



Stereo Microscopes  
The World Leading Stereo Microscope Range

# Stereo Microscopes



# The Next Revolution in Microscopy

## A Giant Step Forward in Stereo Microscopy

Nikon offers a broad range of stereo microscopes and accessories, including a research stereo microscope system with the world's highest zoom ratio, superb resolution and bright fluorescence imaging. Also features other versatile parallel-optics type models suitable for various applications and Greenough-type models that are user-friendly and affordable.

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	SMZ25	SMZ18	SMZ1270/ 1270i	SMZ800N	SMZ745/SMZ745T	SMZ445/ SMZ460	SMZ-2	
Optical system	Parallel-optics type				Greenough type			Optical system
Zoom ratio	25:1	18:1	12.7:1	8:1	7.5:1	4.4:1 / 4.3:1	5:1	Zoom ratio
Zooming range	0.63-15.75x	0.75-13.5x	0.63-8x	1-8x	0.67-5x	0.8-3.5x / 0.7-3x	0.8-4x	Zooming range
Total magnification*1 (with standard set*2)	3.15-945x (6.3-157.5X)	3.75-810x (7.5-135X)	3.15-480x (6.3-80X)	5-480x (10-80X)	3.35-300x (6.7-50X)	4-70x (8-35X)/ 3.5-60x (7-30X)	4.8-120x (8-40X)	Total magnification*1 (with standard set*2)
Working distance*3	60mm	60mm	70mm	78mm	115mm	100mm	77.5mm	Working distance*3
Image capture	○	○	○	○	○ (SMZ745T)	—	—	Image capture
System expandability	○	○	○	○	—	—	—	System expandability
Embedded use	—	—	○	○	○	○	○	Embedded use

\*1 Depends on the combination of eyepiece and objective lens \*2 With a 10x eyepiece and a 1x objective  
\*3 With a 1x magnification without auxiliary objective



Research Stereo Microscope

# SMZ25/SMZ18

## Evolutionary stereo microscope

Nikon has developed a stereo microscope that features a large zoom ratio of 25:1, high resolution and exceptional fluorescence transmission capability. These models meet the increasing needs for imaging systems that span spatial scales from single cells to whole organisms.

### World's widest zoom range and highest resolution for a stereo microscope

- First stereo microscope to offer a 25:1 zoom range (SMZ25)
- Both eye paths boast numerical apertures (NA) of up to 0.156, using the SHR Plan Apo 1x objective and SMZ25

### Automation and digital imaging

- Motorized focus and zoom operation (SMZ25)
- Imaging Software NIS-Elements enables the use of multiple imaging, processing and analysis modalities, including z-stack capture, time-lapse imaging and EDF image generation



**SMZ25** Motorized zoom model with the highest zoom ratio and resolution in the SMZ series

### Bright, high-contrast fluorescent images

- Fly-eye lens ensures uniform brightness over the entire field of view even at the lowest magnifications
- Breakthroughs in optical design mean significantly improved signal to noise ratio and crystal clear fluorescent images

### Easy to use

- User-friendly remote control (SMZ25)
- Easy-to-operate slim LED DIA base with OCC illumination
- Wide range of illuminators and accessories that accommodate a variety of observation methods



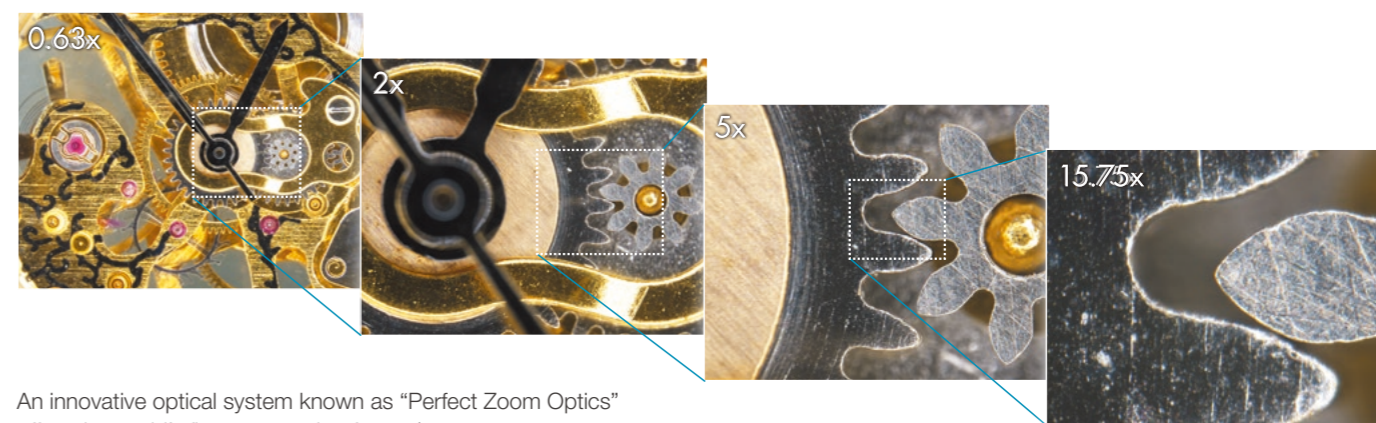
**SMZ18** Manual zoom model providing advanced optical performance and incredibly bright fluorescence at an attractive price

Model	SMZ25	SMZ18
Type	Motorized zoom	Manual zoom
Observation	Brightfield/Darkfield/Fluorescence/Simple polarizing	
Zoom ratio	25:1	18:1
Magnification range	0.63x - 15.75x	0.75x - 13.5x (with 0.75/1/2/3/4/5/6/8/10/12/13.5x click stops)
Maximum magnification	315x <sup>*1</sup>	270x <sup>*1</sup>
Maximum FOV	ø70 mm <sup>*2</sup>	ø59 mm <sup>*2</sup>
Maximum NA of	0.312 <sup>*3</sup>	0.3 <sup>*3</sup>

\*1: Using SHR Plan Apo 2x/ C-W10xB \*2: Using SHR Plan Apo 0.5x/ C-W10xB \*3: Using SHR Plan Apo 2x

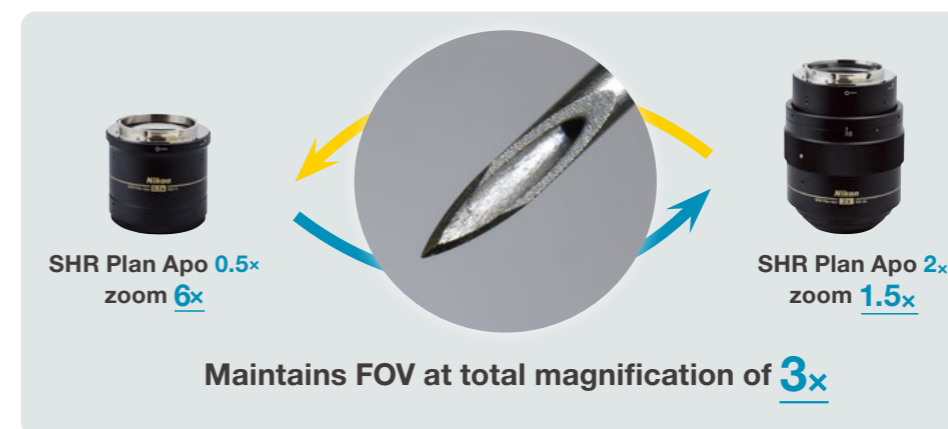
## Remarkable resolution and the world's widest zoom range

Dynamic zoom ratio of 25:1 **SMZ25**



An innovative optical system known as "Perfect Zoom Optics" offers the world's first zoom ratio of 25:1 (zoom range: 0.63x - 15.75x). The SMZ25 can seamlessly capture the entire dish while simultaneously delivering microscopic details.

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



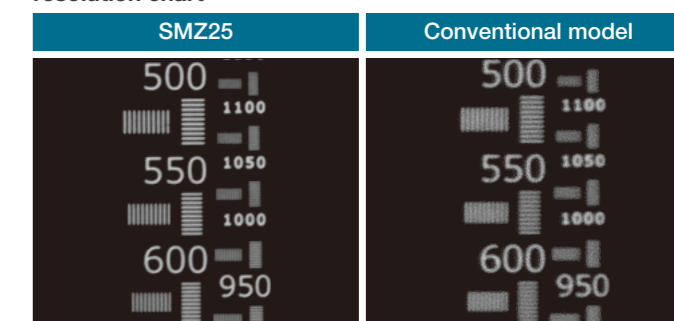
ALZ automatically adjusts the zoom factor to maintain the same field of view when switching objective lenses. This function enables seamless switching between whole organism imaging at low magnifications and detailed imaging at high magnifications.

Superior resolution never before seen on a stereo microscope **SMZ25** **SMZ18**

Newly developed SHR (Super High Resolution) Plan Apo series objectives offers a resolution of 1100LP/mm (observed value, using SHR Plan Apo 2x at maximum zoom). The 0.5x, 1x, or 1.6x lower magnification objectives deliver a bright field of view and brilliant images with true-to-life colors. All the SHR lenses are parfocal with each other. When used together with the accessory nosepiece, refocusing after a lens change will not be needed.



Comparison of resolution and color aberration by resolution chart



# Parallel-optics type

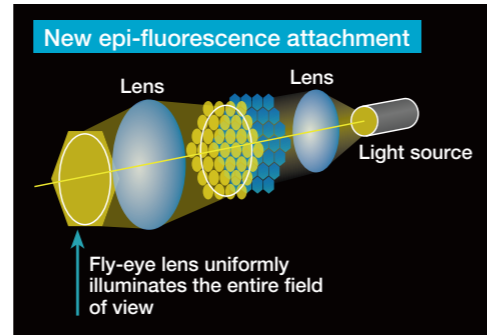
## Bright, high-contrast fluorescent images SMZ25 SMZ18

### Enhanced brightness and uniform illumination in a low magnification range

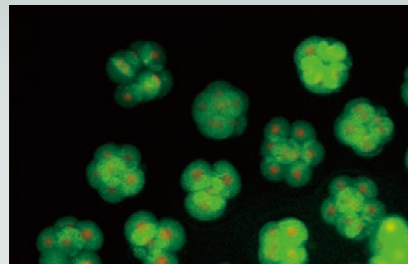
The SMZ25 series is the first stereo microscope in the world to use a fly-eye lens on an epi-fluorescence attachment. This ensures bright, uniform illumination even at low magnifications across a large field of view.

### Improved S/N ratio and crystal clear fluorescent images thanks to an improved optical system

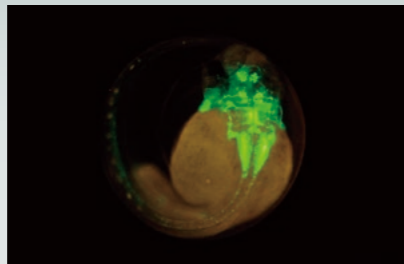
Nikon has succeeded in improving the signal and reducing noise in fluorescent images by using a short-wavelength, high-transmission Fluor lens. This enables observations of cell division and samples with weak fluorescence, both of which are difficult to observe and record images using conventional stereo microscopes.



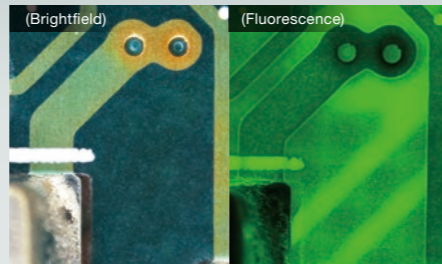
#### Sample images



**Fertilized mouse egg**  
Image courtesy of Kazuo Yamagata, Ph.D., Center for Genetic Analysis of Biological Responses, Research Institute for Microbial Diseases, Osaka University



**2 days old Transgenic Zebrafish embryo, Tg (isl1-GFP)**  
(using SHR Plan Apo 1x at zoom magnification of 6x with SMZ25)  
Image courtesy of Hisaya Kakinuma, Ph.D., Laboratory for Developmental Gene Regulation, Developmental Brain Science Group, RIKEN Brain Science Institute



Board

## Automation and digital imaging SMZ25 SMZ18

### A wide range of digital imaging capabilities with the Digital Sight series and NIS-Elements imaging software

Easily obtain the information required, such as Z drive position, zoom factor, objective lens, filter cube and LED DIA brightness, by using the Digital Sight series and NIS-Elements together with the microscope.



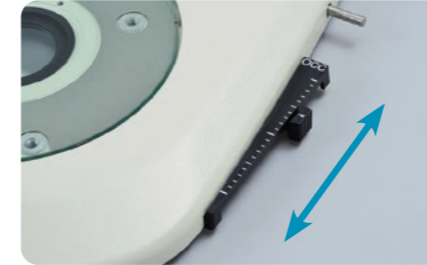
Detected observation condition/available control	○ : Detection and control of observation condition possible ○ : Detection of observation condition possible	
	SMZ25 + NIS-Elements	SMZ18 + NIS-Elements
	<ul style="list-style-type: none"> <li>Motorized focus unit</li> <li>Motorized epi-fluorescence set (control box A)</li> </ul>	<ul style="list-style-type: none"> <li>Manual focus unit</li> <li>Manual epi-fluorescence set (relay box and control box B)</li> </ul>
Zoom magnification	○	○
Focusing	○	—
Objective (with nosepiece)	○	○
Diascopic LED illumination stand (ON/OFF, light intensity control)	○	○
Fluorescence illuminator (light intensity control)	○	○
Filter cube	○	○

For other combinations, please confirm with Nikon.  
Note: With NIS-Elements L and F, functions above are not available. Use NIS-Elements D/Br/Ar.

## Improved observation efficiency

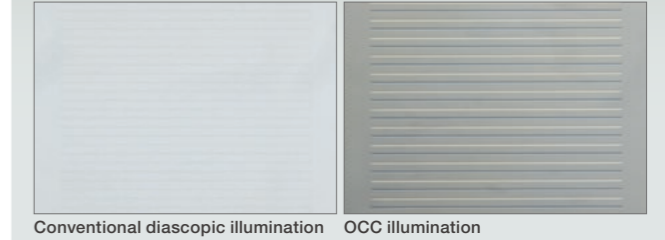
### Easy-to-use OCC illumination SMZ25 SMZ18

The LED DIA Base with built-in OCC illuminator generates minimal heat, consumes little power and has a long life. The illuminator also enhances the contrast of uneven surfaces, such as those of film.



The OCC illuminator can be controlled using a slide lever. Thanks to scales on the slide lever, the user can save and reproduce desired illumination levels. In addition, an OCC plate can be inserted into the illumination unit from the front and rear sides, so images with different shadow direction can be observed.

#### Comparison images (film)



Conventional diascopic illumination OCC illumination

#### What is OCC illumination?

OCC stands for oblique coherent contrast, a form of oblique lighting method developed by Nikon. Compared to conventional diascopic illumination that illuminates directly from below, OCC illumination applies coherent light to samples in a diagonal direction, adding contrast to colorless and transparent sample structures.

### User-friendly remote control SMZ25

The remote control provides easy access to zoom and focus controls and is designed for both right- and left-hand use. The remote control contains an LCD monitor with an adjustable backlight that provides at-a-glance information about zoom factor, objective lens, filter cube and LED DIA brightness.



The brightness of the LCD monitor and LED indicators is adjustable

LCD monitor with adjustable backlight provides observation information.



### On-axis imaging for digital images SMZ25 SMZ18

Easily switch between stereo position (stereoscopic view) and mono position (on-axis view) when using the P2-RNI2 Intelligent Nosepiece by simply moving the objective lens.

#### Comparison of on-axis image and stereoscopic image



On-axis image Stereoscopic image



# Parallel-optics type

## Stereo Microscope

# SMZ1270/1270i SMZ800N



## Incredible sharpness throughout a wide magnification range

These versatile stereo microscopes provide both excellent optical performance, such as high-magnification, high-zoom ratio and high-resolution images, and advanced operability. The expandability of parallel optics makes these models suitable for a wide range of applications.

### Highest-in-class zoom ratio

- Highest-in-class zoom ratio of 12.7:1 (0.63 – 8x) with SMZ1270/1270i
- New WF series objectives optimized for wide viewfield observation at low magnification

### High-quality images

- High-level chromatic aberration correction provides sharp images throughout the viewfield.

### Easy to get results

- Automatically detects magnification data in combination with the digital camera control unit (SMZ1270i only)
- Nosepiece offers both widened magnification range and on-axis imaging
- Eyepiece tubes with various inclination angles and slim-type stands minimize user fatigue during observation

### Expandable with a wide range of accessories

- A wide range of accessories are available, including eyepiece tubes and stands that are equal to superior specification stereo microscope models



SMZ1270

Versatile stereo microscope with the highest-in-class zoom ratio



SMZ1270i

The same as the SMZ1270 but equipped with intelligent functions found in superior models (SMZ1270i with a trinocular tilting tube and nosepiece)



SMZ800N

Affordable model with improved operability and basic performance

## Highest-in-class zoom ratio

### Wide zoom range

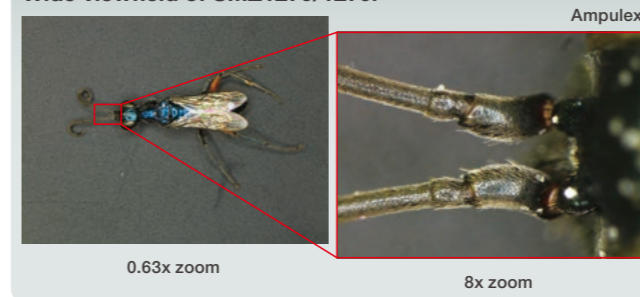
The SMZ1270/1270i offers the highest-in-class zoom ratio of 12.7x (0.63 – 8x). It offers both low-magnification wide viewfield observation of the whole of a 35 mm petri dish\* during screening and high-magnification observation of minute cell structures



SMZ1270/1270i enables observation of the whole of a 35 mm petri dish.

\* with 1x objective at the lowest magnification.

### Wide viewfield of SMZ1270/1270i



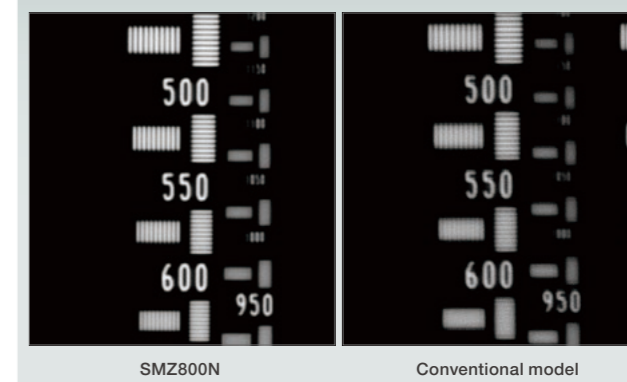
Ampulex

0.63x zoom

8x zoom

The SMZ800N comes with a 1 – 8x zoom range, with higher magnification than conventional models and enables high-resolution observation of 640LP/mm (using ED Plan Apo 2x/WF at maximum zoom).

### Improved resolution of SMZ800N



SMZ800N

Conventional model

### Wide field objectives

The WF series objectives offer uniformly bright images even at low magnification and wide viewfield observation with SMZ1270/1270i. In addition, a 0.75x objective is now available, expanding the lineup of low magnification objectives.



## High-quality images

Apochromat optics have been adopted for the lenses in the SMZ1270/1270i zoom body and semi-apochromat optics in the SMZ800N to achieve high-level chromatic aberration correction. They provide sharp images without blur or color fringe.



Apochromat optics (captured with SMZ1270+Plan Apo 1x/WF)

Conventional optics



## Easy to get results

### Intelligent function for status readout SMZ1270i

In combination with the imaging software NIS-Elements, the SMZ1270i can detect zoom magnification data. In addition, with the Intelligent Nosepiece P-RNI2 attached, data related to the objective in use is also detected. Calibration data is automatically altered, following changes of magnification, to display the appropriate scale and measurement results on the images.

Microscope Camera DS-Fi3/Digital Sight 10

SMZ1270i + Intelligent Nosepiece

Imaging Software NIS-Elements

- Detection of zoom magnification and objective information
- Calibration auto change

Correct scale is always indicated

Note: With NIS-Elements L and F, functions above are not available. Use NIS-Elements D/Br/Ar.

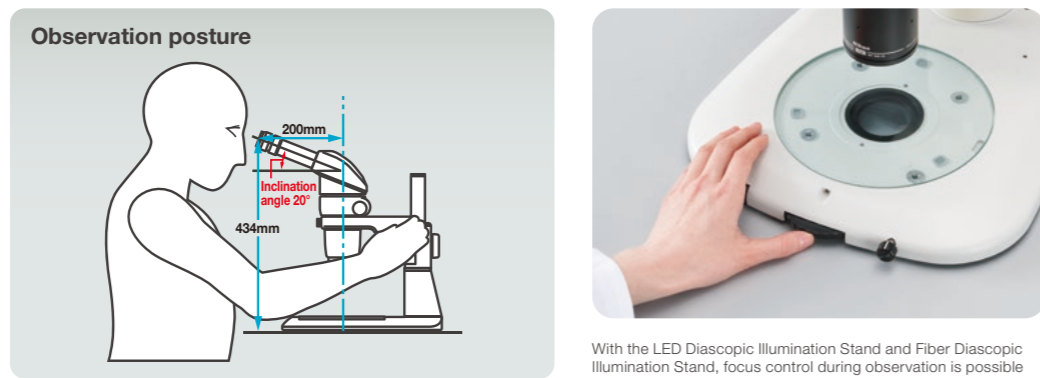
### On-axis observation with the nosepiece

The double nosepiece offers easy on-axis imaging, enabling observation of the bottom of holes, accurate simple measurement and extended depth of focus (EDF) imaging without distortion.



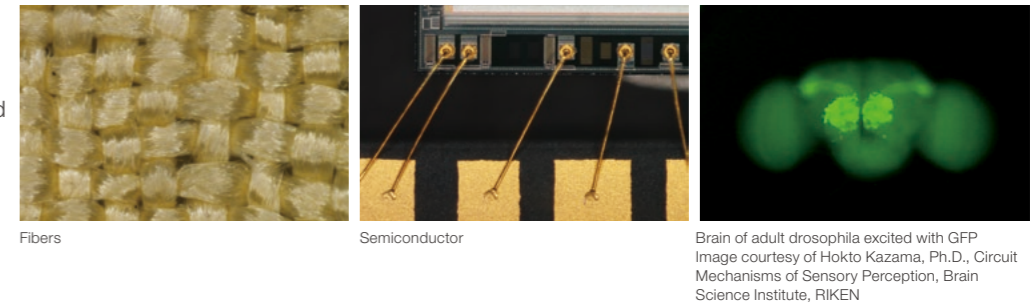
### Ergonomic design

Eyepiece tubes with a range of inclination angles are available for comfortable observation. They offer the optimum eyelevel to suit each user. In addition, slim-type plain stands and the LED Diascopic Illumination Stand easily facilitate the presentation and removal of specimens.



## Expandable with a wide range of accessories

In addition to conventional accessories, the level of accessories used with superior models is also available for the SMZ1270/1270i and SMZ800N. These include trinocular tubes and slim-type LED diascopic illumination stands. These allow various microscope configurations to suit numerous routine inspections and a range of research and development applications.



OCC illumination

Diascopic brightfield illumination

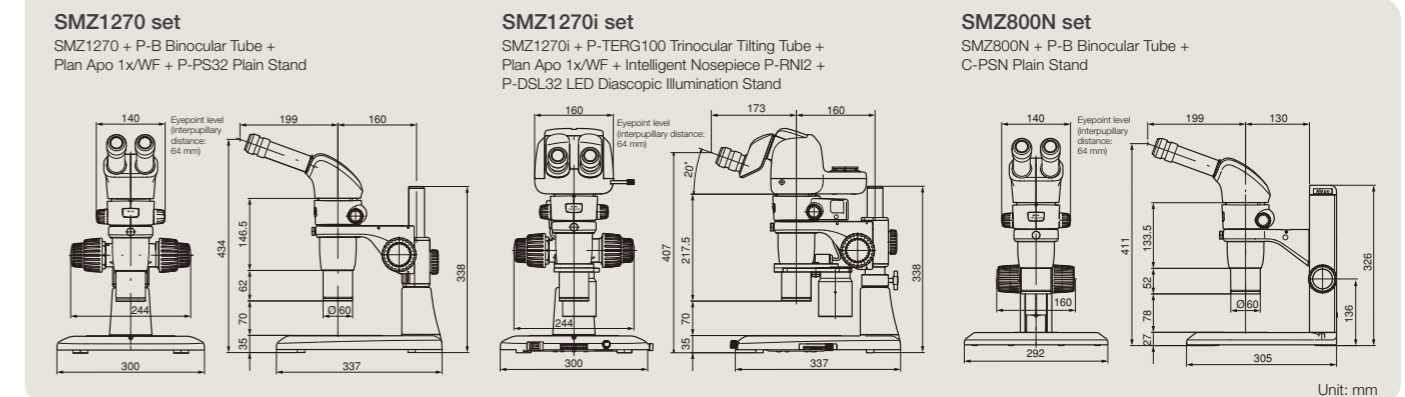
OCC illumination boosts the contrast of transparent sample structures.  
Hemichrotus pulcherrimus in two-cell stage

With the LED Diascopic Illumination Stand and Fiber Diascopic Illumination Stand, image contrast under OCC illumination can be easily adjusted.

	SMZ1270	SMZ1270i	SMZ800N
Optical system	Parallel-optics type (zooming type)		
Zoom ratio	12.7 : 1		8 : 1
Zoom range	0.63 – 8x (0.63/1/2/3/4/6/8x stops)		1 – 8x (1/2/3/4/6/8x stops)
Total magnification	3.15 – 480x (depending on eyepiece and objectives) (with coaxial episcopic illuminator: 15 – 540x)		5 – 480x (depending on eyepiece and objectives) (coaxial episcopic illuminator: 22.5 – 540x)
Tubes	Eyepiece inclination: 20° (P-B Binocular Tube) / 0°-30° (P-TERG100 Trinocular Tilting Tube, P-TERG50 Trinocular Tilting Tube), P-T100 Trinocular Tube		
Eyepieces	C-W10xB (F.N. 22), C-W15x (F.N. 16), C-W20x (F.N. 12.5), C-W30x (F.N. 7)		
Objectives	Plan Apo 0.5x/WF, Plan Apo 0.75x/WF, Plan Apo 1x/WF, ED Plan 1.5x/WF, ED Plan 2x/WF		Plan Apo 0.5x/WF, Plan Apo 0.75x/WF, Plan Apo 1x/WF, ED Plan 1.5x/WF, ED Plan 2x/WF, Plan 1x, Achrom 0.5x
Working distance	70 mm (with Plan Apo 1x/WF)		78mm (with Plan 1x)
Weight (approx.)	9.8 kg (with P-B Binocular Tube + P-DSL32 LED Diascopic Illumination Stand)	11.9 kg (with P-TERG100 Trinocular Tilting Tube + P-DSL32 LED Diascopic Illumination Stand)	6.8 kg (with P-B Binocular Tube + C-PSN Plain Stand)

Please refer to the system diagram (P. 26-27) for accessory combinations.

### Dimensions





## Greenough Type Stereo Microscope

# SMZ745/745T

Superior 7.5x zoom and 115 mm working distance  
Trinocular optical head type is also available

- 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.
- As well as high zoom ratio and magnification, the SMZ745/745T offers an unrivaled 115 mm working distance.
- The SMZ745T incorporates an optical path switching lever that enables easy switchover between eyepiece and camera. A microscope camera can be attached.



### Three "A" design

#### • Air-tight SMZ745

By making joints air-tight, contamination from dust, oil, water and other contaminants is prevented.

#### • Air-tight construction: JIS Degrees of protection provided by enclosures IPX1

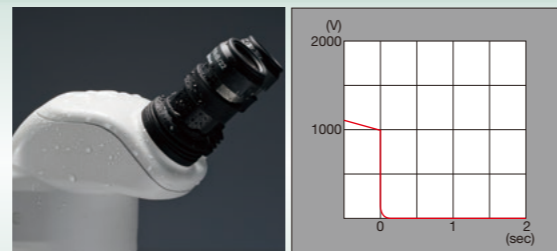
#### • Anti-fungal design SMZ745 SMZ745T

Anti-fungal design developed exclusively by Nikon ensures peace of mind when the microscope is used in environments subject to high heat or humidity.

#### • Anti-electrostatic SMZ745 SMZ745T

Static electricity built up within the microscope is discharged almost instantly, ensuring higher yields.

Anti-static function: 1000–10V, discharge within 0.2 sec.

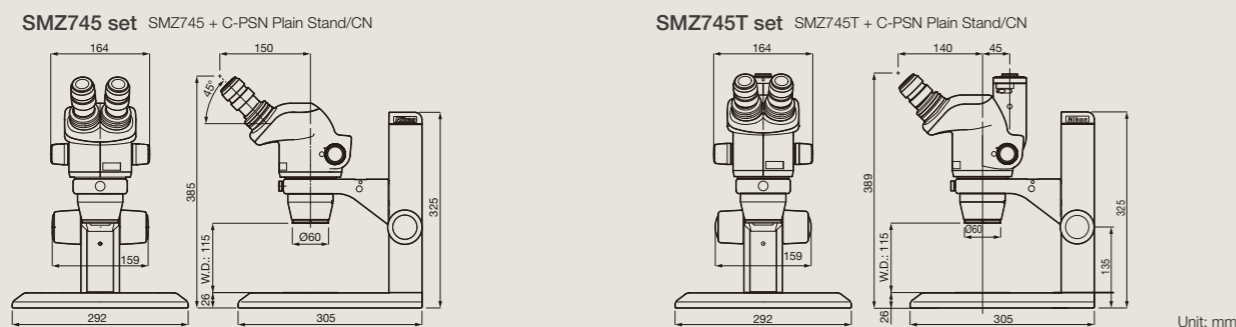


### Specifications

	SMZ745	SMZ745T
Optical system	Greenough type (zooming type)	Greenough type (zooming type), trinocular tube
Zoom ratio	7.5 : 1	
Zoom range	0.67-5x (with 0.67/1/2/3/4/5x stops)	
Total magnification	3.35-300x (depending on eyepiece and auxiliary objective used)	
Straight tube	—	Built-in C-mount 0.55x magnification lens (F.N. 11), compatible with 2/3 in. or smaller CCD
Tubes	Fixed type Eyepiece inclination: 45° Interpupillary distance adjustment: 52-75 mm	
Eyepieces (with diopter adjustment)	C-W 10xB (F.N. 22), C-W 15x (F.N. 16), C-W 20x (F.N. 12.5), C-W 30x (F.N. 7)	
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)	
Airtight construction	JIS Degrees of protection provided by enclosures IPX1	—
Weight (approx.)	1.6 kg (body)	1.8 kg (body)

F.N.: Field Number

### Dimensions



Unit: mm

## Greenough Type Stereo Microscope

# SMZ445/460

Designed for excellent cost performance

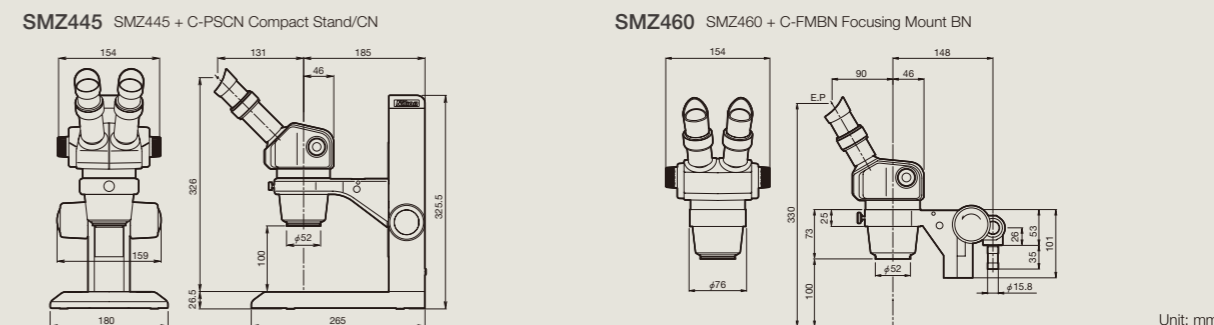
- The SMZ445 has a 45° eyepiece tube inclination, and the SMZ460 has a 60° eyepiece tube inclination, which is ideal for embedded use.
- Compact design with ease-of-use and high optical performance.
- ESD protection guards against electrostatic damage to samples.



### Specifications

	SMZ445	SMZ460
Optical system	Greenough type (zooming type)	
Zooming ratio	4.4 : 1	4.3 : 1
Zooming range	0.8–3.5x	0.7–3x
Total magnification	4-70x	3.5-60x
Tube	Eyepiece inclination: 45° Interpupillary distance adjustment: 54–75 mm Eyepiece diopter adjustable for both eyes	Eyepiece inclination: 60° Interpupillary distance adjustment: 54–75 mm Eyepiece diopter adjustable for both eyes
Eyepieces	SM 10xB (F.N. 21), SM 15xB (F.N. 14), SM 20xB (F.N. 12)	
Auxiliary objectives (option)	AL5 (0.5x), AL7 (0.7x)	
Working distance	100 mm (standard)	
Weight (approx.)	1.0 kg (body)	1.1 kg (body)

### Dimensions



Unit: mm

## Greenough Type Stereo Microscope

# SMZ-2

High-resolution optics ideal for inspection, assembly, and measurement

- Compact design with horizontally positioned zooming ring (rotation: 90°)
- Eyepiece inclination of 45° for comfortable observation

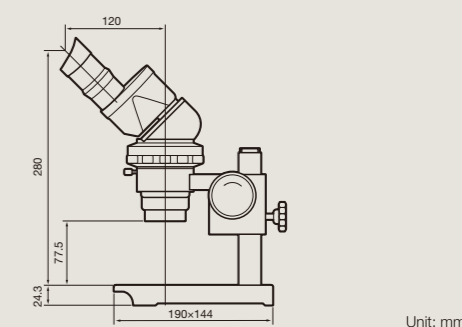


SMZ-2 (Clemmer is optional)

### Specifications

	SMZ-2
Optical system	Greenough type (zooming type)
Zooming ratio	5 : 1
Zooming range	0.8–4x
Total magnification	4.8–120x (Depending on eyepiece and auxiliary objective used.)
Tube	Eyepiece inclination: 45° Interpupillary distance adjustment: 56–75 mm
Eyepieces (with diopter adjustment)	SM E10xA (F.N. 23, standard), SM 15xB (F.N. 14), SM 20xB (F.N. 12), C-W30x (F.N. 7)
Auxiliary objectives	AL5 (0.6x), AL7 (0.8x)
Working distance	77.5 mm (with standard configuration)
Weight (approx.)	1.6 kg (body), 1.9 kg (stand)

### Dimensions



Unit: mm

## Wide range of dedicated accessories for SMZ25/SMZ18 for all types of observation

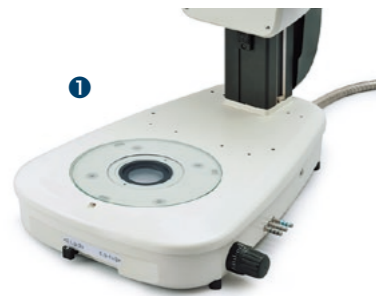
### Base Unit, Focus Unit, Stand/Focus Mount

#### Base Unit

Nikon has improved ease of use by moving the controls to the front of the base, including the brightness adjustment dial and the on/off switch.

#### Fiber DIA base

The Fiber DIA base features condenser lenses that can be switched between low and high magnifications. Furthermore, the OCC illumination system allows high-contrast illumination.



1 P2-DBF Fiber Diascopic Illumination Base

#### Slim Bases

The slimmer LED DIA Base and Plain Base help increase efficiency of sample manipulation by bringing the level of the sample closer to the table.



2

2 P2-DBL LED Diascopic Illumination Base

3

3 P2-PB Plain Base

#### Focus Unit

The focus unit is combined with the base unit. Choose from either a manual or motorized focus unit.



1 P2-MFU Motorized Focus Unit

2 P2-FU Focus Unit

#### Stand/Focus Mount SMZ18

SMZ18 can be mounted on various compact stands using a focus mount.



1

1 P2-FMDN Focus Mount  
2 P-PS32 Plain Stand

2

3

3 P-DSL32 LED Diascopic Illumination Stand

4

4 P-DSF32 Fiber Diascopic Illumination Stand

### SHR Plan Apo Objective Series

The SHR Plan Apo series features higher NA, wider field of view and superior flatness and color aberration correction. These objective lenses can be seamlessly switched because all magnifications have the same parfocal distance. The bayonet mount design allows lenses to be safely and easily removed.



1 P2-SHR Plan Apo 0.5x  
3 P2-SHR Plan Apo 1.6x

2 P2-SHR Plan Apo 1x  
4 P2-SHR Plan Apo 2x

		SHR Plan Apo 0.5x	SHR Plan Apo 1x	SHR Plan Apo 1.6x	SHR Plan Apo 2x
Maximum NA	SMZ25	0.078	0.156	0.25	0.312
	SMZ18	0.075	0.15	0.24	0.3
Working distance		71 mm	60 mm	30 mm	20 mm
Correction ring		—	—	—	3 mm water depth
Wavelength		380-700 nm			

### Tubes

Choose from two types of tilting trinocular tube and one type of low eyelevel trinocular tube. All tubes have a camera port for seamless integration with the Digital Sight series.



1 P2-TERG100 Trinocular Tilting Tube (eyepiece: port 100:0 / 0:100)

2 P2-TERG50 Trinocular Tilting Tube (eyepiece: port 100:0/50:50)

3 P2-TL100 Trinocular Tube L (eyepiece: port 100:0 / 0:100)

### Nosepiece/Focus Mount Adapter

Both single and double nosepieces are available.



1 P2-FNI2 Intelligent Nosepiece

2 P2-FM Focus Mount Adapter

### Stage

The stage features an XY stroke of 6x4" inches (150 mm x 100 mm) and can be attached to any of the bases, making it effective for capturing large images when used in combination with imaging software NIS-Elements. A sliding stage and tilting stage are also available. \*Limited Y travel with 32 mm column bases



P-SXY64 XY Stage



## Remote Control

Nikon offers a remote control unit that can be used to operate the microscope and capture images by hand. A footswitch is also available, allowing the user to operate the microscope and capture images by foot, freeing the hands for sample manipulation.



P2-RC Remote Controller



1 AZ-PCR Photo Release  
2 AZ-FSW Foot Switch

## Darkfield Observation Accessory

Darkfield viewing is possible simply by attaching the darkfield unit to the base.

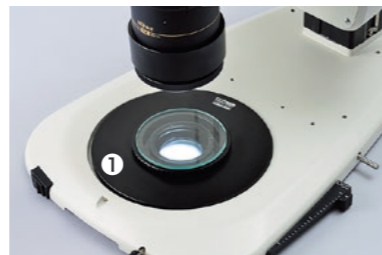
- 1 P-DF2 LED Darkfield Unit
- 2 Shading cover



## Polarizing Observation Accessory

The analyzer is attached to the objective and the polarizer to the base or stand to enable polarized viewing.

- 1 P2-POL Simple Polarizing Attachment



## Epi-fluorescence Set

### Motorized Epi-fluorescence Set

The fluorescent turret can be operated using the remote control or imaging software NIS-Elements.

- 1 P2-EFLM Motorized Epi Fluorescence Attachment
- 2 Light shading Plate (comes with Fluorescence Attachment)
- 3 P2-EFL Filter Cube (GFP-B/GFP-L/RFP)
- 4 P2-EFLBF Filter Cube (Brightfield)
- 5 P2-CTLA Control Box
- 6 P2-RC Remote Controller
- 7 P2-CIA QL1x/0.5x 1/4 λ Plate



Combinations with SMZ25

### Manual Epi-fluorescence Set

An easy-to-use manual model for Nikon's high-performance epi-fluorescence attachment.

- 1 P2-EFLI Epi Fluorescence Attachment
- 2 Light shading Plate (comes with Fluorescence Attachment)
- 3 P2-EFL Filter Cube (GFP-B/GFP-L/RFP)
- 4 P2-EFLBF Filter Cube (Brightfield)
- 5 P2-CTLB Control Box
- 6 P2-CIA QL1x/0.5x 1/4 λ Plate



Combinations with SMZ18

## Fiber Illuminator Set

### Flexible Double Arm Fiber Illumination Set

The direction and angle of illumination can be changed to suit the sample by making adjustments with these double arms. The fiber holder position can also be changed to obtain the optimal position for illuminating samples.

- 1 C-FDF Flexible Double Arm Fiber Illumination Unit
- 2 C-FIDH Fiber Holder
- 3 C-FLED2 LED Light Source for Fiber Illuminator



Combination with SMZ18

### Ring Fiber Illumination Set

This ring fiber illumination set features an episcopic illumination unit that effectively captures images (can be used with 1x and 0.5x objective lenses).

- 1 P2-FIR Ring Fiber Illumination Unit
- 2 C-FLED2 LED Light Source for Fiber Illuminator



Combination with SMZ18

## Coaxial Illuminator

The coaxial light illuminator makes it possible to view light reflected from the surface of a sample. It is ideal for shooting shadow-less images of thick samples.

- 1 P2-CI Coaxial Epi Illuminator
- 2 C-FLED2 LED Light Source for Fiber Illuminator
- 3 P2-CIA QL1x/0.5x 1/4 λ Plate



Combination with SMZ18

## Ring LED Illuminator

Ring LED illuminator is equipped with high-intensity, long-life (20,000 hours) LEDs. The illuminator's dial adjusts the intensity of the white LED.

- 1 P2-FIRL2 LED Ring Illumination Unit



Combination with SMZ25

## A variety of accessories are available for stereoscopic observations



Plan Apo WF series

### Objectives

A wide selection with various magnifications and working distances is available, including high-NA, high-resolution and wide-viewfield Plan Apo WF series objectives with superior image flatness and chromatic aberration correction.

SMZ1270/1270i SMZ800N



- 1 Plan Apo 0.5x/WF
- 2 Plan Apo 0.75x/WF
- 3 Plan Apo 1x/WF
- 4 ED Plan 1.5x/WF
- 5 ED Plan 2x/WF

Objectives	Working distance (mm)	Zoom magnification	NA	Actual FOV*1	
Plan Apo	0.5x/WF	82	0.63x	0.0095	69.8
	0.75x/WF	107	8x	0.0525	5.5
	1x/WF	70	0.63x	0.0143	46.6
ED Plan	1.5x/WF	44	8x	0.0788	3.7
	2x/WF	35	0.63x	0.0190	34.9
			8x	0.1050	2.8
			0.63x	0.0285	23.3
			8x	0.1575	1.8
			0.63x	0.0380	17.5
			8x	0.2100	1.4

\*1 With C-W10xB eyepiece

SMZ800N



- 1 Achro 0.5x
- 2 Plan 1x

Objectives	Working distance (mm)	Zoom magnification	NA	Actual FOV*1	
Achro	0.5x	189	1x	0.0145	44
			8x	0.0525	5.5
Plan	1x	78	1x	0.0290	22
			8x	0.1050	2.75

\*1 With C-W10xB eyepiece

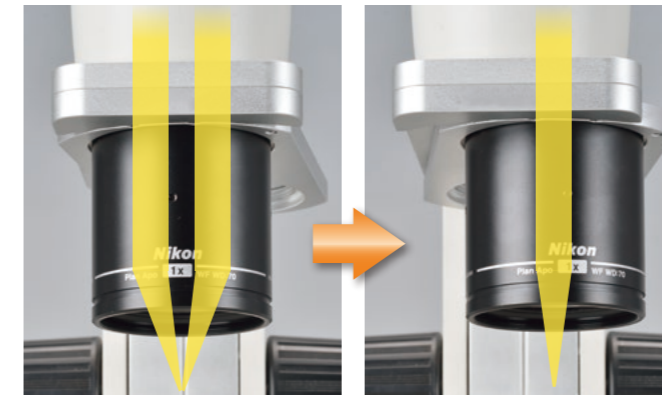
### Auxiliary Objectives

Microscopes	Auxiliary objectives	Working distance (mm)
SMZ745/745T	G-AL 0.5x	211
	G-AL 0.7x	150
	G-AL 1.5x	61
	G-AL 2x	43.5

Microscopes	Auxiliary objectives	Working distance (mm)
SMZ445/460	AL5 (0.5x)	181
	AL7 (0.7x)	127.5
SMZ-2	AL5 (0.5x)	103
	AL7 (0.7x)	95

### Nosepieces

Double nosepiece with two-objective switchover. Easy changeover from stereo position (stereoscopic view) to mono position (on-axis view) is possible by simply moving the objective lens to the right.



Stereoscopic view

On-axis view

P-RN2 Nosepiece SMZ1270/1270i SMZ800N

Observations with wider zoom ranges are possible by simply switching between two objectives.



P-RNI2 Intelligent Nosepiece SMZ1270i

Enables easy switchover between two objectives. In combination with the Digital Sight series digital camera, it automatically detects the data of objective in use.



### Tubes/Eye-level Riser

SMZ1270/1270i SMZ800N

Various ergonomic tubes with different inclination angles enable suitable eye levels to be selected for observation, even when an intermediate tube or illuminator is attached. Trinocular tubes are also equipped with camera ports.

#### P-B Binocular Tube

20° inclination angle allows observation without having to lean forward and reduces fatigue during long-time operations.



#### P-TERG100/P-TERG50 Trinocular Tilting Tube

Allows continuous adjustment of the eyepiece inclination from 0° to 30°. Optical path switching ratio of eyepiece:camera port is 100:0/0:100 with P-TERG100 and 100:0/50:50 with P-TERG50.



P-TERG100 Trinocular Tilting Tube

#### P-T100 Trinocular Tube

The eyepoint height can be raised 106 mm by tilting the eyepieces 180° up. Optical path switching ratio of eyepiece:camera port is 100:0/0:100.



#### P-IER Eye-level Riser

Increases the eyepoint height 25 mm per riser for a total of 50 mm.



### Intermediate Tubes

SMZ1270/1270i SMZ800N

Various intermediate accessories are available that can be inserted between the microscope zooming body and tube.

#### P-IBSS2 Beam Splitter S2

Using a beam splitter and camera adapter, a digital camera can be attached to the binocular eyepiece tube for imaging. Optical path switching ratio of left eyepiece:right eyepiece:camera port is 100:100:0/100:50:50.

#### P-THSS Teaching Head

Simultaneous observation of the same viewfield is possible between the eyepiece lenses of both teaching head and microscope, making it ideal for educational purposes. The pointer can indicate target points in the viewfield during observation.

#### P-IDT Drawing Tube

Drawing sample images is possible by simply tracing observed images that are overlaid on top of drawings within the viewfield. The drawings can be removed from view by using the knob to block the light path.



## Stages

Stages allow smooth sample movement in order to change viewfield during observation.

### C-SSL Dia-sliding Stage

Used for diascopic observation, this sliding stage can be easily moved in the desired direction simply with a light push. Travel range is within  $\phi 38\text{mm}$ .

SMZ1270/1270i SMZ800N  
SMZ745/745T SMZ445/460

Can be used with the SMZ25 and SMZ18



### Circular Floating Stage 2

Used for episcopic observation. Loaded with a sample, the stage can be easily moved in the desired direction simply with a light push to its edges. Travel range is within  $\phi 40\text{mm}$ .

SMZ1270/1270i SMZ800N  
SMZ745/745T SMZ-2  
SMZ445/460

Can be used with the SMZ25 and SMZ18



### C-TRS Tilting Stage

This stage has a nonslip sheet and can be tilted  $30^\circ$  from its horizontal position.

SMZ1270/1270i SMZ800N  
SMZ745/745T SMZ445/460  
SMZ-2

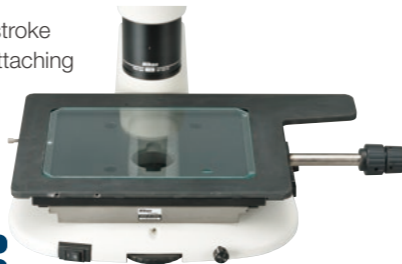
Can be used with the SMZ25 and SMZ18



### P-SXY64 XY Stage

The stage features an XY stroke of  $150\text{ mm} \times 65\text{ mm}$ . By attaching AZ100 stage adapters, it can be used for various applications. It can be used with both diascopic and episcopic illuminators.

SMZ1270/1270i SMZ800N  
SMZ745/745T SMZ445/460



## Observation Attachments

Various observation accessories are available that utilize diascopic and episcopic illuminations. They can be used for samples that are difficult to observe using standard illumination.

### P-EFL Epi-fluorescence Attachment

Up to four epi-fluorescence filter cubes can be mounted. The fly-eye lens provides bright illumination up to the viewfield periphery.

SMZ1270/1270i  
SMZ800N



### P-DF2 LED Darkfield Unit

Equipped with the white light LED as the light source. Simply placing the unit on the stage enables darkfield observation.

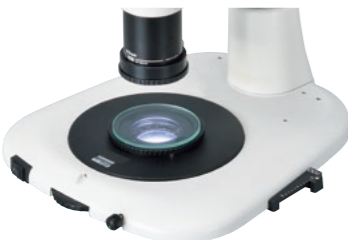
SMZ1270/1270i  
SMZ800N  
SMZ745/745T



### C-POL Polarizing Attachment

Simple polarizing observation is possible by placing the polarizer on the stage while the analyzer is attached to the tip of the objective lens.

SMZ1270/1270i SMZ800N  
SMZ745/745T



## Illumination Systems

### Ring Illuminator

Provides a cone of light from above the sample to the center, minimizing unwanted shadow. Suitable for observation of electronic substrates.



### C-FIR Plastic Fiber-optics Ring Illuminator

Illuminator is located away from microscope. It enables bright observation with high-intensity light without damaging sample with its heat.

SMZ1270/1270i SMZ800N SMZ745/745T  
SMZ445/460 SMZ-2

※ G-OBA60 Adapter is required.

### Arm Illuminator/Episcopic Illuminator

The direction and angle of the illumination can be changed with simple adjustments of the flexible arm.



### C-FID2 Double Arm Fiber Illuminator

It enables bright observation with high-intensity light without damaging sample with its heat. The direction and angle of illumination can be changed using the flexible arms.

SMZ1270/1270i SMZ800N  
SMZ745/745T SMZ445/460  
SMZ-2

### C-DFD Flexible Double Arm Fiber Illumination Unit

It enables bright observation with high-intensity light without damaging sample with its heat. The direction and angle of illumination can be changed using the fiber holder.

SMZ1270/1270i SMZ800N  
SMZ745/745T SMZ445/460

### C-LSL2 LED Episcopic Illuminator

In combination with C-PSN Plain Stand/CN and C-PSCN Compact Stand/CN, illumination angle flexibility is possible from the back of the microscope. By attaching arms, flexible change of direction and angle of illumination is possible.

SMZ1270/1270i SMZ800N SMZ745/745T SMZ445/460

### Coaxial Illuminator

Suitable for brightfield observation for high-reflectance flat surface samples such as polished metals and wafers.



### P-CI Coaxial Episcopic Illuminator

Coaxial illuminator for parallel optics-type stereo microscopes. Provides high-intensity illumination for the entire view field.

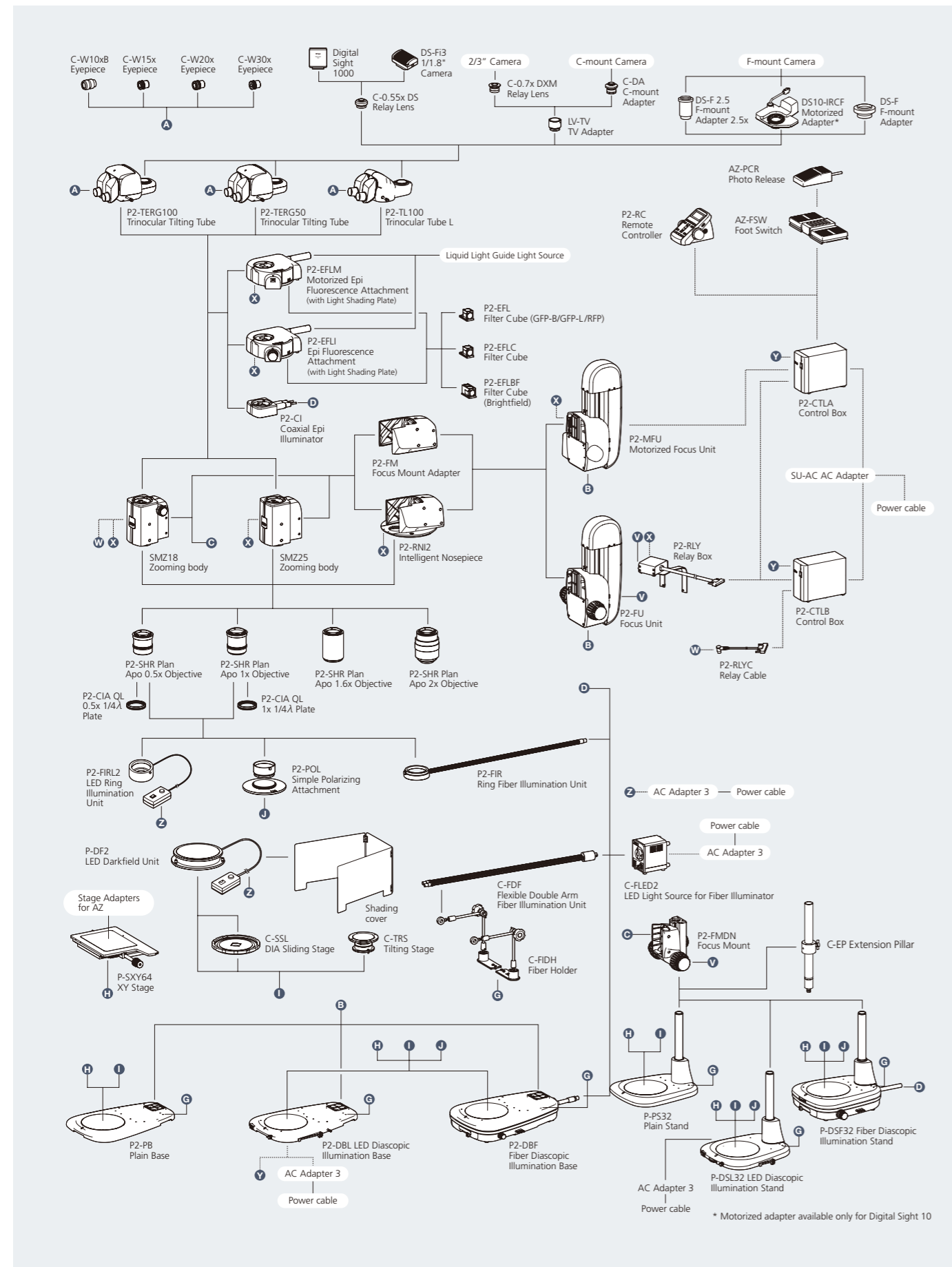
\* $1/4 \lambda$  plate is required

SMZ1270/1270i SMZ800N





# System Diagrams (SMZ25/SMZ18)

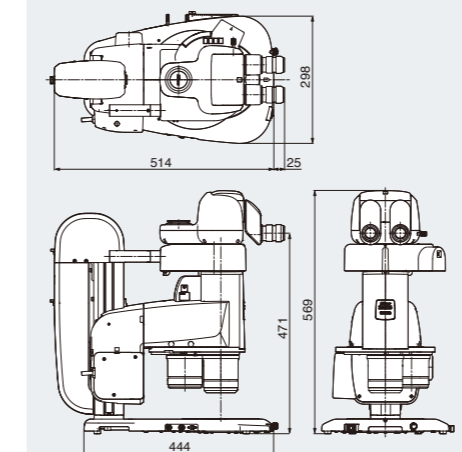


# Specifications/Dimensions (SMZ25/SMZ18)

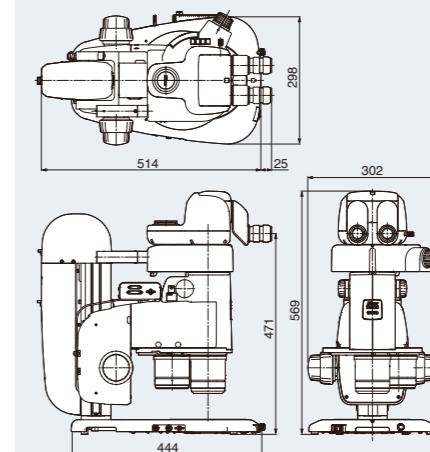
Specifications	SMZ25	SMZ18
<b>Zooming body</b>		
Optical system	Parallel-optics type (zooming type), apochromatic optical system	
Zoom	Motorized	Manual
Zoom ratio	25:1	18:1
Zoom range	0.63-15.75x	0.75-13.5x (with 0.75/1/2/3/4/5/6/8/10/12/13.5x click stops)
Aperture diaphragm	Zooming body built-in	
<b>Objectives NA, WD (mm)</b>		
P2-SHR Plan Apo 2x	0.312, 20 (with a correction ring for water 0 to 3 mm in depth)	0.3, 20 (with a correction ring for water 0 to 3 mm in depth)
P2-SHR Plan Apo 1.6x	0.25, 30	0.24, 30
P2-SHR Plan Apo 1x	0.156, 60	0.15, 60
P2-SHR Plan Apo 0.5x	0.078, 71	0.075, 71
<b>Total Magnification (using C-W10xB eyepieces)</b>	3.15-315x (depending on objective used)	3.75-270x (depending on objective used)
<b>Eyepieces (F.O.V. mm)</b>	<ul style="list-style-type: none"> <li>C-W10xB (22) • C-W 15x (16) • C-W 20x (12.5) • C-W 30x (7)</li> </ul>	
<b>Tubes (eyepiece/port)</b>	<ul style="list-style-type: none"> <li>P2-TERG 100 Trinocular Tilting Tube (100/0 : 0/100)</li> <li>P2-TERG 50 Trinocular Tilting Tube (100/0 : 50/50) Inclination angle : 0-30 degree</li> <li>P2-TL100 Trinocular Tube L (100/0 : 0/100) Inclination angle : 10 degree</li> </ul>	
<b>Focusing Unit (stroke from objective's parfocal point)</b>	<ul style="list-style-type: none"> <li>P2-MFU Motorized Focus Unit (up 96 mm/down 4 mm)</li> <li>P2-FU Focus Unit (up 97 mm/down 5 mm)</li> </ul>	
<b>Focus mount adapter/nosepiece</b>	<ul style="list-style-type: none"> <li>P2-FM Focus Mount Adapter</li> <li>P2-RN12 Intelligent Nosepiece (2 objectives can be attached)</li> </ul>	<ul style="list-style-type: none"> <li>P2-FM Focus Mount Adapter</li> <li>P2-RN12 Intelligent Nosepiece (2 objectives can be attached)</li> <li>P2-FMDN Focus Mount (for P-PS32/P-DSL32/P-DSF32 stands)</li> </ul>
<b>Bases/stand</b>	<ul style="list-style-type: none"> <li>P2-PB Plain Base • P2-DBL LED Diascopic Illumination Base (OCC illuminator built-in) • P2-DBF Fiber Diascopic Illumination Base</li> <li>P-PS32 Plain Stand (only for SMZ18) • P-DSL32 LED Diascopic Illumination Stand (OCC illuminator built in) (only for SMZ18)</li> <li>P-DSF32 Fiber Diascopic Illumination Stand (only for SMZ18)</li> </ul>	
<b>Stages</b>	<ul style="list-style-type: none"> <li>P-SXY64 Stage • C-SSL DIA Sliding Stage • C-TRS Tilting Stage</li> </ul>	
<b>Observation methods</b>	Brightfield, Epi Fluorescence, Simple Polarizing (with P2-POL Simple Polarizing Attachment), Darkfield (with P-DF2 LED Darkfield Unit), Oblique Lighting	
<b>Epi-fluorescence attachments</b>	<ul style="list-style-type: none"> <li>4 filter cubes mountable, fly-eye lens built-in</li> <li>P2-EFLM Motorized Epi Fluorescence Attachment • P2-EFLI Epi Fluorescence Attachment</li> </ul>	
<b>Episcopic illuminators</b>	<ul style="list-style-type: none"> <li>Use with fiber light source</li> <li>P2-CI Coaxial Epi Illuminator • P2-FIR Ring Fiber Illumination Unit • C-FDF Flexible Double Arm Fiber Illumination Unit</li> </ul>	
<b>Episcopic light source</b>	<ul style="list-style-type: none"> <li>C-FLED2 LED Light Source for fiber illuminator</li> </ul>	
<b>Weight (approx.)</b>	32 kg (Motorized Epi Fluorescence Attachment configuration with Trinocular Tilting Tube, Motorized Focus Unit, Intelligent Nosepiece, LED DIA Base and Objectives 1x and 0.5x)	30 kg (Epi Fluorescence Attachment configuration with Trinocular Tilting Tube, Focus Unit, Intelligent Nosepiece, LED DIA Base and Objectives 1x and 0.5x)
<b>Power consumption (approx.)</b>	30W (Motorized Epi Fluorescence Attachment configuration with Trinocular Tilting Tube, Motorized Focus Unit, Intelligent Nosepiece and LED DIA Base)	10W (Epi Fluorescence Attachment configuration with Trinocular Tilting Tube, Focus Unit, Intelligent Nosepiece and LED DIA Base)

## Dimensions

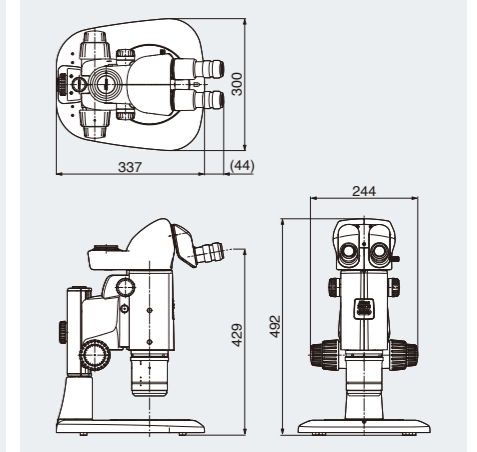
SMZ25 (configured with motorized epi-fluorescence attachment and LED DIA base)



SMZ18 (configured with epi-fluorescence attachment and LED DIA base)



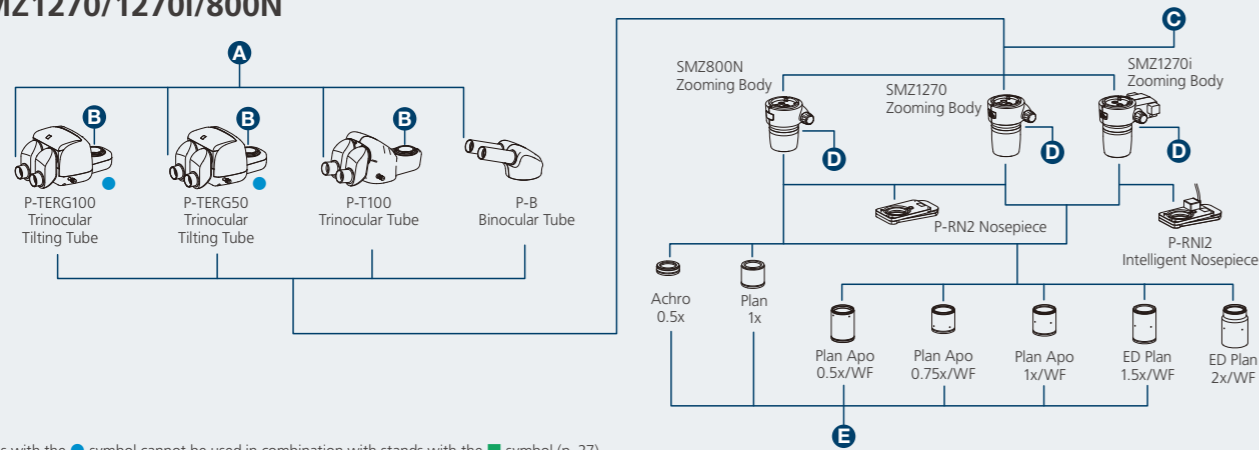
SMZ18 (configured with plain stand and focus mount)



Unit: mm

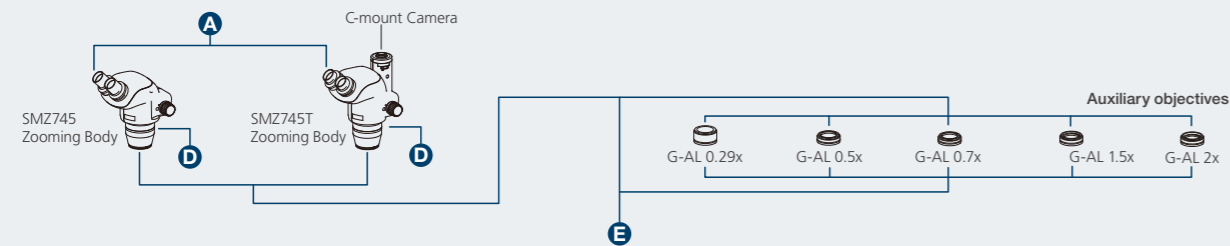
# System Diagrams (SMZ1270/1270i, SMZ800N, SMZ745/745T)

## SMZ1270/1270i/800N

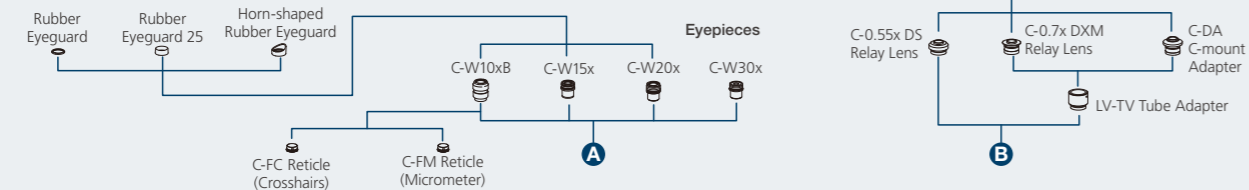


Tubes with the ● symbol cannot be used in combination with stands with the ■ symbol (p. 27).

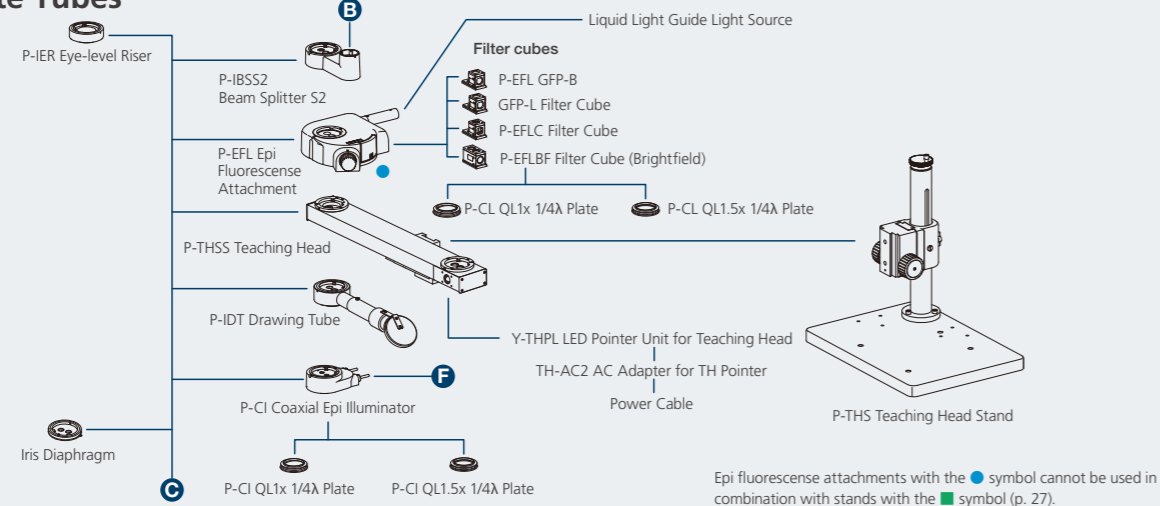
## SMZ745/745T



## Eyepieces/Camera Adapters

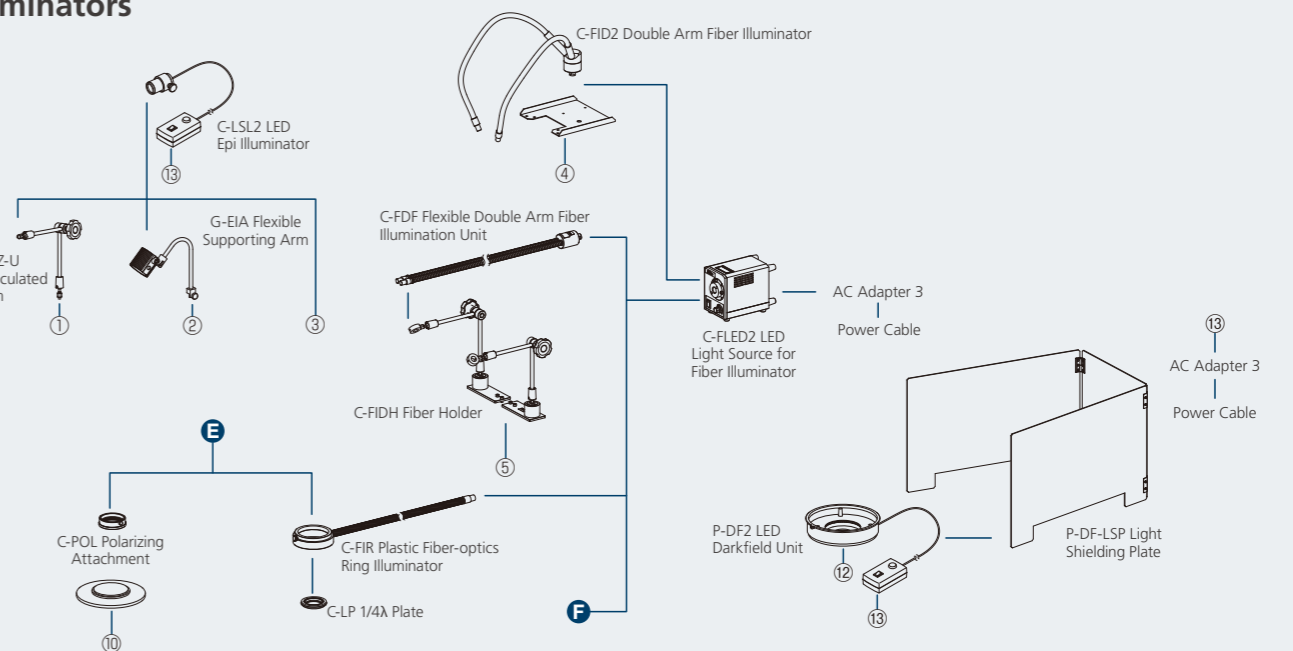


## Intermediate Tubes

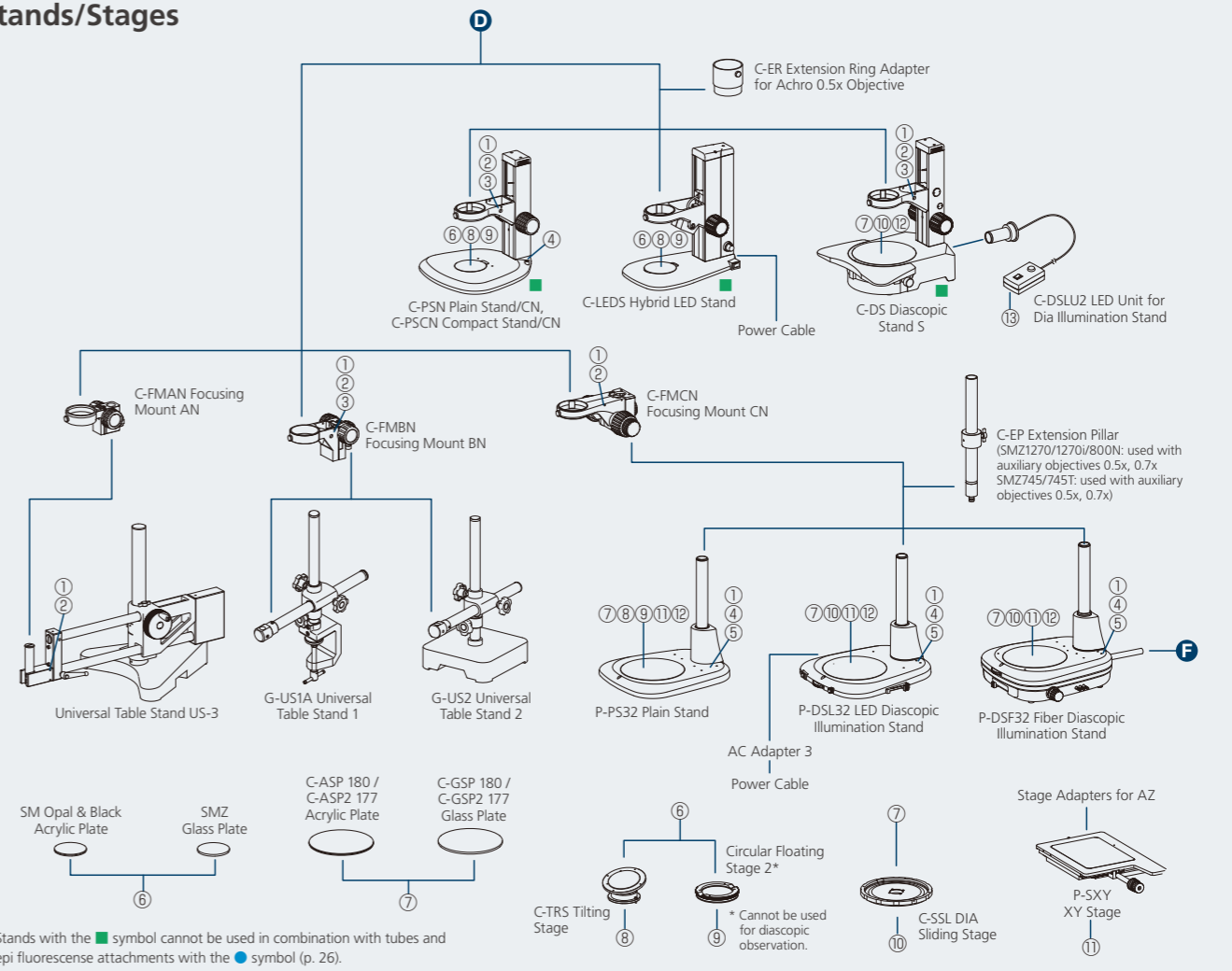


Epi fluorescence attachments with the ● symbol cannot be used in combination with stands with the ■ symbol (p. 27).

## Illuminators



## Stands/Stages



Stands with the ■ symbol cannot be used in combination with tubes and epi fluorescence attachments with the ● symbol (p. 26).



# Specifications

Parallel-optics type						
Model	SMZ25		SMZ18	SMZ1270	SMZ1270i	SMZ800N
Optical system	Parallel-optics type (zooming type)			Parallel-optics type (zooming type)		
Zoom ratio	25:1		18:1	12.7:1		8:1
Zoom range	0.63-15.75x		0.75-13.5x	0.63 – 8x		1 – 8x
Total magnification* (When coaxial episcopic illuminator is attached)	3.15-945x (12.5-472x)		3.75-810x (19-405x)	3.15 – 480x (depending on eyepiece and objectives) (with coaxial episcopic illuminator: 15 – 540x)		5 – 480x (depending on eyepiece and objectives) (coaxial episcopic illuminator: 22.5 – 540x)
Tubes	P2-TERG 100 Trinocular Tilting Tube, P2-TERG 50 Trinocular Tilting Tube, P2-TL100 Trinocular Tube L			P-B Binocular Tube, P-T100 Trinocular Tube, P-TERG 100 Trinocular Tilting Tube, P-TERG 50 Trinocular Tilting Tube		
Eyepiece inclination	P2-TERG 100/50: 0°-30°, P2-TL100: 10°			P-B: 20° P-T100: 10° P-TERG100/50: 0°-30°		
Interpupillary distance adjustment	P2-TERG 100/50: 50 mm or wider P2-TL100: 50-75mm			P-B: 48-75mm P-TERG100/50: 50 mm or wider		
Eyepieces	C-W10xB (F.N. 22), C-W15x (F.N. 16), C-W20x (F.N. 12.5), C-W30x (F.N. 7) (with diopter adjustment)			C-W10xB (F.N. 22), C-W15x (F.N. 16), C-W20x (F.N. 12.5), C-W30x (F.N. 7) (with diopter adjustment)		
Objectives	P2-SHR Plan Apo 0.5x, P2-SHR Plan Apo 1x, P2-SHR Plan Apo 1.6x, P2-SHR Plan Apo 2x			Plan Apo 0.5x/WF, Plan Apo 0.75x/WF, Plan Apo 1x/WF, ED Plan 1.5x/WF, ED Plan 2x/WF		Plan Apo 0.5x/WF, Plan Apo 0.75x/WF, Plan Apo 1x/WF, ED Plan 1.5x/WF, ED Plan 2x/WF, Plan 1x, Achro 0.5x
Working distance (with standard configuration or 1x objective)	60 mm			70 mm		78 mm
Weight (approx.)	32 kg (motorized Epi Fluorescence Attachment configuration)		10 kg (with Plain Stand and Ring LED set)	9.8 kg (with Binocular Tube + LED Diascopic Illumination Stand)	11.9 kg (with Trinocular Tilting Tube + LED Diascopic Illumination Stand)	6.8 kg (with Binocular Tube + Plain Stand)

\* Depending on eyepiece and objective used

Greenough type					
Model	SMZ745/745T		SMZ445	SMZ460	SMZ-2
Optical system	Greenough type (zooming type) Trinocular Tube (SMZ745T)		Greenough type (zooming type)	Greenough type (zooming type)	
Zoom ratio	7.5 : 1		4.4 : 1	4.3 : 1	
Zoom range	0.67-5x		0.8-3.5x	0.7-3x	
Total magnification*	3.35-300x		4-70x	3.5-60x	
Tubes	Fixed (binocular tube: SMZ745, trinocular tube: SMZ745T)		Fixed	Fixed	
Eyepiece inclination	45°		45°	60°	
Interpupillary distance adjustment	52-75mm		54-75mm	54-75mm	
Eyepieces	C-W10xB (F.N. 22), C-W15x (F.N. 16), C-W20x (F.N. 12.5), C-W30x (F.N. 7) (with diopter adjustment)		SM 10xB (F.N. 21), SM 15xB (F.N. 14), SM 20xB (F.N. 12)	SM 10xB (F.N. 21), SM 15xB (F.N. 14), SM 20xB (F.N. 12)	
Objectives	-		-	-	
Auxiliary objectives	G-AL 0.5x (W.D. 211mm), 0.7x (W.D. 150mm), 1.5x (W.D. 61mm), 2x (W.D. 43.5mm)		SM-AL 0.5x, 0.7x	SM-AL 0.5x (W.D. 181mm), 0.7x (W.D. 127.5mm)	
Working distance (with standard configuration or 1x objective)	115mm		100mm	100mm	
Weight (approx.)	1.6kg (SMZ745 body) 1.8kg (SMZ745T body)		1.0kg (body)	1.1kg (body)	
				1.6kg (body), 1.9kg (Stand)	

\* Depending on eyepiece and objective used

## Related Products

### Camera Head

Microscope Camera

#### Digital Sight 1000

2.0-megapixel Color Full HD



Microscope Camera

#### Digital Sight 10

23.9-megapixel Monochrome Color High-resolution



Monochrome Microscope Camera

#### Digital Sight 50M

60.0-megapixel Monochrome Cooled



Microscope Camera

#### DS-Fi3

5.9-megapixel Color High-resolution



### Imaging Software NIS-Elements

Enables a wide range of advanced digital imaging capabilities using a desktop PC and tablet PC.

#### Using a desktop PC

F D Br Ar

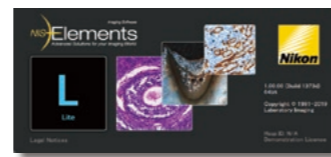


#### Using a tablet PC

L

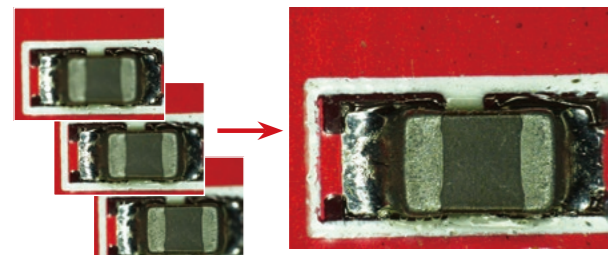
Simply installing NIS-Elements L on a tablet PC enables setting and control of microscope cameras, live image display, and image acquisition.

Note: NIS-Elements L is available only for Digital Sight 1000, DS-Fi3, and Digital Sight 10.



### EDF (Extended Depth of Focus)

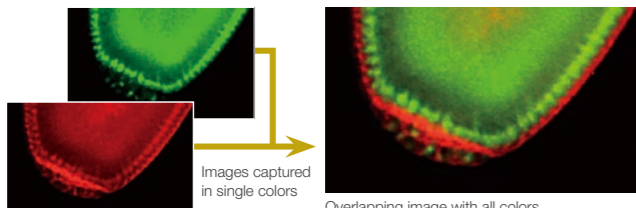
Captures multiple high-resolution images at different focal depths to create a single extended depth of focus image or quasi-3D image.



Select the in-focus area and produce one all-in-focus image

### Multichannel (multicolor)

Multiple fluorescent channels can be captured in conjunction with other imaging methods, such as OCC or brightfield.



Overlapping image with all colors

Individual cells resolved in a live drosophila embryo expressing GFP and mCherry  
(Using SHR Plan Apo 2x at zoom magnification of 8x with SMZ25)  
Image courtesy of Max V. Staller, Ph.D., Clarissa Scholes, and Angela DePace, Ph.D., Harvard Medical School

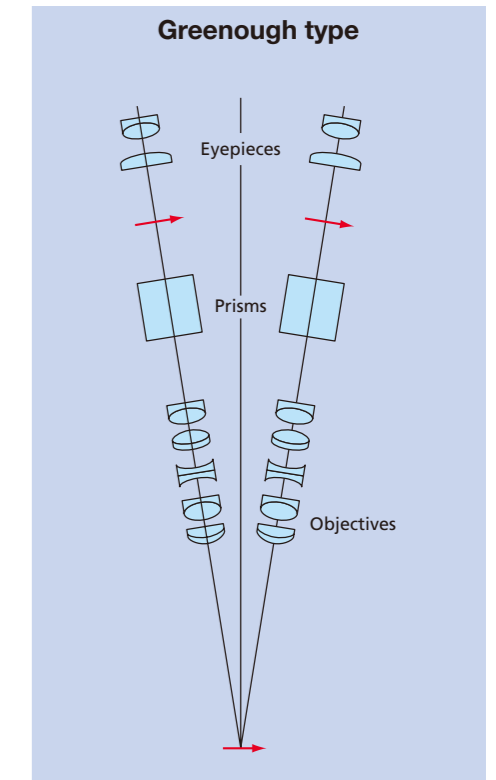
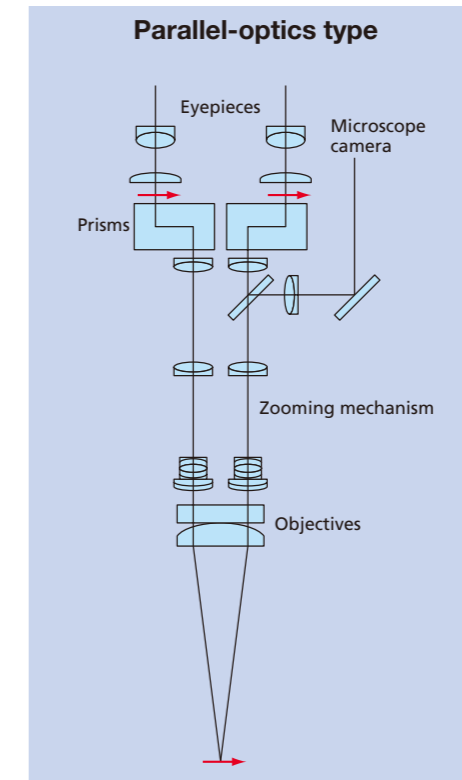
## Optical Systems

### Parallel-optics type (zooming type)

This system has a parallel optical path into which various intermediate tubes, including a beam splitter, coaxial episcopic illuminator, epi-fluorescence attachment, teaching head, drawing tube and eye-level riser, can be inserted.

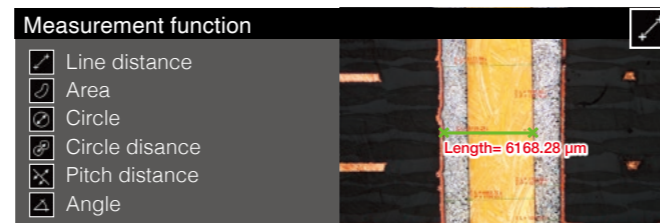
### Greenough type (zooming type)

Allows a compact body that is suited for incorporation into other devices.



### A wide variety of tools

NIS-Elements L enables the conducting of simple measurements on images, with input of lines and comments. These can also be written onto and saved with the image, and measurement data can be output.





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)

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer. December 2023  
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**WARNING**

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



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