

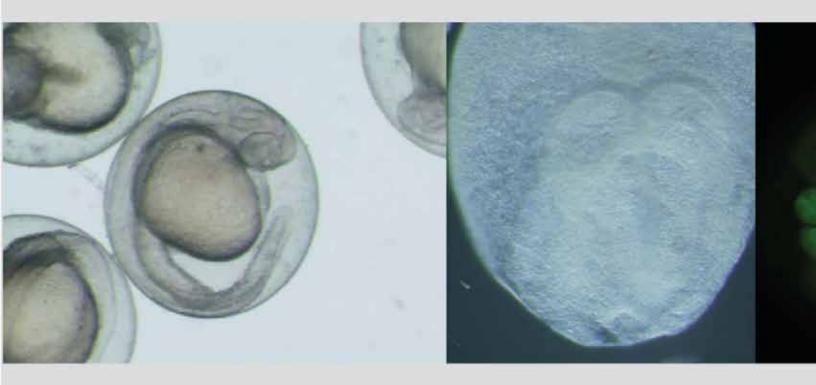
SZX16/SZX10
SZX2







# Reaching a new dimension of microscopy — beyond the imagination.



Olympus expertise raises stereomicroscopes to a new level with the world's highest zoom ratio\* and maximum numerical aperture (NA). Unmatched image clarity and a highly flexible optical system assure operational ease. The SZX2 Research Stereomicroscope System reveals a new world, far beyond expectations.

Cutting-edge biological and medical laboratories are environments that require the most effective imaging and observation of a vast quantity of live specimens. By meeting these needs, the research stereomicroscope system has advanced. Pursuant to its mission of "looking into the world of the unknown", the SZX2 Stereomicroscope Series has been refined to a higher level of quality and performance that redefines the possible for stereomicroscopes.

Superb optical performance and maximum comfort have therefore been realized. Image clarity exceeding that of conventional stereomicroscopes derives from unprecedented high resolution achieved by the highest available NA and a depth of field perceived as deeper from multi-wave length astigmatism-free design that absolutely minimizes astigmatism. SZX2 is ergonomically redesigned especially to reduce fatigue and to provide ultimate ease of use for long-time observation and other tasks. SZX2 opens the door for you to a new world, untouched and unseen.



# SZX16

## P03-P08

# A new dimension in image clarity

Unparalleled sharp viewing is the result of a multi-wavelength, astigmatism- free design that absolutely minimizes aberration and the world's highest NA. From low to high magnification, unprecedented bright and even fluorescence observation is achieved.

### P09-P10

# Comfortable operability

Long working distance (WD) and high NA are leatured. Overall work efficiency is assured, including the illumination base design.

#### P11-P12

# Ergonomic design for working ease

Tilting trinocular tube, with an optimum convergence angle and new slim illumination base, effectively eliminates fatigue resulting from long-time observation and other tasks.

#### P13-P14

# Digital imaging

From brightfield to fluorescence observation, Image acquisition of various specimens is possible at high resolution.

#### P15-P16

# Equipment answering various needs

Accessories for maximizing optical performance and operability include a variety of illumination bases: light guides, and stage plates.

# The world's highest zoom ratio of 1:16.4 is achieved. From low to high magnification, several different observation tasks are available on one microscope.

The SZX16 offers optical performance at the highest global standard. SDF objective lenses with the highest available NA enable microstructural observation that could not be achieved before. And with the world's highest zoom range of 7.0x-115x, this all-in-one microscope answers a wide range of needs related to operation at low magnifications to detailed observation at high magnifications. These outstanding features meet the need for clear observation of transparent specimens of minimal contrast to microstructural viewing. Manipulation of live specimens has never been easier.

# Highest available NA

The SZX16 realizes the highest NA (0.3) among stereomicroscopes with 2x objectives. Optical performance is 30% better than that of comparable products and allows for significantly more image information.



# SDF lineup: six objectives for various uses

The broad lineup of the SZX16 PLAN APO objective series covers several needs with features ranging from long WD objectives for operations requiring wide working space (such as sample acquisition or selection) to high magnification objectives with the world's highest NA for microstructural observation.

Model	WD (mm)	Magnification'		
SDFPLFL0.3X	141	2.1x-34.5x		
SDFPLAPO0.5XPF	70.5	3.5x-57.5x		
SDFPLAPO0.8X	81	5.6x-92x		
SDFPLAPO1XPF	60	7x-115x		
SDFPLAPO1.6XPF	30	11.2x-184x		
SDFPLAPO2XPFC	20	14x-230x		
*Using WHN 10X-H				



SDF Objective Lens Series

# World's highest zoom ratio for several observation tasks

With a zoom range of 7.0x-115x (using SDFPLAPO 1X and WHN10X-H), the SZX16 has the world's highest zoom ratio of 1:16.4. From sample verification and selection at low magnification to microstructure verification at high magnification, seamless observation is available.

# ■ Two objectives combine with revolving nosepiece for 3.5x - 230x zoom

The Parfocal (PF) Series of 0.5x, 1x, 1.6x, and 2x comprises four PF objectives. The revolving nosepiece allows easy switching between two objective lenses and smooth zooming between 3.5x and 230x (using WHN10X-H).



# Multi-wave length, astigmatism-free design for sharp 3D observation. New standards in image clarity begin with this design.

"Multi-wave length astigmatism-free": a new design effectively eliminating image-deforming aberration and enabling remarkably sharp 3D imaging and dramatically enhanced specimen manipulation. Also, with an apochromatic lens system that effectively reduces chromatic aberration, the latest proprietary SZX 16 optical system provides sharp 3D observation images of various specimens.

# Sharp, detailed observation of specimens

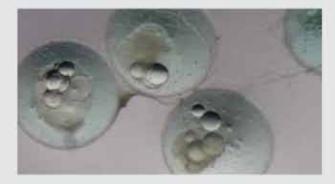
Newly designed SDF objective lenses keep astigmatism to a minimum. This effectively eliminates image deforming at pre- and post-focal plane and thus the depth of field is perceived as deeper than before. These design features enable stress-free use of forceps in the field of view during live sample selection and acquisition. SZX2 puts power into action for long-time observation. When these objectives are combined with the newly developed transmitted light illumination base, clear observation is even possible for transparent specimens where contrast is low. Oversights are thus minimized for specimen selection, dissection, and manipulation

# Non astigmatismfree design: Pre-focal plane Protective limites Protal plane Focal plane Post-focal plane Post-focal plane Post-focal plane For and post-focal plane pre- and post-focal plane focal and the point he use wants to observe. Thus depth of finit is perceived as deeper.

. Depth of field seen in focal plane will vary according to individual differences in users' vision.

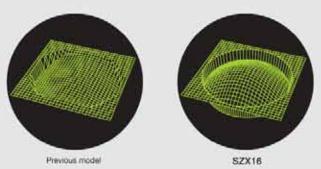
# ■ Integration of apochromatic system

The apochromatic system — integrated into observation tubes, zoom body, and objectives — eliminates chromatic aberration throughout the zoom range and ensure excellent image quality without chromatic blur



# Optical performance with less fatigue

A 360° view of balanced images is made possible by accommodating vertical and horizontal parameters. Discomfort in the eyes and body, as well as stress from prolonged observation or operation, is effectively eliminated



# SZX16: new optics for equally easy handling of thick specimens

Obtaining a lucid visual perspective, such as a clear feel for dimension, is essential for manipulation of thick specimens like eggs or embryos. The latest proprietary SZX16 delivers the images needed for observation of such specimens. 3D observation images from surface to interior are also particularly effective in the dissection and manipulation of live specimens.

# Newly designed SDF objective lenses of the highest NA and Olympus' newly developed near-vertical reflected light illuminator will significantly improve signal intensity and support bright fluorescence observation.

Bright fluorescence observation is essential in recent biological and medical research. Observation of weak fluorescence at low magnification under stereomicroscope has especially been a problem. However, the SZX16 enables even and overwhelmingly bright fluorescence observation from low to high magnifications.

# Highest NA among stereomicroscopes provides extraordinarily bright fluorescence observation

SDF objective lenses of the highest NA dramatically improve fluorescence detection sensitivity. Furthermore, the newly designed near-vertical reflected light illuminator's excitation light paths are independent from the observation paths, allowing for substantially improved excitation light efficiency. These features provide far brighter fluorescence observation than conventional stereomicroscopes at all magnifications. Transmitted light observation for verification of specimen outline is possible even under reflected light fluorescence observation.



Fluorescence illumination only



Fluorescence and transmitted light flumination

# Even and seamless fluorescence observation from low to high magnification

In correspondence with zoom function, the reflected light illuminator provides even illumination from low to high magnification. This will eliminate oversights along the periphery of the field of view during live specimen screening and dramatically improve work efficiency



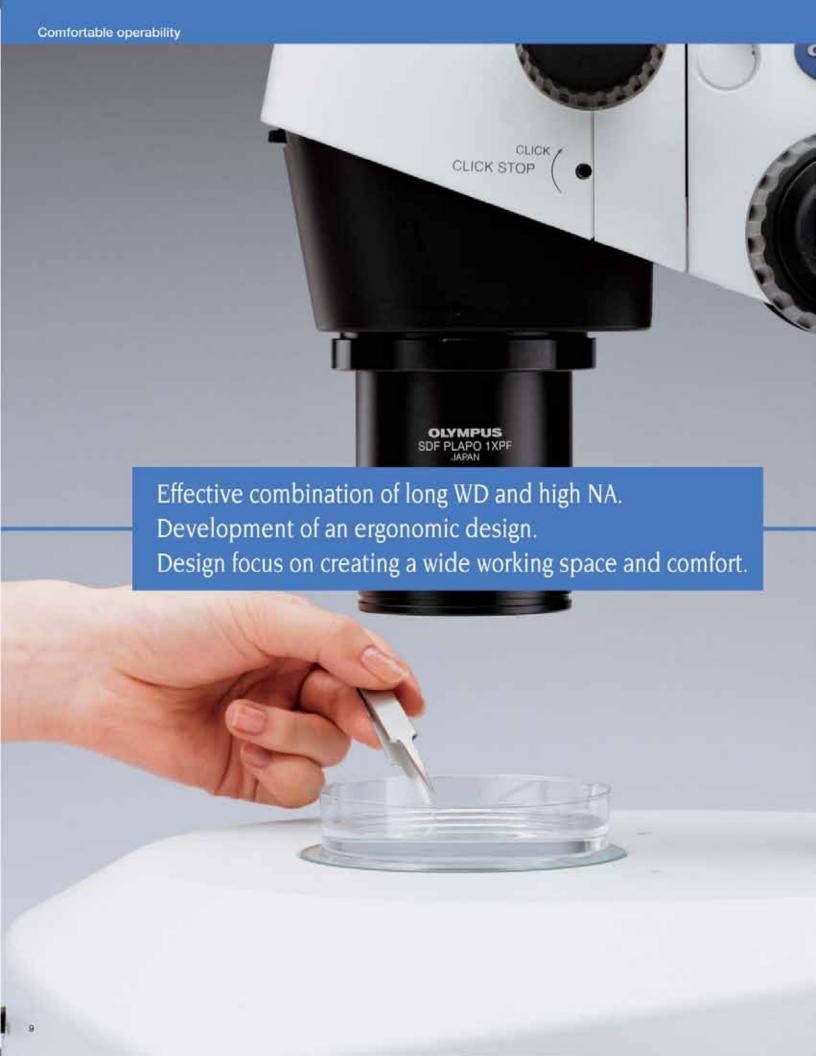
Nine filter units, ranging from UV excitation to RFP, respond to applications using various fluorescent dyes and protein. Olympus High Quality (HQ) filters have an edge steepness and high transmission that efficiently detect the light of fluorescence to enhance and capture brighter fluorescence images in precise detail.



SZX16 reflected light fluorescence illumination stand

Filter unit	Model	Remarks		
For UV excitation	SZX2-FUV	Ex330-385/Em420-		
For BV excitation	SZX2-FBV	Ex400-440/Em475-		
High performance for CFP	SZX2-FCFPHQ	Ex425-445/Em460-510		
For GFP	SZX2-FGFP	Ex460-490/Em510-		
For GFP separation	SZX2-FGFPA	Ex460-495/Em510-550		
High performance for GFP	SZX2-FGFPHQ	Ex460-480/Em495-540		
High performance for YFP	SZX2-FYFPHQ	Ex490-500/Em510-56		
For RFP 1	SZX2-FRFP1	Ex530-550/Em575-		
For RFP 2	SZX2-FRFP2	Ex540-580/Em610-		





# Operability configured as a whole-system characteristic. Design is focused not only on WD and NA, but also on a stage that is slim.

SZX2 responds well to a variety of specimens and operations — from large specimens like mice to small ones like zebra fish, nematode or drosophilia eggs — because of the effective combination of high numerical aperture and wide working space. Moreover, the transmitted light illumination base is newly designed thin (only 41mm) to provide a wide working space and allow various users to work comfortably.

# Wide working space and high NA



# WD60mm and NA0.15 from the 1x objective

The 1x objective has a WD (60mm) that gives the user room to move and an NA (0.15) that meets the needs of advanced research. Also available are 0.8x objectives that have a longer WD of 81mm, which provides not only a larger working space between objective lenses and sample but also a total magnification of 5.6x-92x (using WHN10x-H).



# 2x objectives with ease of access and correction collar

A highly flexible design assures a wide access angle to objectives with the highest NA (0.3) for specimen selection. An additional correction collar can adjust image quality independently of the specimen — a first in stereomicroscopes.

# Ergonomic design for user-friendly base

Offering a wide working space in which users can place several Petri dishes, these illumination bases have an ergonomic, beveled design for users to work comfortably and naturally.

# High-level transmitted light illumination base (SZX2-ILLB)

This unit provides effective contrast from oblique illumination and easily selected "High" and "low" contrast settings. Light volume and color temperature are adjusted by means of built-in filters (LBD/ND). It also has a cooling fan to prevent overheating of the base surface.



# Brightfield/darkfield transmitted light illumination base (SZX2-ILLD)

This base enables darkfield observation under illumination twice as bright as conventional models. Flat and thin specimens like brain tissue slices are vividly displayed on a black background. A cooling fan prevents the illumination base surface from overheating.

#### Transmitted light illumination base (SZX2-ILLK)

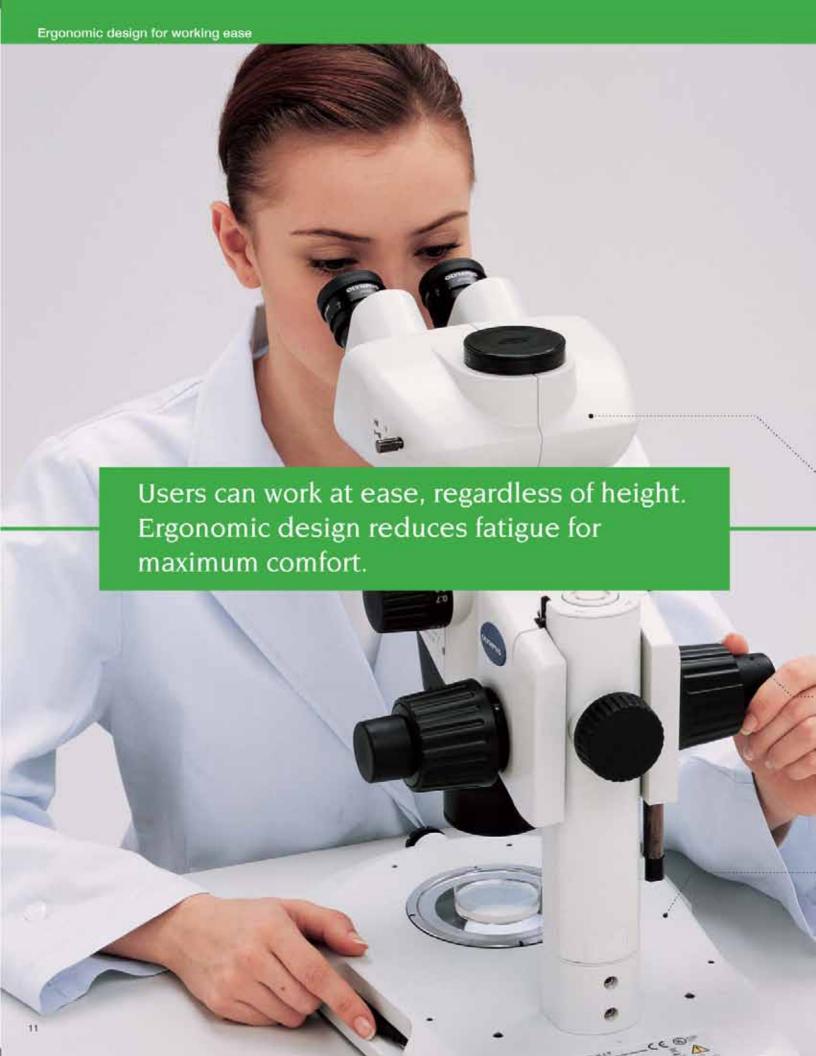
Offering outstanding cost-efficient performance, this illumination base uses oblique illumination to provide highcontrast images of transparent specimens.

#### Slim 41mm LED illumination base

# Slim LED transmitted light illumination base (SZX2-ILLT)

With a slim design of 41mm — approximately half that of conventional models — the SZX16 transmitted light illumination base has a lower height to enable a low eyepoint and easy access to base-mounted samples during observation and operation. The world's first LED 4-position turret enables contrast adjustment between brightfield, oblique, and darkfield illumination with a simple turn. This makes the SZX16 the all-in-one microscope for various samples and observation tasks. Another advantage of LED illumination is keeping down the temperature of the base surface, which is suitable for long-time manipulation of live specimens. Power consumption is about half that of a conventional 30W Halogen light source. A life cycle of over 10,000 hours significantly reduces operation costs.





# Optimal convergence angle plus tilting trinocular tube reduces fatigue.

The SZX2 brings greater working comfort with an observation tube featuring a convergence angle that relieves eyestrain. Moreover, the tilting trinocular tube and slim transmitted light illumination base enable natural posture for increased work efficiency during observation and manipulation tasks of long duration.

# Observation tube with convergence angle relieves eyestrain

In cooperation with opthalmologists, a correlation between stereomicroscope optical systems and eyestrain has been confirmed. Specifically, the angle between right and left lines of vision (convergence angle) is directly related to it. The SZX2 series provides an optimum convergence angle that is designed to allow users to observe in a natural position suited to the eye. This solution effectively eliminates eyestrain during long-time observation.



Observation tube with convergence angle

# ■ Tilting trinocular tube allows for natural posture, reduces fatigue

The tilting trinocular tube easily adjusts to the exact angle desired (5° – 45°). Regardless of desk height, the tilting trinocular tube assures a natural posture during long-time observation. As fatigue and stress are greatly relieved, oversights are avoided and work efficiency is increased.



Tilting trinocular tube

# Designed for efficiency: zoom and focus handles

Close positioning of zoom handle and focus handle enable stress-free, blind operation. Fine adjustment of the focusing handle offers increased sensitivity for easy focusing at high magnification. In addition, the rigid body provides stable observation



# Slim design minimizes fatigue and lowers eyepoint

Illumination bases are designed not only to be easy to use but fatigue-free. The Slim LED transmitted light illumination base, at 41mm, lowers the eyepoint and makes access to specimens easier than ever. The wide stage surface easily accommodates Petri dishes and other specimen containers during observation and manipulation.



Slim LED transmitted light Illumination base



# Microscope digital camera that reproduces true-to-life images

Each microscope digital camera in the SZX2 lineup captures images at high resolution. Olympus stereomicroscopes and digital cameras contribute to cutting-edge research in biology and medicine.

# The high-performance Digital Camera (DP71) provides accurate and detailed image capture

## Digital camera (DP71)

With the DP71, live images are displayed with 1360 x 1024 pixel resolution at a rate of 15 fps. Thanks to this smooth and fast display of live images, users now can perform observation without stress. By shifting the 1.45 mega pixel CCD, the camera delivers extremely high-resolution images equivalent to 12.5 million pixels. The high-speed image processing hardware captures these quality images in 3 seconds. Furthermore, when acquiring monochrome fluorescence images in gray scale, the custom gray-scale mode maintains a dynamic range with full RGB intensity.



DP20 is a stand-alone type without the need of a PC. Featuring highresolution imaging displayed at the high rate of 15fps for smooth, easy-to-view display of live specimen images. Digital zooming function wastes no time in focusing on selected areas. The RGB 24-bit (16.7 million colors) configuration will bring about rich, high-contrast streaming and video images that offer true-to-life colors. From various settings to the scales display, operations are done on the compact control box.





# Motorized zoom and focus unit (SZX-FOA2)

Handling is made easier than ever, even when mounting a heavy unit like a large camera (maximum load of 14kg). Another advantage of this unit is that the user can stand away from the microscope for monitor observation. Manual coarse focusing and fine focusing are both possible when motorized control is engaged. A foot switch controls motorized zooming and focusing, which frees the user's hands for higher concentration on operation, improving overall work efficiency during observation and image capture.

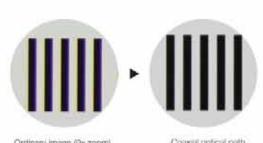


# Vertical observation

The revolving nosepiece matches the objective lens center to the zoom lens optical path for images with reduced aberration. Image shifting from focus change is eliminated for effective 3D rendering by software.



Coaxial light axis



Ordinary image (9x zoom)

Copical optical path image (9x zoom)

# A wide array of accessories to observe various specimens

# Stands and optional units

## Standard stand (SZX2-ST)

This standard reflected light illumination stand supports observation conditions where no transmitted light is needed.

# Universal stand type2 (SZ2-STU2)

Smooth horizontal movement and rotation enable specimen observation from various angles.







# Large stand (SZX2-STL)

This stand provides a large working space to accommodate large specimens.

# CO2 incubator\* (MI-IBCSZXF)

This CO<sub>2</sub> incubator is developed especially for the SZX2. Transparent glass heaters positioned above and below samples will create a stable environment within, equivalent to a CO<sub>2</sub> incubator. Long-time observation of specimens during cultivation is therefore possible. The glass heater above the chamber dries off condensation for a vivid imaging environment.



# Large stage plate (SZX-CL)

Compatible with the SZX2 only,

temperature range that may be set

from room temperature to 50° to

Thermo plate\*
(MATS-55SZX2A/

MATS-55SZX2B)

this thermo plate has a

keep the specimen warm.

This stage plate attaches to the top of a transmitted light illumination base and can be detached for easy sterilization and other antiseptic procedures





<sup>\*</sup> Due to be launched in the summer of 2006.

# Transmitted/Reflected light illumination base

# Transmitted light guide adaptor (SZX-TLGAD)/ Light guide (LG-SF)

As the light guide LG-SF power source is mounted away from the transmitted light illumination base, increases in illuminator surface temperature are prevented.



# Dual inter-lock light guide (LG-DI)

This light guide can be positioned as the observer likes for bright, even illumination - especially effective when high-contrast images are required. The spot lens HLL301\* can be mounted.



# Coaxial illuminator (SZX2-ILLC16/SZX2-ILLC10\*)

Used with the dual flexible light guide LG-DF\*, this illuminator provides bright, even illumination without the need for centering adjustments to the lamp.



\* Compatible with the SZX10 only

# Dual combination light guide (LG-DFI)

The SZX2 light guide can be mounted directly onto the focus drive, keeping the observation position properly illuminated even when focus is adjusted or when the specimen is exchanged.



# Ring light guide (LG-R66)

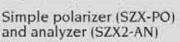
With its ø66mm diameter mount, this ring light illuminator has been specially developed for stereomicroscope compatibility. When mounted with ring light adapter SZX-LGR66\*/LGR66, it provides bright, uniformly lit images especially avoiding glaring reflections or obscuring shadows.



# Accessories

# Light beam splitter (SZX2-LBS)

The adapter allows a digital camera or other imaging unit to be attached on both sides of the SZX2-LBS body. The light path to the camera port is switched between 100% and 50% light. The 100% light path to the camera port enables image capturing of dark specimens.



This simple polarizer should be used with a transmitted light illumination base. It provides double-refractile image observation of such specimens as sea urchin larvae. Analyzer should be attached on the tip of objectives.





# SZX10



# SZX10: the highly versatile research stereomicroscope This outstanding model assures cost-effective performance and faithful reproduction of images.

# ■ Distortion-free design provides accurate observation of images

Distortion-free design that has been constantly improved by Olympus over the years minimizes embossment of image plane and provides accurate images.

# Maximum depth of field from the finest built-in AS zoom body

Closing the aperture increases the depth of field

# A wide array of accessories upgrades the system for various observation and documentation methods

The SZX10 responds to a wide range of accessories and achieves high performance during image capture and monitor observation. This versatile system can be used for a variety of applications.



Eyepoint adjuster (SZX-EPA) Allows users to assume a natural posture during observation.



Side-by-side discussion tube (SZX-SDO)
Suitable for teaching because primary
and secondary observers are seated
beside one another.



Drawing attachment (SZX-DA)
Enables users to accurately draw the specimen for scientific study or illustration - a traditional alternative to photomicrography. The accessory can be mounted on either side of the microscope, depending on preference.



Binocular tubes (SZX-B130/TBI/B145)

These binocular tubes allow for variable eye points. Users will find observation can be done in a natural posture, thanks to the tilting head with an incline angle varying between 5° and 45°.



Coaxial fluorescence illumination stand (SZX-RFA)

This fluorescence unit allows observation of fluorescent proteins introduced into living cells.

## Discussion tube (SZX-DO)

Face-to-face, discussion-style intermediate tube allows primary and secondary observers to sit opposite one another during specimen observation. The secondary observer can support primary observer more effectively in their tasks.

Item	Specifications							
		S2X16		S2X10				
Zoom microscope body	Zoom ratio: 16.4 (0.7x-11 Magnification indication		2 5/3.2/4/5/6.3/8/10/11.5	Zoom ratio: 10 (0.63x-6.3x) Magnification indication: 0.63/0.8/1/1.25/1.6/2/2.5/3.2/4/5/6.3				
	Zoom variable magnification system with parallel optical axis Zoom drive system: Horizontal handle Click-stop for various zoom positions incorporated							
	Built-in AS zoom body							
	Objective mounting screw mount							
		For SZX-ZB16			For SZX-ZB10			
	Objectives	N.A.	W.D. (mm)	Objectives	N.A.	W.D. (mm)		
	SDFPLFL0 3X	0.045	141	DEPL0.5X-4	0.05	171		
	5DFPLAPO0.5XPF	.0.075	70.5	DEPLO 75X-4	0.075	116		
Objective	SDFPLAPO0.8X	0.12	81	DFPLAPO1X-4	0.1	81		
Colective	SDFPLAPOIXPF	0.15	60	SZX-ACHIX	0.1	90		
	SDFPLAPOL6XPE	0.24	30	DEPLAPOL25X	0.125	60		
	SDFPLAPO2XPFC	0.3	20	SZX-ACH1 25X-2	0.125	68		
				DFPL1.5X-4	0.15	45.5		
				DFPL2X-4	0.2	33.5		
Eyepiece	WHN10X-H FN 22 WHSZ15X-H FN 16 WHSZ20X-H FN 12-5 WHSZ30X-H FN 7			WHSZ10X-H FN 22 WHSZ15X-H FN 16 WHSZ20X-H FN 12-5 WHSZ30X-H FN 7				
	SZX2-TTR/SZX2-TTRPT Tilting trinocular tube Convergence angle. Tilting angle 5'-45', 2 steps optical path selectable (TTR observation: straight port = 1000, 50:50) (TTRPT observation: straight port = 1000, 0:1) interpupillary distance adjustment: 52-76mm							
Observation tube	SZX2-TR30/SZX2-TR30PT 30 degree trinocular tube Convergence angle. Tilting angle 30°, 2 steps optical path selectable (TR30 observation; straight port = 100.0, 50.50) (TR30PT observation; straight port = 100.0, 0.1) interpupillary distance adjustment: 52-76mm.							
				SZX-8000 80' brocular tube T	iting angle 30° Interpupil	lary distance adjustment 31-		
				SZX-8/45 45' binocular tube T	iting angle 45" interpupil	lary distance adjustment. 52-		
				SZX-TBI: tilting binocular tube Tilting angle:5-45" Interpupillary distance adjustment: 51-76				
	SZX2-FO: Focusing unit / focus: rack and pinion with roller guide (with torque adjustment ring for coarse focusing), optional counter balance coarse handle stroke: 80mm; coarse handle stroke per rotation: 21mm; Load capacity: 0-10.0kg							
	SZX2-FOF. Fine focusing unit / focus rack and pinion with roller guide (with torque adjustment ring for coarse focusing), coarse and fine coaxial handle, built-in counter balance, coarse handle stroke. 80mm, coarse handle stroke per rotation. 36.8mm, fine handle stroke 80mm, fine handle stroke per rotation. 0.77mm, load capacity. 2.7-15.0kg							
Focusing assembly	coarse and fine coaxial h	52X2-FOF11 Fine focusing unit for heavy loading / focus rack and pinion with roller guide (with torque adjustment ring for coarse focusin coarse and fine coaxial handle, built-in gas spring counter balance, coarse handle stroke, 80mm, coarse handle stroke per rotation, 36.8n fine handle stroke, 80mm, fine handle stroke per rotation, 0.77mm; load capacity, 8.9-25.0kg						
	POSSA 40 AGAMORINE SAGRA STANDARD			r guide (with torque adju ec fine 0.3mm/sec load ca		rse focusing).		
20010	SZX-ST Standard stand / P	illar height: 270mm, b	ase dimension: 284(Wix33)	HD)x31(Himm, Stage clips as	e mountable, with sta	ge adapter fixing screw h		
Stands	SZX2-STL. Large stand / Pillar height: 400mm, base dimension: 400(W)x350(D)x28(H)mm, Stage clips are mountable, with stage adapter fixing screw holes							
	SAAC-SEL Large stand FPHar height. 400mm, base dimension: 400twix/390Dht28(Himm, Stage clips are mountable, with stage adapter fixing screw hole							

Transmitted illumination base specifications

Item	Specifications								
Hem	SZX2-ILLT	SZX2-ILLB	SZX2-II.I.K	SZX2-ILLD					
Light source	LED (Average service life: Over 10,000 hrs by rated un&	730W Halogen 6V30WHAL PHILIPS	5761 (average lamp service	life approx 100 hours by rate use )					
Light intensity adjustment		Continuously variable system							
Effective Illuminated area	Brightfield of Imm Darkfield / Oblique: e75mm	o40m	Brightfield 640mm Darkfield 635mm						
Built-in filter		LBD, ND6, ND25 one for each		LBD (bright field only)					
Add-on fifter			o45LBD filter						
Illumination mode	Brightfield Illumination Oblique illumination Darkfield Illumination	Illumination Oblique illumination Oblique illumination		Brightfield Illumination Darklield Illumination					
Contrast selection		2-step selection of High and Low		_					
Cooling Ian	=	Built-in							
The height of stage (from desk surface)	41mm								
Pillar height		270mm							
Weight	Approx. 3.7kg	Approx. 5.0kg Approx. 4.6kg		Approx. 5.4kg					
Power source	AC adaptor		Built-in trance power unit						

#### Reflected light illuminators specifications

Type	Ring light guide LG-R66	Dual ring light guide LG-DFI/DI	Coaxial illuminator SZX2-ILLC16/10
Features	Bright, uniformly lit images without glaring reflections or obscuring shadows	Flexible illumination for any angle and position	Bright high contrast coaxial illumination Ellective for observing structure, such as imperfections on metal surfaces, patterns on IC or LCD
Illumination specification	Minimum WD 30mm Mount diameter 66mm Flexible part 1000mm Attachment adapter* SZX-LGR66 ***Institute required for EXXI-LGR66 ***Institute required for EXXI-LGR66 **Institute required for EXXI-LGR66	LG-DFI Flexible part 900mm Inter-lock part 500mm LG-DI Inter-lock part 500mm	Magnification factor: 1.5x Light guide: LG-DF Flexible part 1000mm 1/4 wave plate included
Light source specifications	Type LG-PS2 Functions: Light intensity control Power consumption: 150W (350VA Rated voltage: 100-120V/220-240V Dimensions: 120(H)x(120)H)x(25)(C	) 50/60Hz	(DC0-5V), mechanical adjustment function
Option	LC-R66PL: Polarizer/analyzer set for LG-R66	HILL301 spot lens LG-FAD e25 filter adapter	

# Reflected light fluorescence illuminator

Type	Reflected light fluorescence illuminator/Fine focusing unit SZX2-RFA16	Reflected light fluorescence illuminator SZX-RFA
Illumination method	Near vertical reflected light fluorescence illumination which is corresponded to microscope zoom function. Zooming of illuminator independent to zoom function of microscope body is possible.	Coaxial illumination
Filter turret	Five-position turret  Maximum 5 sets of excitation/emission filter sliders are attachable.  Comes with shutter that prevents flash-light caused by switching.	Four-step slide switch Maximum 3 mirror units are attachable Comes with shutter that prevents flash-light caused by switching
Filter holder slider	Three-step switch by shutter and two holes. ND filter can be attached at the holes.	
Filter slider	One excitation balancer can be attached.	
Focusing assembly  Focusing unit / focus. rack and pinion with roller guide (with torque adjustment ring for coarse focusing), coarse and fine coaxial handle, built-in counter balance, coarse handle stroke per rotation. 3 77mm, load capacity. 2 7-15 0kg		
Light source specifications	100W microury lamp	

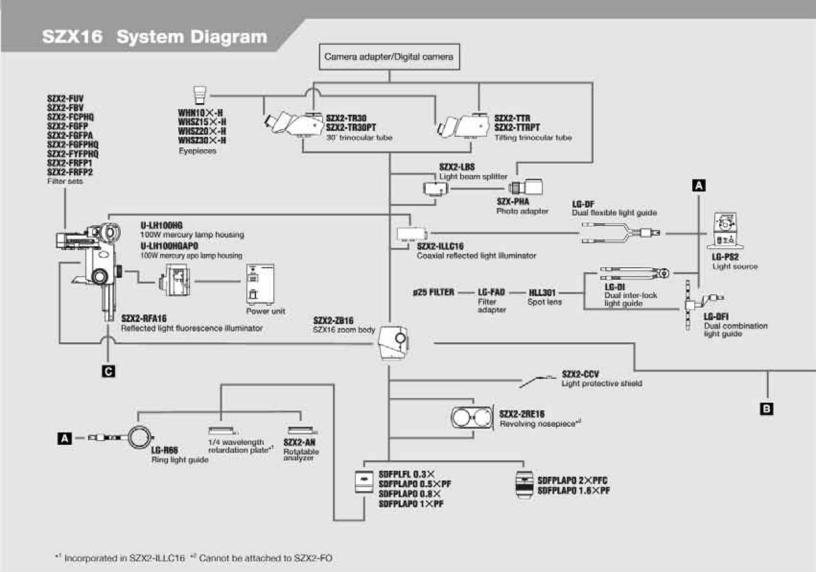
Total magnifications and actual field diameters of SZX2-ZB16

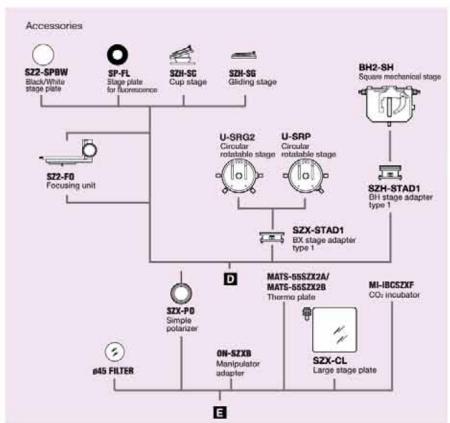
Objective	Eyepiece							
	WHI	WHN10X-H		WHSZ15X-H		WHSZ20X-H		H-X003
	total mag.	field diameter (mm)	total mag	field diameter (mm)	total mag	lield diameter (mm)	total mag	field diameter (man
SDFPLFL0.3X	2.1x-34.5x	o104.8-o6.4	3.2x-51.8x	076.2-04.6	4.2x-69x	059.5-03.6	6.3x-103.5x	033.3-02.0
SDFPLFL0.5XPF	3.5x-57.5x	062.9-03.8	5 3x-86 3x	n45 7-a2.8	7x-115s	n35.7-n2.2	10 5x-172 5x	o20.0-o1.2
SDFPLAPO0.8X	5.6xx92x	039-3-02-4	8.4x+138x	o28.0-o1.7	11:2s-184x	o22.3-o1.4	16.8x-276x	012.5-00.8
SDFPLAPOTXPF	7x-115x	031 4-01 9	10.5x-172.5x	622.9-01.4	14x-230x	017.9-01.1	21x-345x	810.0-80.6
5DFPLAPO1.6XPF	11.2x-184x	019.6-01.2*	16.8x-276x	014.3-00.9	22.4x-368x	0112-007	33.6x-552x	o6.3-o0.4
SDFPLAPO2XPFC	14x-230x	ø15.7-ø1*	21x-345x	011.4-00.7*	28x-460x	68 9-60 5	42x-690x	050-003

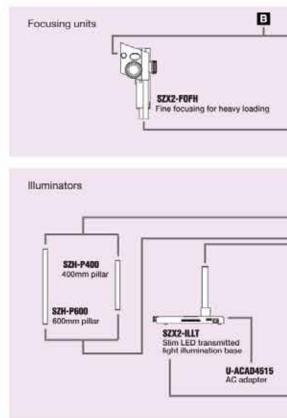
Some vignetting may occur from optical characteristics. This occurs in observations at low magnification

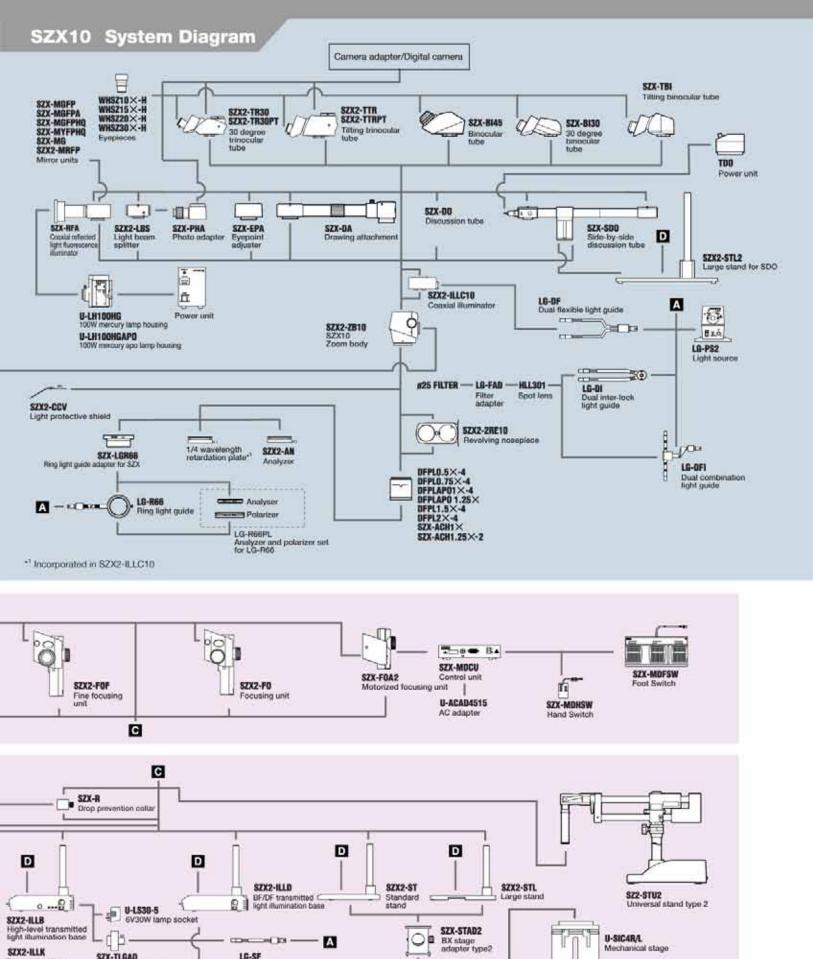
# Total magnifications and actual field diameters of SZX2-ZB10

Objective	Eyepiece								
	WHSZ10X-H		WHSZ15X-H		WH5Z20X-H		WHSZ30X-H		
	total mag	field diameter (mm)	total mag	lield diameter (mm)	total mag	field diameter (mm)	total mag	Tield diameter imm	
DFPL0.5X-4	3.2x-31.5x	069.8-07.0	4.7x-47.3x	a50.8-a5.1	6.3x-63x	039.7-04	9.5x-94.5x	022 2-02 2	
DFPL0 75X-4	4 7x-47 3x	046.6-04.7	7.1x-70.9x	033.9-03.4	9 4x 94 5x	s/26/5-s/2/6	14.2x-141.8x	014.8-01.5	
DEPLAPO1X-4 SZX-ACH1X	6.3x-63x	634 9-63.5	9 5x-94 5x	025.4-02.5	12 nx-12nx	o19 8-o2	18 9x-189x	011.1-01.1	
DEPLAPOT 25X SZX-ACHT 25X-2	7.9x-78.9x	o27.9-o2.8	11.8x-118.1x	o20.3-o2	15.8x-157.5x	015.9-01.6	23 6x-236 3x	o8.9-o0.9	
DEPLI 5X-4	9.5x-94.5x	e23 3-e2 3	14.2x-141 8x	016.9-01.7	18.9x-189x	a132-a13	28 4x-283 5x	o7.4-o0.7	
DEPL2X-4	12.6x-126x	0175-017	18.9x-189x	012 7-01 3	25 2x-252x	099-01	37.8x-178x	05-6-00-6	









SZX2-ILLK

Transmitted light

illumination base

SZX-TLGAD

SZX2-DMP Dumper for SZX2 illumination base

Transmitted light guide adapter unit

LG-SF

Light guide

Images are courtesy of the following institutions:

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Olympus has acquired ISO9001/ISO14001 certification for its quality/environmental management systems. In line with this qualification, newly developed SZX16/SZX10 products are manufactured without lead, hexavalent chromium, or cadmium. Olympus products contribute to society through their environmentally friendly designs.

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



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