTRUMENTS EUROPE B.V.

Laan van Kronenburg 2, 1183 AS Amstelveen, The Netherlands  
 phone: +31-20-44-96-300 fax: +31-20-44-96-298

<http://www.nikoninstruments.eu/>

### NIKON METROLOGY EUROPE NV

Geldenaaksebaan 329, 3001 Leuven, Belgium  
 phone: +32-16-74-01-00 fax: +32-16-74-01-03

E-mail: [sales\\_europe@nikonmetrology.com](mailto:sales_europe@nikonmetrology.com)

<http://www.nikonmetrology.com/>

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

CHINA phone: +86-21-6841-2050 fax: +86-21-6841-2060  
 (Beijing branch) phone: +86-10-5831-2028 fax: +86-10-5831-2026  
 (Guangzhou branch) phone: +86-20-3882-0550 fax: +86-20-3882-0580

### NIKON SINGAPORE PTE LTD

SINGAPORE phone: +65-6559-3618 fax: +65-6559-3668

### NIKON MALAYSIA SDN BHD

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

### NIKON INSTRUMENTS KOREA CO., LTD.

KOREA phone: +82-2-2186-8400 fax: +82-2-555-4415

### NIKON INDIA PRIVATE LIMITED

INDIA phone: +91-124-4688500 fax: +91-124-4688527

### NIKON CANADA INC.

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

### 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 GMBH AUSTRIA

AUSTRIA phone: +43-1-972-6111-00 fax: +43-1-972-6111-40

### NIKON BELUX

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

### NIKON UK LTD.

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

### NIKON METROLOGY UK LTD.

UNITED KINGDOM phone: +44-1332-811-349 fax: +44-1332-639-881

E-mail: [sales\\_uk@nikonmetrology.com](mailto:sales_uk@nikonmetrology.com)

### NIKON FRANCE S.A.S.

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

### NIKON METROLOGY SARL

FRANCE phone: +33-1-60-86-09-76 fax: +33-1-60-86-57-35

E-mail: [sales\\_france@nikonmetrology.com](mailto:sales_france@nikonmetrology.com)

### NIKON GMBH

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

### NIKON METROLOGY GMBH

GERMANY phone: +49-6023-91733-0 fax: +49-6023-91733-19

E-mail: [sales\\_germany@nikonmetrology.com](mailto:sales_germany@nikonmetrology.com)

Официальный дистрибьютор Nikon  
в России и странах СНГ



Россия, 127055, г. Москва, ул. Новолесная, д. 2  
 тел.: +7 (495) 223-40-00 факс: +7 (495) 223-40-01  
<http://www.tokyo-boeki.ru> email: [systems@tokyo-boeki.ru](mailto:systems@tokyo-boeki.ru)