OLYMPUS

Your Vision, Our Future

Stereomicroscope Lineup

SZX16/SZX10/SZX7/SZ61/SZ51

For Biological Use

S Z X 1 6 / S Z X 1 0

S Z X 7

S Z 6 1 / S Z 5 1

Olympus stereomicroscopes deliver excellent images needed for cutting-edge research.

Olympus presents two stereomicroscopes that are models of efficiency offering excellent optical performance. Integrated with the Galilean optical system, the SZX16/SZX10/SZX7 series has a wide zoom range for distinct clarity and high-resolution imaging. The Greenough optical system has been designed into the SZ61/SZ51 series with a compact body for user-friendly operation throughout the zoom range. All models deliver outstanding image data that are a distinct advantage for a wide range of biological applications and specimens of any type or size.

Stereomicroscope Lineup

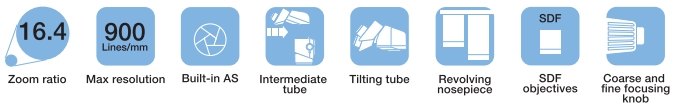
Galilean optical system

SZX16 Series

High precision stereomicroscope: Optimum viewing and ease of use

- New SDF objectives with a high NA and 900 lp/mm* resolution as well as superb 1:16.4 zoom function
- Astigmatism-free design for sharper-than-ever 3D observation
- Ergonomic design for natural posture plus reduced stress and fatigue during long-time observation

*900 lp/mm is achieved when the SDFPLAPO2XPFC lens is used.

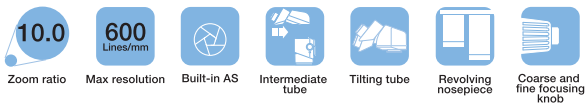


Galilean optical system

SZX10 Series

Highly versatile basic model reproduces true-to-life images of samples

- Optimal performance in routine tasks like selection or dissection with 1:10 zoom ratio
- Easy-to-use, fatigue-free design, as seen in the SZX16
- Broad selection of accessories to enhance research capability



■ Illumination suited to various samples

Choose from a lineup of expandable illuminators that can be integrated into stereomicroscope systems. Olympus stereomicroscopes create optimal illuminating environment for optimum results in brightness, co

High-level transmitted light illumination base
SZX2-ILLB
Brightfield/darkfield transmitted light illumination base
SZX2-ILLD
Transmitted light illumination base
SZX2-ILLK

Slim LED transmitted light illumination base
SZX2-ILLT

Dual inter-lock light guide
LG-DI

Coaxial illuminator
SZX2-ILLC16/SZX2-ILLC10

Optics Performance Specifications

	Zoom ratio	Zoom magnification	Total magnification*	Resolution	Long WD
SZX16	16.4	0.7x~11.5x	2.1x~690x	★★★★★	★★★
SZX 10	10.0	0.63x~6.3x	3.15x~378x	★★★★	★★★★
SZX 7	7.0	0.8x~5.6x	4.0x~336x	★★★★	★★★★
SZ 61	6.7	0.67x~4.5x	1.68x~270x	★★★	★★★★★
SZ 51	5.0	0.8x~4.0x	2.0x~240x	★★★	★★★★★★

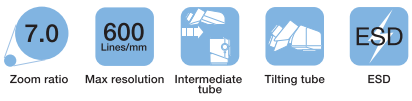
*From the combined use of objectives and eyepieces.

Galilean optical system

SZX7 Series

Cost–efficient model with Galilean optical system

- Compact model expandable for high-resolution observation
- Trinocular tubes compatible with digital camera are available

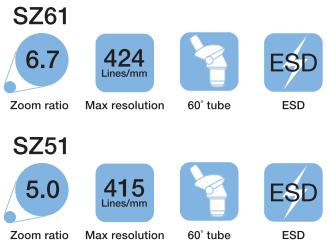


Greenough optical system

SZ61/SZ51 Series

All functions needed for routine work, all in one compact body

- Greenough optical system for maximum performance
- Slim and compact body for enhanced efficiency
- Well-suited to routine work alone or in combination with other devices, including digital cameras and TV cameras



ntrast, and spotlighting, depending on various manipulations and samples.

Transmitted illumination attachment
SZ2-ILA

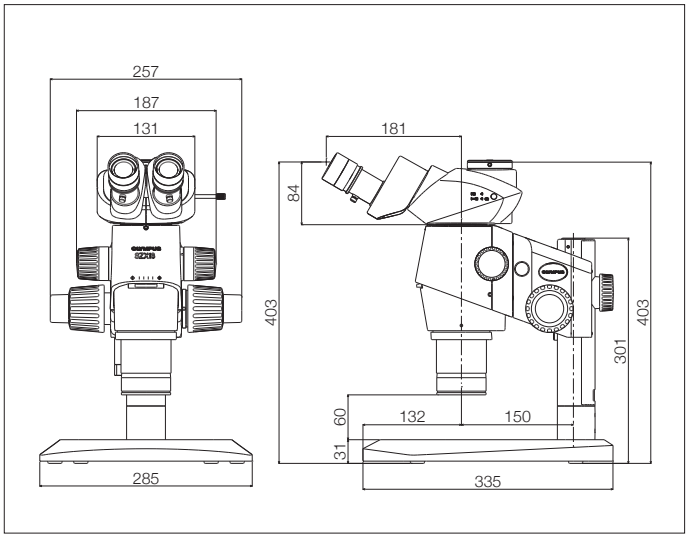
LED illumination stand
SZ2-ILST

Six-point ring light guide
SZX-LGR66 + SZ2-CLGR + SZ2-CLS

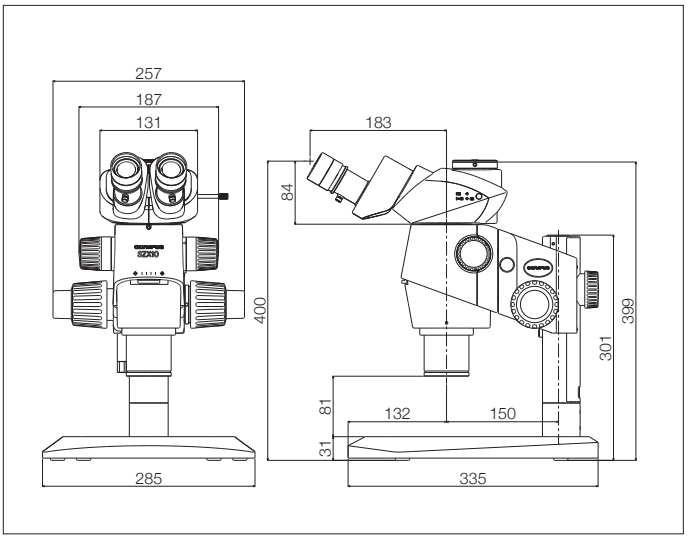
Dual interlock light guide
SZ2-CLGDI + SZ2-CLS

Please refer to other product catalogs for more details on illuminators.

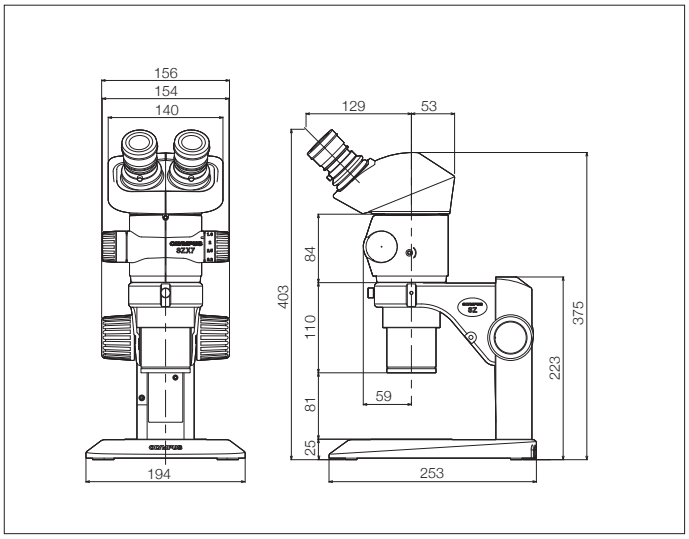
SZX16 standard set dimensions (unit: mm)



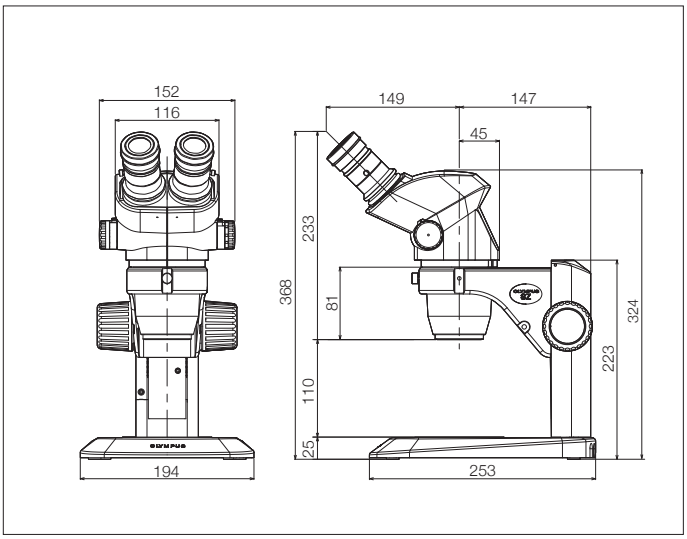
SZX10 standard set dimensions (unit: mm)



SZX7 standard set dimensions (unit: mm)



SZ61/ SZ51 standard set dimensions (unit: mm)



- **OLYMPUS CORPORATION is ISO14001 certified.**
- **OLYMPUS CORPORATION is FM553994/ISO9001 certified.**
- **OLYMPUS CORPORATION is MD540624/ISO13485 certified.**
- **Illumination devices for microscope have suggested lifetimes. Periodic inspections are required. Please visit our website for details.**

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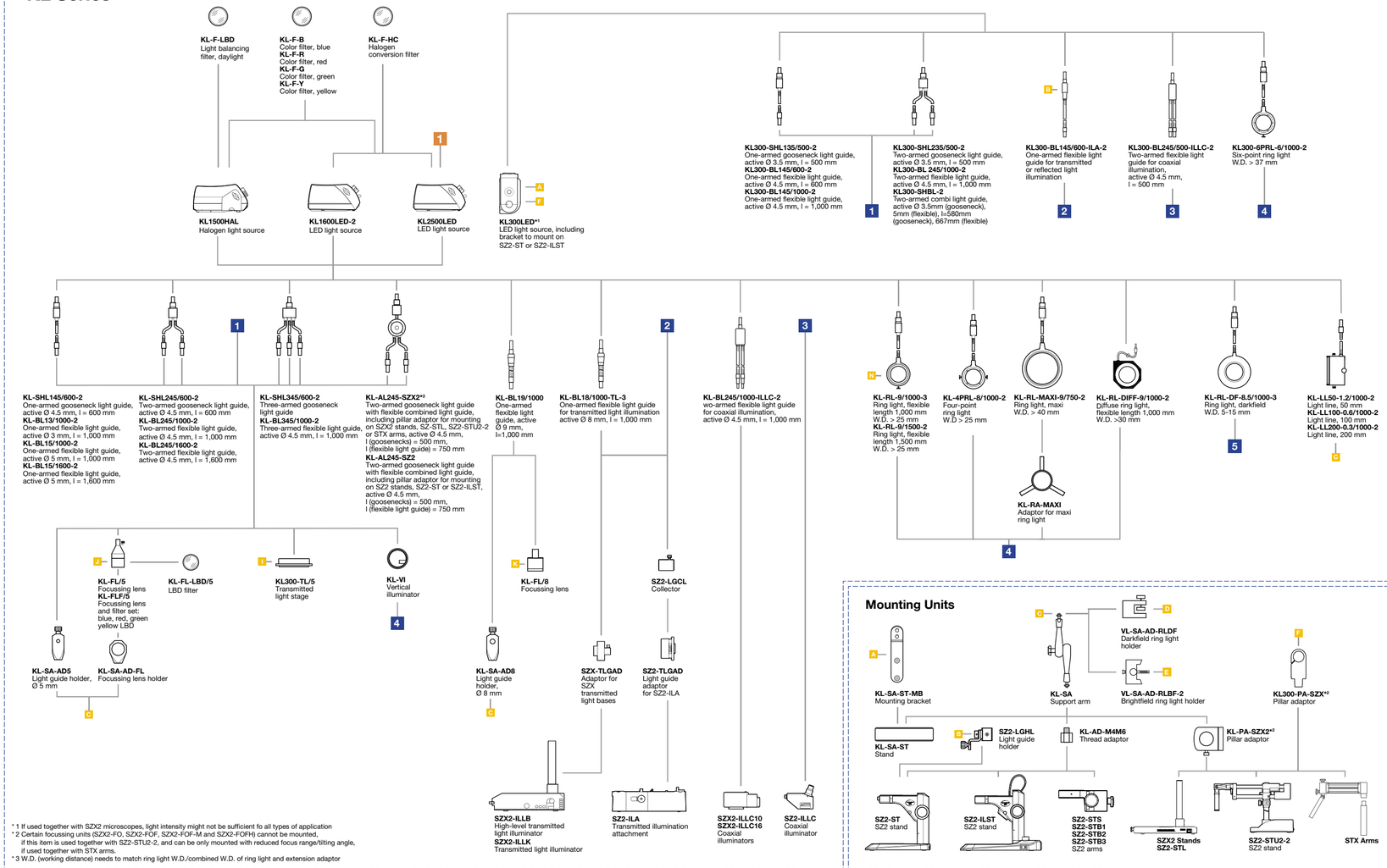
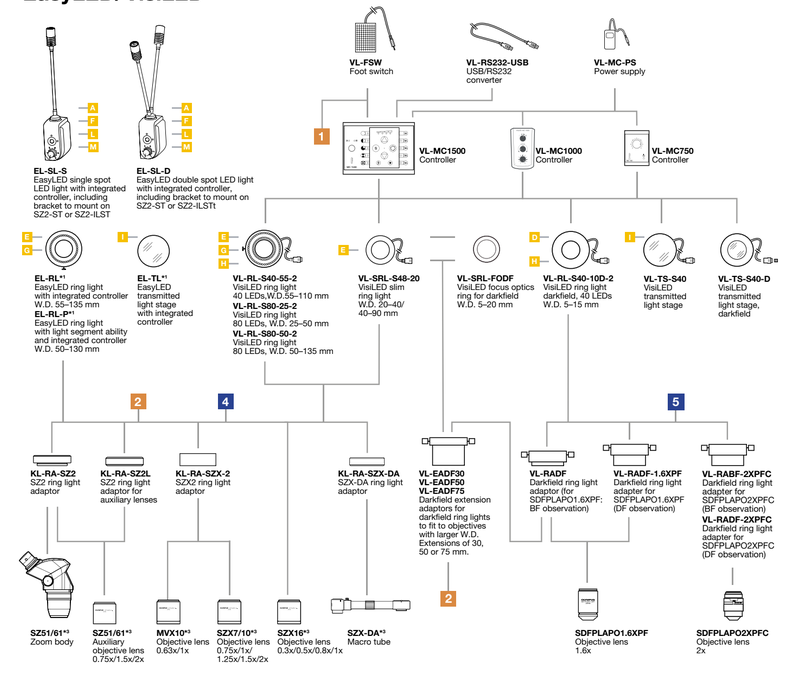
Stereo Microscope Lighting System Diagram

KL Series



* 1 If used together with SZX2 microscopes, light intensity might not be sufficient fo all types of application
* 2 Certain focussing units (SZX2-FO, SZX2-FOF, SZX2-FOF-M and SZX2-FOFH) cannot be mounted, if this item is used together with SZ2-STU2-2, and can be only mounted with reduced focus range/tilting angle, if used together with STX arms.
* 3 W.D. (working distance) needs to match ring light W.D./combined W.D. of ring light and extension adaptor

EasyLED/VisiLED



Mounting Units

Filters and Ring Light Accessories

Illuminating Insights

Revealing the most subtle and unique features of a sample is the key to insightful analysis. Channeling the power of light, Olympus presents a wide range of illumination solutions to enhance the contrast of any sample, with any illumination technique – to produce sharp and clear images. Each illumination module is carefully integrated into the complete stereomicroscope system, guaranteeing expert results every time in every application.

Utilizing the latest high-intensity, low energy LED technology, the optimum illumination presents samples in their best light, with maximum convenience. Visible color temperature is retained during stepless dimming, to deliver balanced images at the ideal illumination intensity, without the need for extra filter adjustments. For situations where familiar daylight illumination is desired, Olympus also offers halogen illumination.

For every application, choosing the best illumination setup is essential for image quality – and Olympus provides a solution for every need.

A Compact Solution with EasyLED

Ergonomics meets easy operation with the EasyLED series. Merging illumination and control functionalities into a single compact unit saves valuable workbench space, and with the lighting now controlled directly on the microscope, setting the perfect light level has never been so simple.

Taking control with VisiLED

Answering the needs of the most specialized of tasks, the modular VisiLED series is built on flexibility and quality. Molding the lighting setup to each application, a number of high-performance ring lights and light stages enable high-intensity illumination or even a combination of techniques. This range includes an extra-slim ring light, for example, that not only allows the use of two objectives simultaneously, but can also be used for both brightfield and darkfield illumination. Moving beyond the possibilities of conventional illumination, the perfect contrast method is realized through excellent electronic control of light segmentation.

Maximized flexibility with the KL Series

Delivering intense yet uniform illumination, with the diverse KL Series there is a perfect combination to suit every application – from compact to high-end solutions, and halogen as well as LED light sources. The modular setup provides ultimate flexibility, and the wide variety of available light guides include different spot illumination, ring lights, light stages and light lines. Light can also be coupled into the stereomicroscope setup for tasks requiring transmitted or coaxial illumination.

Accessorizing for a perfect fit

With a variety of mounting units and adapters, the perfect combination of lighting equipment can be achieved on any Olympus stereomicroscope configuration. For unique, individual applications, Olympus also supplies an assortment of different color, conversion and polarization filters.

			KL Series				EasyLED					VisiLED								
			Light Source				Light Spot		Ring Light		Light Stage	Ring Light						Light Stage		
			KL1500HAL	KL2500LED	KL1600LED-2	KL300LED	EL-SL-S	EL-SL-D	EL-RL	EL-RL-P	EL-TL	VL-RL-S40-55-2	VL-RL-S80-25-2	VL-RL-S80-50-2	VL-SRL-S48-20	VL-RL-S40-10D-2	VL-TS-S40	VLvTS-S40-D	
Observation Methods	Brightfield (BF)		•	•	•	•			•	•	•	•	•	•	•		•		
	Directional BF, segmented LEDs									•		•	•	•	•		•		
	Darkfield (DF)		•	•	•											•		•	
	Directional DF, segmented LEDs															•		•	
	Polarisation		•	•	•	•	•	•	•	•	•	•	•	•			•		
	Oblique line illumination		•	•	•														
	Flexible spot illumination		•	•	•	•	•	•											
Lamp Data	Type		HAL	LED															
	Color temperature, approx. (K)		2000–3400	5600															
	Average life time, approx. (h)*1		1500*2	50000															
	Max. Power consumption (W)		180	80	37	5	2.75	5.5	5.5	6	4.8	3.1	6.2	6.2	5.6	3.1	3.1	3.1	
	Operating voltage, AC (V)		120-230																
	Light intensity adjustment		continuous																
Light Intensity*3	Light flux (lm)*4		600	1100	680	80	130	260											
	Ringlight illuminance*5 (kLux) (at defined W.D.)		109 (50)	202 (50)	144 (50)	49 (50)			90 (75)	140 (65)		80 (75)	320 (30)	200 (75)	65 (50)	130 (10)			
	Light Stage luminance (Cd/m²)*5										12000						20000	70	
General Specifications	Dimensions	W (mm)	200	200	114	107	107	107	Ø 114	Ø 114	Ø 84	Ø 114	Ø 114	Ø 114	Ø 82	Ø 84	Ø 100	Ø 140	
		D (mm)	286	265	231	114	114	114											
		H (mm)	147	170	137	61	61	61	28.5	28.5	16.5	27	27	27	30	16.5	22.5	22.5	
	Weight, approx. (kg)		4.2	6	2.45	0.35	0.67	0.795	0.58	0.58	0.59	0.38	0.38	0.38	0	0.2	0.31	0.83	
	Cooling		fan	convection															
	Ambient temperature (°C)		+5 – +40																

*1 Max. decline of light output to 70% of origin level

*2 Using the ECO level

*3 Different illumination methods require different methods in order to measure the perceived light intensity. Values can only be compared, if the same measurement method and the same observation method have been used.

*4 Values refer to spot illumination. For KL series this is measured at the output of a one-armed flexible light guide with maximum active diameter and a length of 600 mm (for KL300LED) or 1000 mm (for other KL light sources).

*5 Values refer to brightfield illumination except for VL-RL-S40-10D-2, which is especially designed for darkfield illumination.

*6 Values refer to brightfield illumination except for VL-TS-S40-D, which is especially designed for darkfield illumination.

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Illuminating Insights