



## Parallel-optics Type

# 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

### 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 are available

### High quality images

- Sharp images with high-level of chromatic aberration correction

### High operability for improved workability

- Automatically detects magnification data in combination with the digital camera control unit (SMZ1270i model 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



**SMZ1270i**

The same as the SMZ1270 but equipped with intelligent function found in superior models



**SMZ1270**

Standard stereo microscope with the highest-in-class zooming ratio



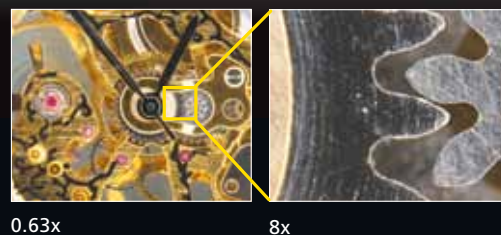
**SMZ800N**

Affordable model with improved operability and basic performance

## 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 during screening and high-magnification observation of microscopic structures (\* with 1x objective at the lowest magnification).

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



## High-level chromatic correction



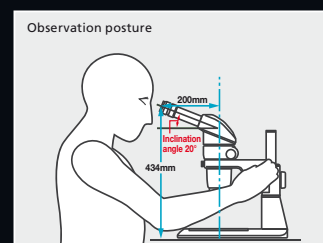
Apochromat optics

Conventional optics

Apochromat optics are adapted to the SMZ1270/1270i zoom body and semi-apochromat optics to the SMZ800N to achieve high-level chromatic aberration correction. They offers sharp images without blur or color fringe.

## 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.



## Intelligent function for status readout SMZ1270i

In combination with the Camera Control Unit DS-L3 and 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.



## Newly developed objectives

In combination with the newly developed WF series objectives, the SMZ1270/1270i offers a wide and uniformly bright viewfield even at low magnifications. In addition, a 0.75x objective is now available, expanding the lineup of low magnification objectives



	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*(when coaxial episcopic illuminator is attached)	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-BT Standard Binocular) / 15° (P-TL100 Trinocular Tube L) / 0°-30° (P-TERG 100 Trinocular Tilting Tube, P-TERG 50 Trinocular Tilting 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, ED Plan 0.75x, Achro 0.5x
Working distance (with standard configuration or 1x objective)	70 mm (with Plan Apo 1x/WF)		78mm (with Plan 1x)
Weight (approx.)	9.8 kg (with P-B Standard Binocular Tube + P-DSL32 LED DIA Illumination Base)	11.9 kg (with P-TERG 100 Trinocular Tilting Tube + P-DSL32 LED DIA Illumination Base)	6.8 kg (with P-B Standard Binocular Tube + C-PSN Plane Stand)