

**OLYMPUS**<sup>®</sup>

Your Vision, Our Future

STEREOMICROSCOPE

**SZX7/SZ61/SZ51**



**For Industrial Use**



# Comfort for your eyes — precision for your work

The human eye is a wonderful instrument, catching images of every moment of our lives.

At the same time it is extremely sensitive, and can become exhausted if it is not treated with care.

OLYMPUS has therefore made every possible effort to develop new optical systems that allow the human eye to feel comfortable and relaxed while working with stereo microscopes.

This not only protects the eyes but also leads to much more precise and consistent results in daily work.

All three models — the SZX7 with its advanced Galilean optical system, the full-featured SZ61 and the versatile SZ51 — provide 3D images with true color, high resolution and no distortion.

Welcome to the comfort zone.



**SZ51**

**SZ61**

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**SZX7**



**SZ61TR**

*SZX7: Galilean optical system using parallel light paths for outstanding performance and easy expandability.*

*SZ61: Top-of-the-line optical performance, with zoom ratio of 6.7:1.  
Model variations: SZ61TR (with trinocular tube),  
SZ61-60 (with 60 degree observation tube inclination).*

*SZ51: Versatile, cost-efficient, ideal in all line inspection applications.*

## Optical excellence and system expandability — SZX7 with Galilean optics

“Providing the optimal image for any specimen” by the adoption of the Galilean optical system and the DF (Distortion Free) objective lens series with maximum N.A. (Numerical Aperture).

### 7:1 the best zoom ratio of the class

With a magnification range of 8x-56x (using 1x objective lens/10x eyepiece), the SZX7 offers a maximum zoom ratio of 7:1. This is the best in its class, and allows any given specimen to be observed at the most appropriate magnification.

### The best resolving power in this class

Superior quality objective lenses deliver accurate, high resolution observation images which show every specimen in minute detail.

### A range of objective lenses to suit every specimen and every application

- Superior image flatness:

The DFPlan objective lens series accurately reproduces the original shape of the specimen.

- Longest working distance (W.D.) in this class:

The objective lenses range from the SZX-ACH1x (90mm W.D.) to the DFPL0.5x (198mm W.D.). As a result, even specimen surfaces which are difficult to access can be observed easily.

- Ideal for high magnification:

Superior quality image is ensured up to 336x, by combining a 2x objective lens with 30x eyepieces. Also available is an excellent apochromatic objective lens DFPLAPO1.25x, which reaches the higher zoom range of 1x through 7x.



Galilean optics feature two (right/left) independent and parallel zoom optical paths to produce the focal point with one objective lens. The system enables high optical performance as well as functional modularity.





**“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.

**Accurate color reproduction**

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

**Sharp, clear, high-contrast images**

The low, suppressed field curvature ensures accurate reproduction of original specimen shapes.

**A wide variety of observation tubes and intermediate tubes enable operators to obtain precisely the right image**

Various different types of tubes are available, and can be freely combined to create the ideal system for any specified purpose.

**SZX7 tubes:**

- Aperture diaphragm unit / SZX-AS
- Macro tube / SZX-DA
- Beam splitter / SZX2-LBS
- Photo adapter / SZX-PHA
- Eyepoint adjuster / SZX-EPA
- Side by side discussion tube / SZX-SDO
- Filter adapter / SZX-FAD
- Coaxial reflected light illuminator / SZX2-ILLC10



Aperture diaphragm unit / SZX-AS



① 45 degree binocular head / SZX-BI45 ② Tilting trinocular head / SZX2-TTR  
③ 30 degree trinocular head / SZX-TR30

## Precise, functional and compact — SZ61/SZ51

"A practical range of functions for observation and documentation in a compact stereo microscope body"  
The SZ61/SZ51, incorporating the Greenough optical system.

### **6.7:1 the best zoom ratio of the class**

The SZ61's class-leading magnification range extends from 6.7 through 45x (using 10x eyepiece), with the zoom ratio of 6.7:1. This derives from the 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 eyepiece), with the zoom ratio of 5:1.

### **Outstanding depth of focus and flatness**

The 10-degree angle convergence of the image forming path in the Greenough optical system secures excellent image flatness with deep depth of focus.

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*The Greenough optical system has two zoom optical paths inclined at an inward angle. This enables a more compact microscope design while maintaining high performance.*



### Five zoom body variations with high performance

The SZ61 and SZ51 zoom bodies provide two different magnification ranges. They are available with an ergonomically designed 45-degree inclination tube for the use on the standard stands. For special applications where the zoom body has to be tilted for use with other equipment or mounting on a universal stand, models with 60-degree inclination tube (SZ61-60/SZ51-60) are available. For documentation purposes, OLYMPUS also offers the SZ61TR, which incorporates a trinocular tube for easy attachment of digital and video cameras.

### Wide choice of auxiliary objective lenses

A wide choice of auxiliary objective lenses enables observations at magnifications from 2x to 270x and W.D. up to 350mm to comply with every application purpose.



# Work more comfortably...and more productively

The Olympus approach to ergonomic design seeks to achieve improvements that make work easier, more comfortable, and more productive, all at the same time. That means applying advanced technological methods to maximizing operability, reducing factors that contribute to operator fatigue, and building in effective safety features like ESD design.

## Ergonomic design based on 3D CAD analysis

The microscope body and stand feature a design of precisely curved contours developed through careful 3D CAD analysis. Key ergonomic features include an all-round finish that's smooth to the touch and helps to reduce fatigue in long period observations.

## Convenient front-access operation

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

## Tilting binocular tube for comfortable observations (SZX7)

A comfortable position that minimizes the risk of back strain and muscle tension promotes productivity and quality in routine inspection tasks. The continuously adjustable tilting binocular tube helps the operator to quickly find the most comfortable eyepoint position.

## Precise recall of specific magnification settings via integrated click-stop mechanism (SZX7) or zoom knob stopper (SZ61/SZ51)

Many inspection tasks require the use of the same zoom magnification setting to ensure consistent and comparable

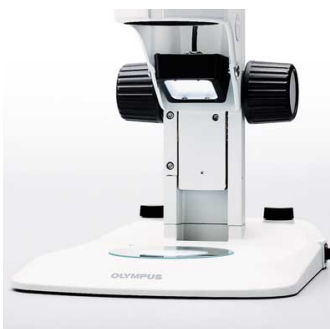
results. The integrated click-stop mechanism provides quick and easy access to this important function. The zoom knob stopper allows the user to choose magnification that can be quickly repeated, and the setting in use is clearly displayed on the front control panel.

## New eyepiece reduces fatigue and excludes dust

This eyepiece features a pupillary aberration control mechanism whereby the image remains visible even if the operator's eyes move. This has been found to lessen operator fatigue in long lasting observations. The unique eyepiece mounting design excludes dust particles and keep the eyepiece firmly in place ensuring clear images and best eyepiece position.

## ESD safety design

The increasing miniaturization and complexity of electronic devices raises the risk of damage by electric shock caused by electrostatic discharge. For this reason, OLYMPUS has taken special measures to design its stereo microscope bodies and main accessories to discharge static electricity from 1000V down to 100V in less than 0.2 seconds, protecting the equipment and preventing damage to samples.



LED Transmitted / Reflected Light Illumination Stand



Tilting trinocular / binocular head (SZX7)



Zoom handle





Click-stop mechanism (SZX7)



Zoom knob stopper (SZ61/SZ51)



Eyepiece lock



Ground wire connection (back side)

# OLYMPUS light solutions maximizes visibility in different tasks

OLYMPUS offers a range of light solutions perfectly tuned to the optical system of the zoom stereo microscope, to maximize the visibility of even minute characteristics.

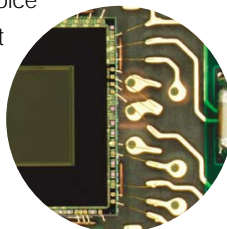
## The new LED integrated reflected/transmitted illumination stand

The world's first universal reflected/transmitted light LED illumination stand brings together all the advantages of LED technology. It allows the simultaneous use of reflected and transmitted illumination, and can alter their respective intensities continuously and separately by means of convenient dials on the stand. The use of super slim, high-brightness LED's successfully integrates transmitted illumination in a very slim base just 25mm thick that allows easy specimen access and manipulation. The complete microscope including LED integrated stand is extremely lightweight, compact and easy to carry.

## Universal reflected illumination systems

Fiber optic illumination systems offer the highest illumination quality and flexibility. OLYMPUS offers a compact, cost effective 22W light source (SZ2-LGB) and a 100W light source (LG-PS2\*) for professional use. Homogeneous illumination can be achieved by a ring light. For special contrast effects on free form 3D shapes, OLYMPUS offers a choice of single and double self supporting spot illumination fiber guides and precisely adjustable flexible fiber guides.

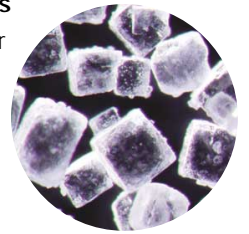
\*An equivalent model may be offered in some areas.



Homogeneous light

## Transmitted light illumination systems

For all transparent materials as well as for background illumination for the inspection of through holes, the OLYMPUS choice of illumination stands ranges from simple brightfield/simple oblique (SZX2-ILLK) up to brightfield/darkfield (SZX2-ILLD) and brightfield/oblique Koehler (SZX2-ILLB) illumination models. Also available is a brightfield/oblique illumination attachment (SZ2-ILA) that can accommodate various light sources including a 100W halogen lamp housing.

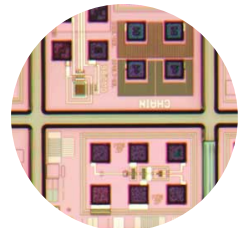


Darkfield light

## Special Illumination Techniques

### • Looking into holes

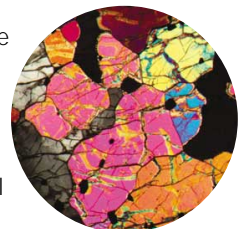
OLYMPUS offers effective coaxial illuminators for the SZX7 (SZX2-ILLC10) and the SZ61/SZ51 (SZ2-ILLC) which direct the light through the microscope's optical axis onto the specimen.



Coaxial light

### • Mirrored Surfaces

The illumination of highly reflective specimens needs special techniques in order to avoid disturbing light reflections. For spot and ring light illuminators as well as for coaxial



Polarized light



Flexible angle of LED light source



Homogeneous illuminations fiber optic systems



Intelligent LED ring illumination



Double spot illuminations fiber optic systems



illuminators, OLYMPUS offers dedicated polarizing equipment which eliminates such light effects (LG-R66PL for ring light illumination).

**Making stress in transparent materials visible**

Also available are simple and advanced transmitted illumination stands with polarizing equipment (SZX2-AN, SZX-POL and SZ-POL2) for the efficient evaluation of tensions in transparent materials like plastic and glass. Their ease of use allows continuous, reliable production control of processes like injection molding.

*The transmitted/reflected integrated LED illumination stand's slim body and easy operation enables quick observations in a comfortable posture.*



Single illuminations fiber optic systems



Transmitted and coaxial illuminations with fiber optic systems



High power fiber optic illumination system

## Digital imaging



SZX7 in combination with DP71 digital camera system

### Ultra-high Resolution Digital Camera DP71

Thanks to its high-speed hardware technology, images equivalent to 12.5 million pixels can be captured in about three seconds. The live images is displayed in 15 fps (frames per second) at maximum. The camera's high sensitivity (ISO1600) clearly detects slight differences of color and microscopic defects.

### Digital Camera DP25

This outstanding, high-resolution 5 megapixel color CCD camera includes accurate color reproduction and advanced color control among a wealth of features. It's also versatile enough for work with all types of samples. Includes image acquisition software analySIS getIT for a PC controller.



DP20 digital camera mounting on the SZ61

### High-speed , Compact Digital Camera DP20

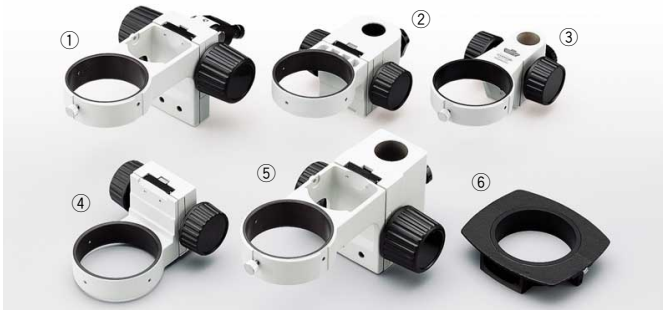
Image display, storage, and simple measurement can be done from a compact, palm-size control unit. The outstanding operation with the functional key layout allows starting up quickly and continuously shoot images at 1 second intervals. The UXGA (1600 x 1200 pixel) compatible monitor enables real-time 15 fps display, and the system is also ideal for high-resolution monitoring applications without a PC.



# Wide range of accessories to meet the needs of every application

## Easy mounting with other equipment (bonder and prober arms)

The SZX7, SZ61 and SZ51 are designed to be integrated into process equipment. OLYMPUS offers various bonder and prober arms for all common brands.



① B & L style bonder arm / SZ2-STB1 ② Bonder arm / SZ2-STB2 ③ Bonder arm / SZ2-STB3  
④ Prober arm / SZ2-STP ⑤ Arm for SZX stand / SZ2-ST5 ⑥ Adapter for B & L bonder arm / SZ-BLAD



## Ergonomic low positioned focus handle and more stage adapters

With the focusing unit SZ2-FO, focus adjustment can be done with the hands resting on the work surface. The action of focusing requires minimal force as the microscope zoom body does not need to be moved. This allows prolonged work on difficult samples without fatigue. There are also more stage adapters including the cup stage SZH-SC which gives the specimen a slant angle till 30 degrees from the level.



## 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.



SZX7+SZ2-STU2



SZ61+SZ2-STU3

## ■ SZX7 specifications

Item	Specifications			
<b>Zoom microscope body</b> SZX-ZB7	Zoom drive: Horizontal knob system Click stop for each zoom magnification: ON-OFF switching possible Zoom ratio values: 7:1 (0.8x to 5.6) Zoom magnification indication: 0.8, 1, 1.25, 1.6, 2, 2.5, 3.2, 4, 5, 5.6 Objective lens mounting: Screw mounting into thread Lead-free materials used			
Aperture iris diaphragm control: The AS unit (SZX-AS) is mountable				
<b>Observation tube</b> SZX-BI45 SZX-TBI SZX2-TTR SZX2-TR30	<b>SZX-BI45</b>	<b>SZX-TBI / SZX2-TTR</b>	<b>SZX2-TR30</b>	
	Binocular tube View inclination angle 45° Lead-free materials used	Tilting binocular (trinocular) tube View tilting angle 5° to 45°	Trinocular tube View inclination angle 30° Light path selection: 2 steps (Binocular 100%, Video 50%/Binocular 50%)	
Interpupillary distance adjustable range: 52 to 76 mm Eyepiece clamping knob provided				
<b>Stand</b> SZ2-ST SZ2-ILST	<b>SZ2-ST</b>		<b>SZ2-ILST</b>	
	Standard stand		LED reflected/transmitted illumination stand	
Frame installation Focusing adjustment Stage plate Light source	Mounting diameter 76mm			
	Knob rotation tension adjustment Focusing stroke 120mm			
	SZ2-SPBW (Black & white) SP-C (Glass clear transparent)		The dedicated glass plate in 100mm dia. included	
	Fiber optic illumination system SZ2-LGB mountable (option) Transmitted light illumination attachment (SZ2-ILA) mountable (option)		Transmitted illumination: LED Reflected illumination: LED Average LED life span: 6000 hrs. Input rating: 100-120V/200-240V~0.15/0.1A, 50/60Hz	
<b>Objective lens</b> <sup>*1</sup> The SZ2-ET auxiliary sleeve is required when the SZ2-ST/SZ2-ILST is used.	<b>Model</b>		<b>Working distance</b>	
	DFPL0.5x-4 <sup>*1</sup> DFPL0.75x-4 DFPLA01x-4 SZX-ACH1x DFPLA01.25x SZX-ACH1.25x-2 DFPL1.5x-4 DFPL2x-4 All objective lenses: lead-free materials		171mm 116mm 81mm 90mm 60mm 68mm 45.5mm 33.5mm	
<b>Eyepieces</b>	"Comfort View" WHSZ series All eyepieces: lead-free materials			
<b>Weight</b>	Configuration 1	4,360g	5,400g	5,200g
	Configuration 2	5,160g	6,200g	6,000g

Configuration 1: SZX-ZB7 + DFPLA01x-4 + individual observation tube + WHSZ10x-H (2) + SZ2-ST

Configuration 2: SZX-ZB7 + DFPLA01x-4 + individual observation tube + WHSZ10x-H (2) + SZ2-ILST

## ■ SZ61/SZ51 specifications

Item	Specifications				
<b>Microscope body</b>	<b>SZ61</b>	<b>SZ61-60</b>	<b>SZ61TR</b>	<b>SZ51</b>	<b>SZ51-60</b>
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°	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 materials used					
<b>Auxiliary objective lens</b>	Mounting by screwing into the thread at the bottom of frame (M48 thread x0.75)				
<b>Eyepiece</b>	"Comfort View" WHSZ series Lead-free materials used				
<b>Stand</b> SZ2-ST SZ2-ILST	<b>SZ2-ST</b>			<b>SZ2-ILST</b>	
	Standard stand			LED reflected/transmitted illumination stand	
Frame installation Focusing adjustment Stage plate Light source	Mounting diameter: 76mm				
	Focusing stroke: 120mm				
	SZ2-SPBW (Black & white for anti-ESD) SP-C (Clear glass plate)			The dedicated glass plate in 100mm dia. included	
	Fiber optic illumination system SZ2-LGB mountable (option) Transmitted light illumination attachment (SZ2-ILA) mountable (option)			Transmitted illumination: LED Reflected illumination: LED Average LED life span: 6000 hrs. Input rating: 100-120V/200-240V ~0.15/0.1A, 50/60Hz	
<b>Weight</b>	Zoom body only	1,300g	1,500g	1,300g	1,300g
	Configuration 3	3,520g	3,720g	3,520g	3,520g

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

## ■ "Comfort View" 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

## ■ Auxiliary objective lens for SZ61/SZ51

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

\*3Upon special order basis

## ■ SZX7 optical performance

Eyepiece	WHSZ10x-H WHSZ10x		WHSZ15x-H		WHSZ20x-H WHSZ20x		WHSZ30x-H	
	22		16		12.5		7	
F.N.	22		16		12.5		7	
Objective lens	Total magnification	Field of view (mm)	Total magnification	Field of view (mm)	Total magnification	Field of view (mm)	Total magnification	Field of view (mm)
0.5x	4x-28x	55-7.8	6x-42x	40.0-5.7	8x-56x	31.3-4.5	12x-84x	17.5-2.5
0.75x	6x-42x	36.7-5.2	9x-63x	26.7-3.8	12x-84x	20.8-3.0	18x-126x	11.7-1.7
1x	8x-56x	27.5-3.9	12x-84x	20.0-2.9	16x-112x	15.6-2.2	24x-168x	8.8-1.3
1.25x	10x-70x	22-3.1	15x-105x	16.0-2.3	20x-140x	12.5-1.8	30x-210x	7.0-1.0
1.5x	12x-84x	18.3-2.6	18x-126x	13.3-1.9	24x-168x	10.4-1.5	36x-252x	5.8-0.83
2x	16x-112x	13.8-1.9	24x-168x	10.0-1.4	32x-224x	7.8-1.1	48x-336x	4.4-0.63

## ■ 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

## ■ Fiber optic illumination system

Item	Specifications					
Type of fiber optic	SZ2-LGR		SZ2-LGDI	SZ2-LGDF	SZ2-LGSI	SZ2-LGSF
Type of illumination method	Homogenous		Double spot	Double spot	Single spot	Single spot
Tube	Type	Flexible	Interlocked (self supporting)	Flexible	Interlocked (self supporting)	Flexible
	Length	800mm	500mm	400mm	500mm	400mm
Fiber	Type	Multi-component LB56N equivalent, 50mm diameter				
	N.A.	0.56				
Bundle diameter	Input end	8mm	5.65mm	5.65mm	4mm	4mm
	Output end	70 x 0.22t mm	4mm	4mm	4mm	4mm
Minimum bending radius	30mm		65mm	30mm	65mm	30mm

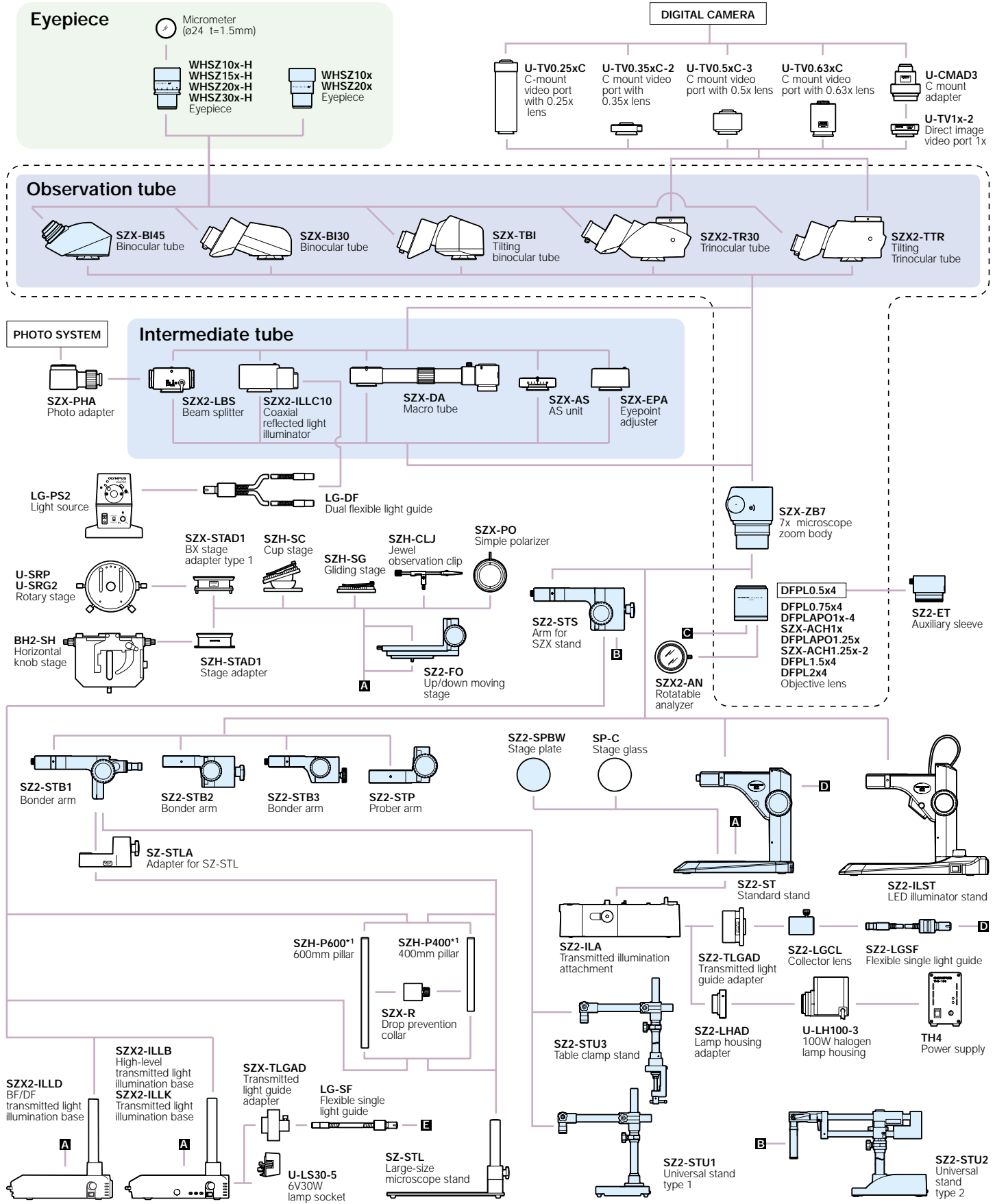
## ■ Compact halogen light source SZ2-LGB

Item	Specifications
Dimensions and weight	90(W) x 153 (H) x 100(D) mm, 600g (AC adapter 200g)
Rated voltage	AC adapter: input/100-240V/50/60Hz, output/ 12VDC2A
Power consumption	22W
Bulb type	12V22W halogen bulb with mirror
Bulb model	12V22WHAL (Philips JCR12V22WA/3)
Average life span of bulb	2000 hours (STEP1, Min.), 580 hours (STEP2, Middle), 100 hours (STEP3, Max.)
Light intensity adjustment	Voltage adjustment (3 steps)
Applicable stand	SZ2-ST

## ■ LED ring illumination SZX2-ILR66

Item	Specifications
Features	4-part LED ring illumination 4-part independent ON/OFF available
Illumination	Operation modes : rotary, mirror ESD compatible, Clean class 1
Light source	17-step light intensity adjustable AC100-240V
Others	SZX-LGR66/SZ-LGR66 adapters are required for SZX7/SZ61 respectively

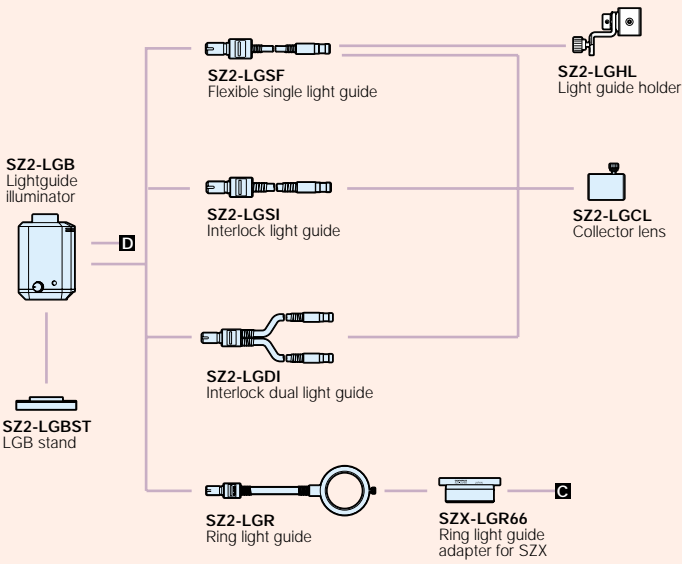
# SZX7 system diagram



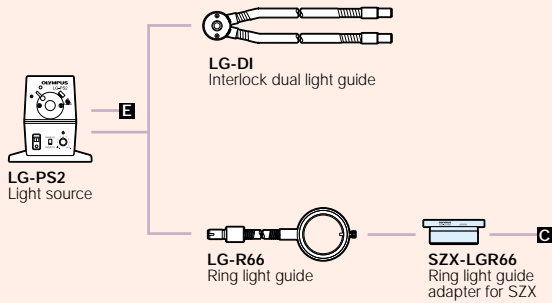
\*1 SZH-P400 and SZH-P600 can be attached to the transmitted light illuminators.



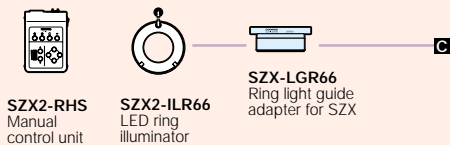
### Compact fiber optics system/SZ2-LGB



### High power fiber optics system/LG-PS2

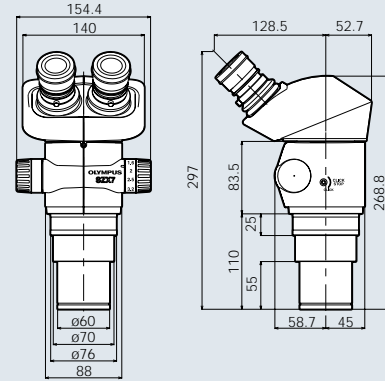


### LED ring light illumination system

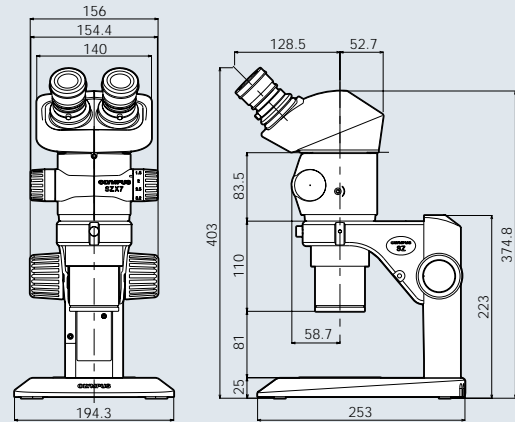


### ■ SZX7 dimensions

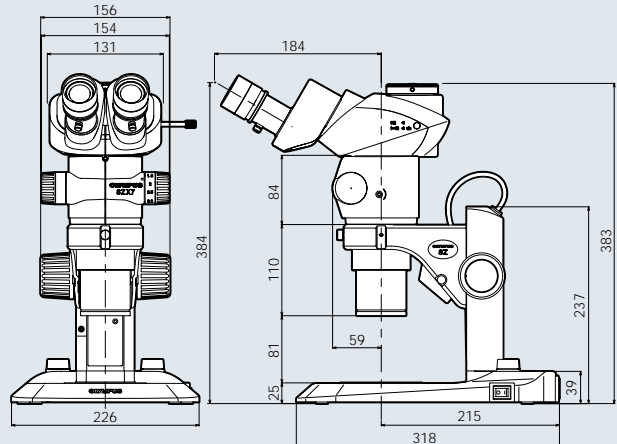
#### SZX7



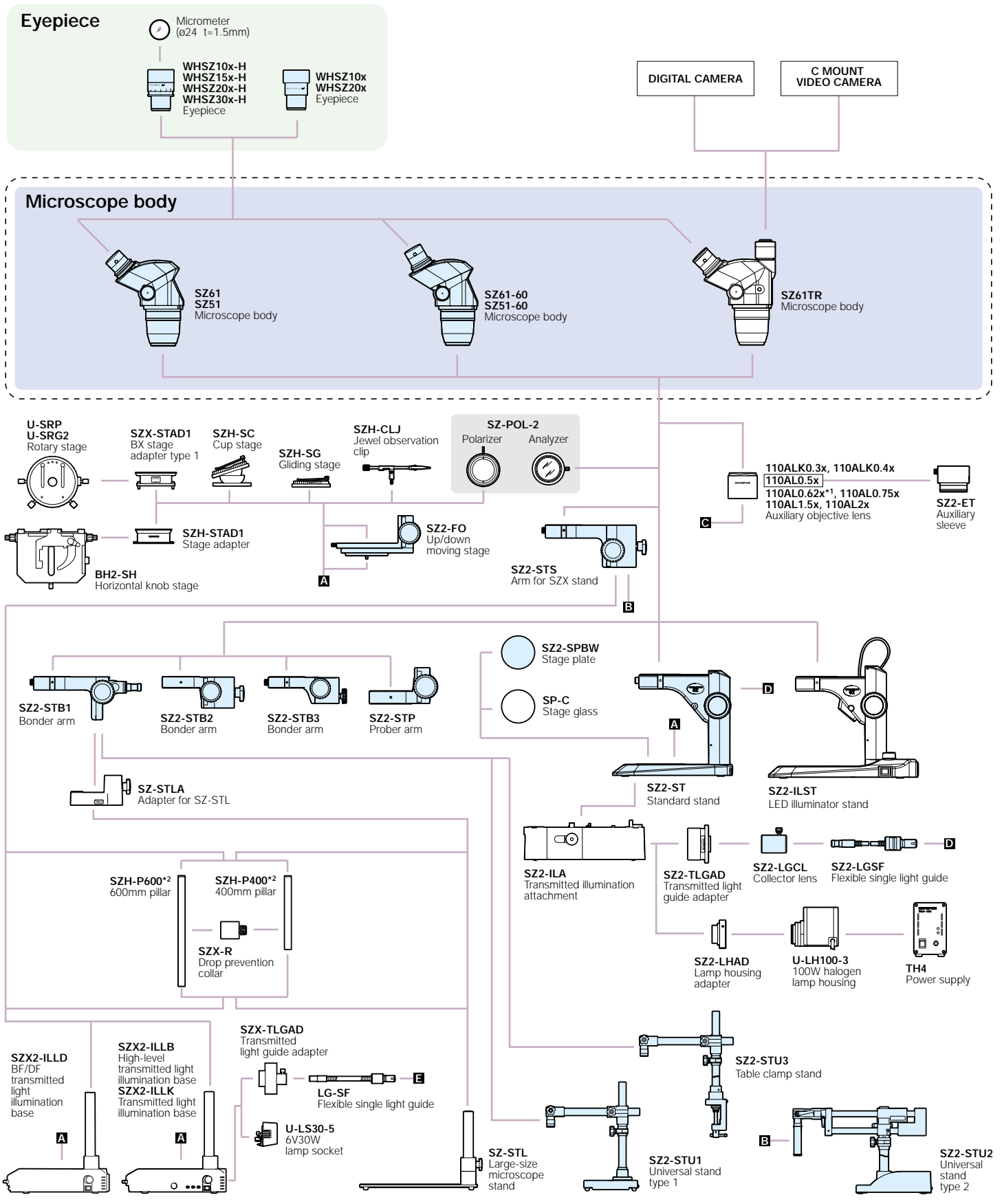
#### SZX7+SZ2-ST



#### SZX7 (SZX2-TR30 configuration) +SZ2-ILST



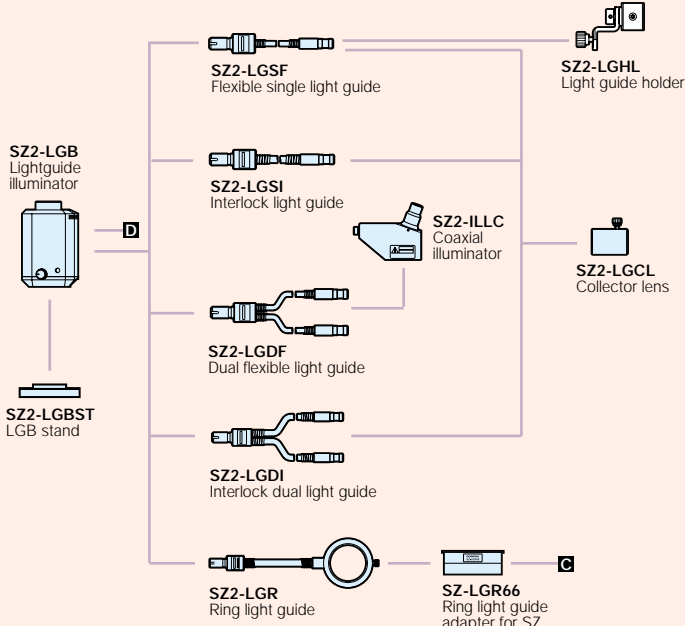
# SZ61/SZ51 system diagram



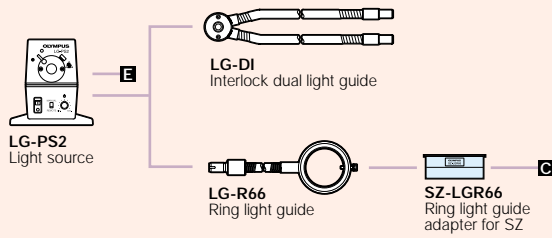
ESD compatible

\*1 Upon special order basis. \*2 SZH-P400 and SZH-P600 can be attached to the transmitted light illuminators.

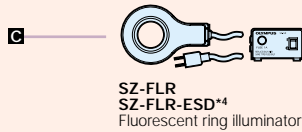
## Compact fiber optics system/SZ2-LGB



## High power fiber optics system/LG-PS2

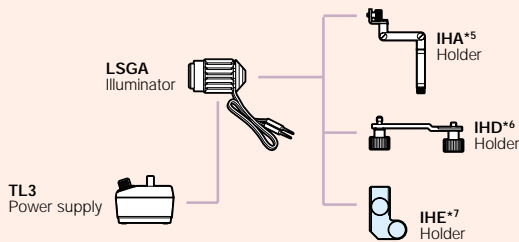


## Fluorescence illumination



\*4 Other systems are offered in some areas.

## Reflected illumination/LSGA



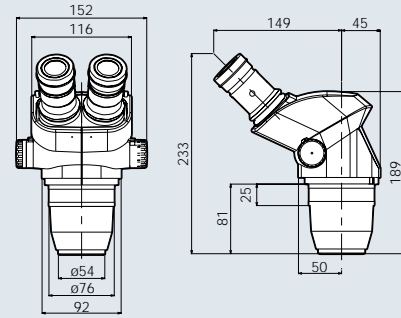
\*5 IHA is mountable to SZ2-ST, SZ2-STB1, SZ2-STB3, SZ2-STB5 and TL-3.

\*6 IHD is mountable to SZ2-STB1 and SZ2-STB5.

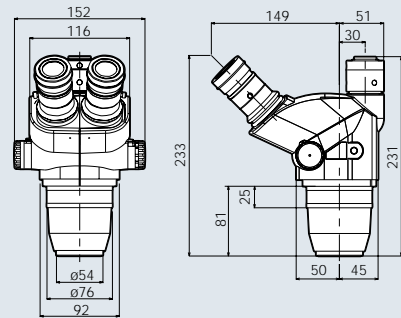
\*7 IHE is mountable to SZ2-ST.

## ■ SZ61/SZ51 dimensions

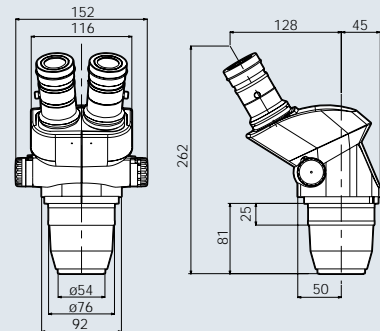
### SZ61/SZ51



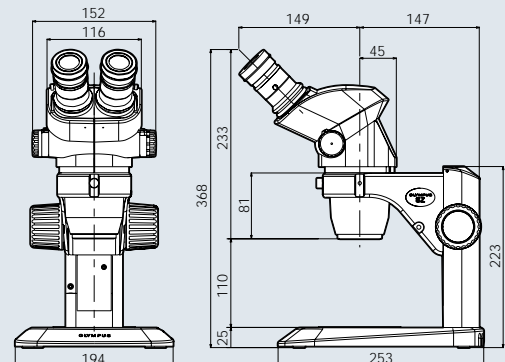
### SZ61TR



### SZ61-60/SZ51-60



### SZ61+SZ2-ST/SZ51+SZ2-ST



•OLYMPUS CORPORATION has obtained ISO9001/ISO14001.

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

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