

■ SZ61/SZ51 Specifications

Item	Specifications				
	SZ61	SZ61-60	SZ61TR	SZ51	SZ51-60
Microscope body					
SZ61	Magnification		0.67x to 4.5x		0.8x to 4x
SZ61-60	Zoom ratio		6.7: 1		5: 1
SZ61TR	Working distance				
SZ51	110mm				
SZ51-60	Tube inclination angle		45°		60°
	Interpupillary distance adjustment		Left/right interlocked Adjustment range: 52 to 76 mm (using the WHSZ10X eyepieces)		
	Video camera adaptability		—		C-mount (0.5x built in)
	Zoom adjustment knob		Left/right single-shaft horizontal knob Interpupillary distance high/low magnification stopper incorporated.		
	Optical components				
	Lead-free				
Auxiliary objective	Mounting by screwing into the thread at the bottom of frame (M48 thread x0.75)				
Eyepiece	"ComfortView" WHSZ series Lead-free				
Stand	SZ2-ST		SZ2-ILST		
SZ2-ST	Standard stand		LED reflected/transmitted illumination stand		
SZ2-ILST	Frame installation		Mounting diameter: 76mm		
	Focusing adjustment		Focusing stroke: 120mm		
	Stage plate		SZ2-SPBW (Black & white for anti-ESD) SP-C (Clear glass plate)		
	Light source		Fiber optic illumination system SZ2-LGB mountable (option) Transmitted light illumination attachment (SZ2-ILA) mountable (option)		
			The dedicated glass plate in 100mm dia. included		
			Transmitted illumination: LED Reflected illumination: LED Average LED life span: 6000 hrs. Input rating: 100-120V/200-240V ~0.15/0.1A, 50/60Hz		
Weight	Zoom body only		1,300g		1,500g
	Configuration 3		3,520g		3,720g

Configuration3: Zoom body + WHSZ10X-H(2) + SZ2-ST

■ SZ61/SZ51 optical performance

Microscope Body	Zoom magnification	WHSZ10x-H WHSZ10x		WHSZ15x-H		WHSZ20x-H WHSZ20x		WHSZ30x-H	
		F.N. 22		F.N. 16		F.N. 12.5		F.N. 7	
		Total magnification	Field of view (mm)	Total magnification	Field of view (mm)	Total magnification	Field of view (mm)	Total magnification	Field of view (mm)
SZ61	0.67x	6.7	32.8	10.1	23.9	13.4	18.7	20.1	10.4
	1x	10	22	15	16	20	12.5	30	7.0
	2x	20	11	30	8	40	6.3	60	3.5
	3x	30	7.3	45	5.3	60	4.2	90	2.3
	4.5x	45	4.9	67.5	3.6	90	2.8	135	1.6
SZ51	0.8x	8	27.5	12	20	16	15.6	24	8.8
	1x	10	22	15	16	20	12.5	30	7.0
	2x	20	11	30	8.0	40	6.3	60	3.5
	3x	30	7.3	45	5.3	60	4.2	90	2.3
	4x	40	5.5	60	4.0	80	3.1	120	1.8

* No auxiliary objective lens is attached

■ Auxiliary objective for SZ61/SZ51

	Working distance (mm)
110AL0.25x	400
110ALK0.3x	250-350
110ALK0.4x	180-250
110AL0.5x	200
110AL0.62x	160
110AL0.75x	130
110AL1.5x	61
110AL2x	38

■ "ComfortView" WHSZ eyepiece

	F.N.	Diopter adjustment	Reticle	Focal magnification
WHSZ10x	22	—	N.A.	—
WHSZ20x	12.5	—	N.A.	—
WHSZ10x-H	22	-8-+5	Yes*2	—
WHSZ15x-H	16	-8-+5	Yes*2	—
WHSZ20x-H	12.5	-8-+5	Yes*2	1.3x
WHSZ30x-H	7	-8-+5	Yes*2	2x

*2Applicable reticle size: 24mm diameter, t1.5

As of Oct. 1, 2003, Olympus Optical Co., Ltd. is named Olympus Corporation.



Specifications are subject to change without any obligation on the part of the manufacturer.

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OLYMPUS

Your Vision, Our Future

ZOOM STEREO MICROSCOPE

SZ61/SZ51

For Biological Use

The Comfort Zone

High-performance optics in a compact, comfortable design

Incorporating new improvements to the highly-regarded Greenough optical system, the SZ61 and SZ51 successfully meet the demand for a variety of observation and documentation options in a genuinely compact microscope design. Clear, sharp image reproduction is matched by new ergonomic design elements which maximize comfort and ease of use.

The SZ61 and SZ51 microscope bodies are manufactured using newly developed lead-free optics, demonstrating Olympus commitment to protect the environment.

6.7:1 — the best zoom ratio in this class

The SZ61's class-leading magnification range extends from 6.7x through 45x (using 10x eyepieces), with a zoom ratio of 6.7:1. This derives from a newly developed optical system and allows quick, comfortable observations at the most appropriate magnification. The SZ51 provides a magnification range from 8x through 40x (using 10x eyepieces), with a zoom ratio of 5:1.

Outstanding depth of field and flatness

The 10-degree angle of convergence in the Greenough optical system secures excellent image flatness with large depth of field.

Accurate color reproduction

The careful selection of lens surface coatings and glass materials in the entire optical system makes it possible to observe and document specimen in their original, authentic colors.

Sharp, clear, high-contrast images

High contrast images and field flatness ensure accurate reproduction and documentation of original specimen shapes.

"Comfort View" eyepieces for greater comfort and faster work

Quick, comfortable observation and documentation are ensured by this completely new eyepiece design featuring Pupil Aberration Control and Appropriate Positioning in the eye point. The result is a field of view that is easy to find, comfortable to view, and easy to keep.



The Greenough optical system has two zoom optical paths inclined at a 10° angle. This enables a compact microscope design with high performance.



Five variations in zoom performance

The SZ61 and SZ51 provide five system configuration choices. First, they can both be equipped with an ergonomically designed 45° inclination tube when mounted on standard stands. Second, operators can attach a 60° inclination tube (SZ61-60/SZ51-60) for special applications where the zoom body has to be tilted for use with other equipment or mounting on a universal stand. And for documentation purposes, OLYMPUS also offers the SZ61TR, which incorporates a trinocular tube for easy attachment of digital and video cameras.

Convenient front-access operation

Improved ease of access to the most frequently used knobs and controls maximizes operator comfort and reduces neck and back strain.



The right accessory for every application

Microscope digital camera DP12 (SZ61TR)

Compact overall design, with palm-size multi-function control unit integrating a 3.5" LCD monitor with 200,000-pixel display, and a small footprint that makes it easy to install and lay out any necessary auxiliary equipment. The 3.34 million-pixel and 1/1.8 inch progressive scanning CCD system ensures highly precise digital images which can be stored at a maximum resolution of 2048x1536. Stand alone camera is digital yet does not need to be connected to a PC.

CAMEDIA Micro imaging system

A simple adapter enables an Olympus CAMEDIA digital camera to be attached to the eyepiece of a binocular body — an easy, practical and cost-efficient means of obtaining digital images.

Various universal stands

A variety of universal stands are available for the observation of large size specimens. No matter how big the samples are or how much they vary in size, OLYMPUS has the right choice of stands to suit any requirements.



SZ61TR+DP12



SZ61+CAMEDIA Micro Imaging System



SZ61+SZ2-STU3



SZ51+SZ2-STU2



Wide choice of auxiliary objectives and eyepieces

A wide choice of auxiliary objectives enables observation at the optimum working distance (W.D.) for a variety of applications. W.D. can be changed between 250mm-350mm (0.3x objective) and 180mm-250mm (0.4x objective). Eyepieces are available ranging from 10x to 30x to optimize system magnification.



Auxiliary Objectives



Eyepieces

Choose the illumination source that suits the task at hand



LED illuminator stand / SZ2-ILST

The world's first LED stand features a thin design to keep sample positions low and to optimize operability. Simultaneous transmitted and reflected light are available on this stand. LED light offers both long lifetime and constant color temperature at any intensity.



Transmitted illumination attachment / SZ2-ILA

Used with the SZ2-ST stand, this cost-effective illumination stand provides bright, uniform illumination from low to high magnifications. Tilttable mirror provides direct and oblique illumination for low contrast specimen. Available 22W and 100W lamphouses provide necessary power for a variety of illumination needs.



High-level transmitted light illuminator / SZX-ILLB2

With its variable contrast of High and Low, this unit provides clear, effective contrast and illumination. Light intensity and color temperature are adjusted by means of a built-in bank of three filters. Adjustable slit aperture for oblique contrast. Adjustable slit aperture for oblique for oblique contrast.



Brightfield/darkfield transmitted light illuminator / SZX-ILLD2

This improved stand can provide bright and high contrast Darkfield image with dark enough background. Illumination area in Brightfield up to $\phi 63\text{mm}$ and in Darkfield to $\phi 33\text{mm}$.



Flexible light guide / SZ2-LGSF

A single fiber optic guide is fixed at the back of the objective so as not to disturb microscope operation.



Interlock dual light guide / SZ2-LGDI

Standard oblique semi-rigid fiber optic light guide. The light source position on the rear side of the stand saves desk space.



Ring light guide / SZ2-LGR

Used with LGB illumination system, this ring light guide provides bright and uniform images.



Coaxial reflected light illuminator / SZ2-ILLC

It combines a polarizer and a $1/4\lambda$ plate, for easier viewing of specimens which are difficult to examine under oblique reflected light illumination.