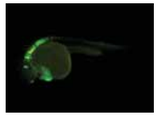
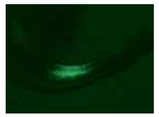
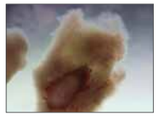
Images are courtesy of the following institutions



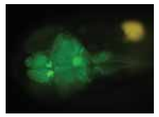
RIKEN Brain Science Institute, Laboratory for Developmental Gene Regulation (page 1, left; page 3, lower left; pages 5, 7, & 8, lower right).



RIKEN Center for Developmental Biology, Laboratory for Cell Asymmetry, Dr. Ayano Kawaguchi (page 3, lower right).



Graduate School of Medicine and Faculty of Medicine, the University of Tokyo, Department of Cell Biology and Anatomy, Dr. Yasushi Okamoto (page 1, right; page 3, top; page 5, top right; page 7, top right).



National Institute of Advanced Industrial Science and Technology, Research Institute for Cell Engineering, Neuronics Research Group (page 1, right).

ECO-PRODUCTS

SZX16, SZX10 are environmental conscious products according to OLYMPUS's own standards.

- **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 web site for details.**
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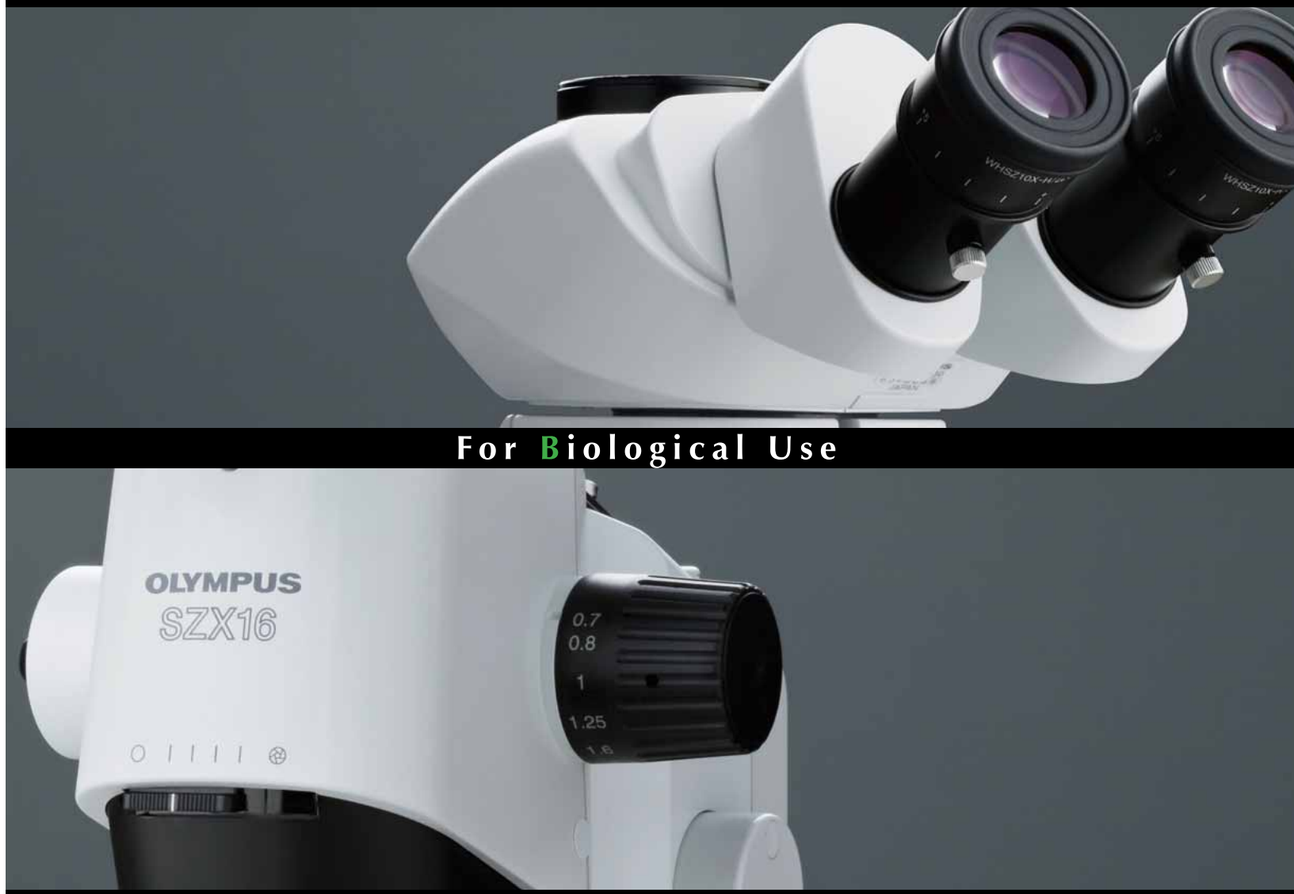
Research Stereomicroscope System

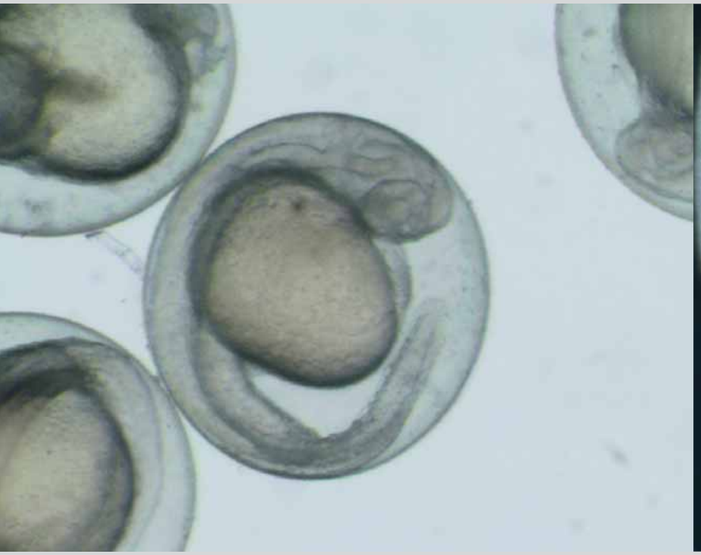
SZX16 / SZX10

SZX2 Series



For Biological Use

Reaching a new dimension of microscopy — beyond the imagination.



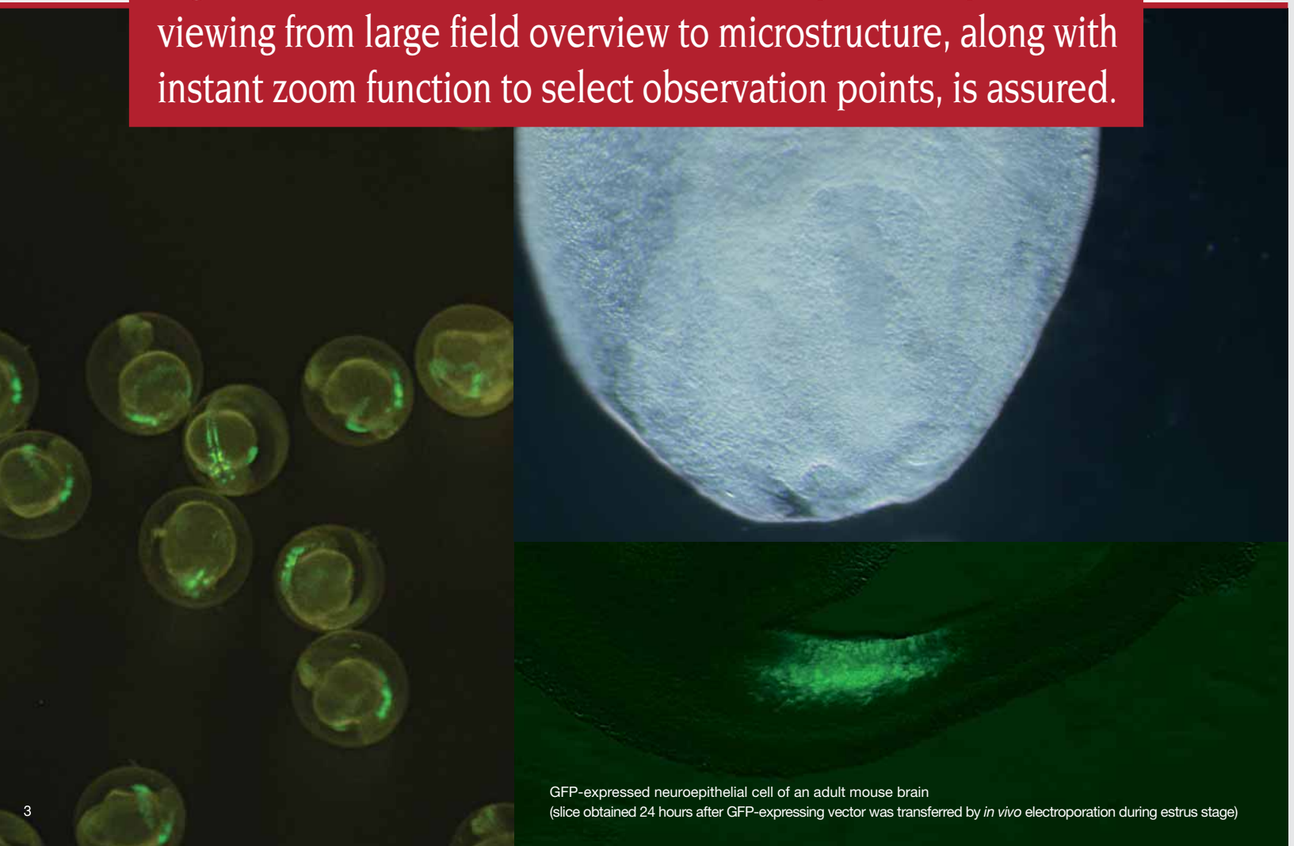
Olympus stereomicroscopes are the ideal solution for leading-edge microscopy applications, offering an exceptionally wide zoom ratio and extremely high numerical aperture (NA). Unmatched image clarity and a highly flexible optical system assure operational ease. The SZX2 Research Stereomicroscope System 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.

Thanks to the exceptionally high resolution, resulting from the high NA and multi-wave length, astigmatism-free design, the SZX2 provides a perceptually deeper depth of field. 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 before now.

SZX16

New Olympus SDF objective lenses boast an exceptionally high NA and a resolution of 900 LP/mm. Optimum specimen viewing from large field overview to microstructure, along with instant zoom function to select observation points, is assured.



GFP-expressed neuroepithelial cell of an adult mouse brain
(slice obtained 24 hours after GFP-expressing vector was transferred by *in vivo* electroporation during estrus stage)

A new dimension in image clarity

Achieve unsurpassed viewing ease offered by the wide 1:16.4 zoom ratio. From low to high magnification, several different observation tasks are available on one microscope.

The SZX16 assures peak optical performance for nearly any application. Olympus SDF objective lenses have an exceptionally high NA, providing unrivaled detail and clarity when viewing microstructures. And with an extra-wide 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.

Extremely high NA

The SZX16 has an outstanding NA rating with 2x objective lenses. Optical performance is 30% better than that of comparable products and allows for significantly more image information.

Conventional model

SZX16 (with SDFPLAPO2×PFC)

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 W.D. objectives for operations requiring a wide working space (such as sample acquisition or selection) to high magnification objectives with high NA for microstructural observation.

Model	W.D. (mm)	Magnification*
SDFPLFL0.3×	141	2.1x-34.5x
SDFPLAPO0.5×PF	70.5	3.5x-57.5x
SDFPLAPO0.8×	81	5.6x-92x
SDFPLAPO1×PF	60	7x-115x
SDFPLAPO1.6×PF	30	11.2x-184x
SDFPLAPO2×PFC	20	14x-230x

*Using WHN10×-H

SDF Objective Lens Series

Wide-angle zoom action for versatile operation

The SZX16 boasts a zoom range of 7.0x – 115x*. From sample verification and selection at low magnification to microstructure verification at high magnification, seamless observation is available.

* When using the SDFPLAPO 1× and WHN10×-H

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 WHN10×-H).

Unprecedented depth and sharp images dramatically enhance efficiency for a variety of tasks including specimen manipulation.

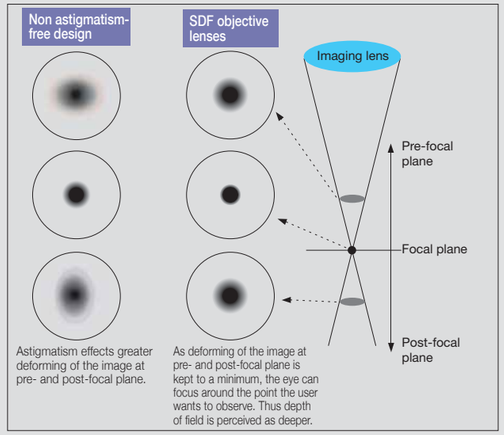
A new dimension in image clarity

New standards in image clarity begin with a multi-wave length, astigmatism-free 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 SZX16 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.



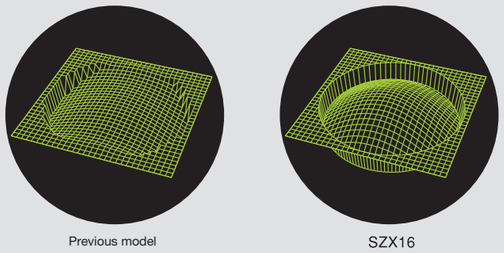
• Depth of field seen in focal plane will vary according to individual differences in users' vision.

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.

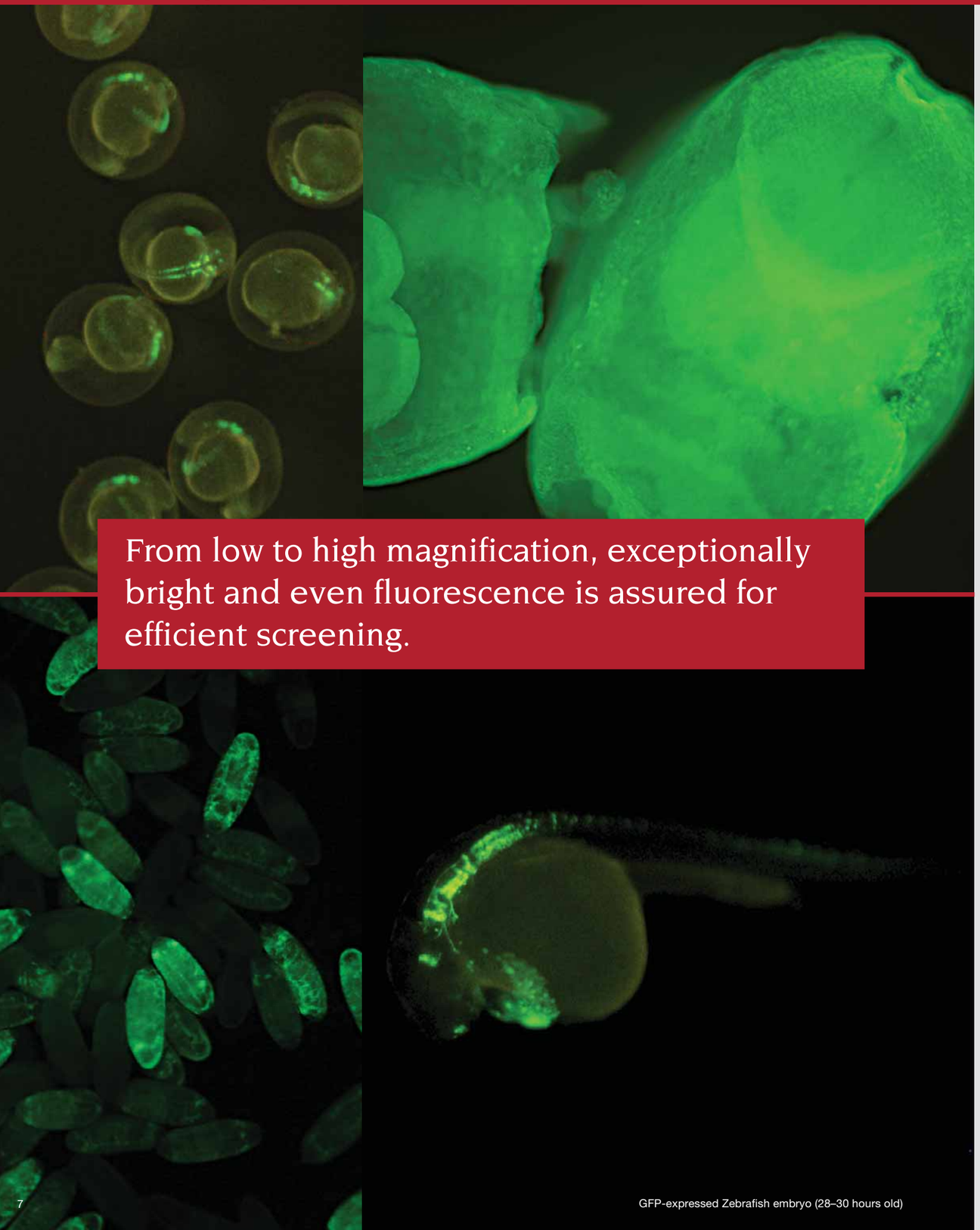
Optical performance with less fatigue

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 long-time 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.



From low to high magnification, exceptionally bright and even fluorescence is assured for efficient screening.

GFP-expressed Zebrafish embryo (28–30 hours old)

A new dimension in image clarity

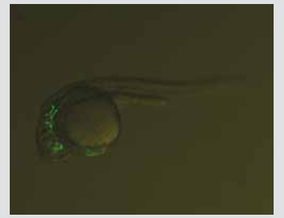
The newly designed SDF objective lenses with high NA and Olympus' newly developed near-vertical reflected light illuminator will significantly improve signal intensity and support bright fluorescence observation.

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

Exceptionally high NA for extraordinarily bright fluorescence observation

The outstanding NA characteristics of SDF lenses dramatically improve fluorescence 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 illumination

Even and seamless fluorescence observation from low to high magnification

The near-vertical reflected light illuminator works in conjunction with the zoom function to provide even illumination over the entire magnification range. Motorized focus and zoom units make for easy viewing using a hand switch.

Five-position turret with nine-filter selection

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

SZX16 reflected light fluorescence illumination with motorized focus 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/Em510–560
For RFP 1	SZX2-FRFP1	Ex530–550/Em575–
For RFP 2	SZX2-FRFP2	Ex540–580/Em610–

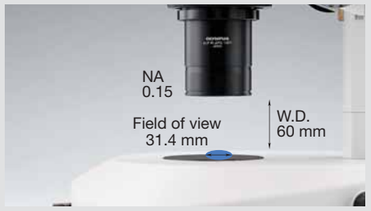
SZX16 Fluorescent filter unit

Effective combination of long W.D. and high NA.
Development of an ergonomic design.
Design focus on creating a wide working space and comfort.

Operability is configured as a whole-system characteristic. Design is focused not only on W.D. 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 41 mm) to provide a wide working space and allow various users to work comfortably.

Wide working space and high NA



W.D. 60 mm and NA 0.15 from the 1x objective

The 1x objective has a W.D. (60 mm) 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 W.D. of 81 mm, which provides not only a larger working space between objective lenses and sample but also a total magnification of 5.6x-92x (using WHN10×-H).

2x objectives with ease of access and correction collar

The intelligent design allows easy access to objectives and delivers a high NA of 0.3 for easy selection of specimens. 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 high-contrast images of transparent specimens.

Slim 41 mm LED illumination base

Slim LED transmitted light illumination base (SZX2-ILLT)

With a slim design of 41 mm — 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 LED four-position turret allows control of 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 30 W Halogen light source. A life cycle of over 10,000 hours significantly reduces operation costs.

Users can work at ease, regardless of height. Ergonomic design reduces fatigue for maximum comfort.

Ergonomic design for working ease

An 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.

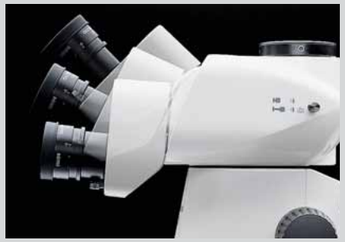
Observation tube with convergence angle relieves eyestrain

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 41 mm, 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

From brightfield to fluorescence observation, several different specimens can be viewed at a high resolution recognized as leading the digital imaging world.

A 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 cameras provide accurate and detailed image capture (DP73/DP21)

Digital camera (DP73)

The DP73 displays uncompressed high-definition images (1600 x 1200 pixels) live at a rate of 15 frames per second. Microstructures and fine lines that are hard to distinguish at low magnification are displayed clearly and distinctly. With Olympus' new Fine-detail Processing that uses algorithms to enhance resolution, the DP73 can acquire clear images with fewer artifacts like pseudo-colors and moiré as tend to hamper observation of microstructures at low magnification. With its algorithms to correct for pixel-shift photobleaching, the DP73 can also image fluorescence at an unparalleled maximum resolution of 17.28 megapixels and avoid block noise.

Digital camera (DP21)

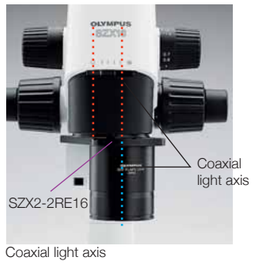
DP21 is a stand-alone type without the need of a PC. Featuring high-resolution imaging displayed at the high rate of 15 fps for smooth, easy-to-view display of live specimen images. The RGB 24-bit (16.7 million colors) configuration will bring about rich, high-contrast streaming and video images that offer true-to-life colors. From various settings to the scales display, operations are done on the compact control box.

■ Motorized focus and zoom enhance efficiency (Motorized Focus Unit SZX2-FOA/Motorized Zoom Unit SZX2-ZB16A)

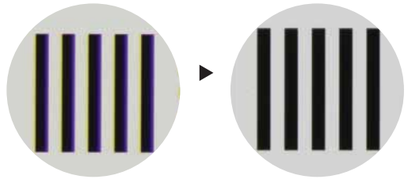
The motorized focus unit has a maximum load capacity of 23 kg and facilitates operation when accessories such as heavy cameras are attached. Adding motorized zoom simplifies both focusing and zooming through use of a hand switch — the ideal solution for improving examination efficiency. Remote operation is also possible, allowing observation on a monitor.

■ 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)

Coaxial 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.

CO_2 incubator (MI-IBC-SZX/MI-IBC-SZXF)

This CO_2 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_2 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.

SZX2-ILLB + MIU-IBCSZX + MS-SZX2A

Thermo plate (MATS-U55SZX2A/MATS-U55SZX2B)

Compatible with the SZX2 only, this thermo plate has a temperature range that may be set from room temperature to 50˚ to keep the specimen warm.

SZX2-ILLB + MATS-U55SZX2A

■ 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 illumination base 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)

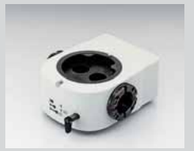
With its ø66 mm diameter mount, this ring light illumi-nator has been specially developed for stereo microscope compatibility. When mounted with ring light adapter SZX-LGR66*, it provides bright, uniformly lit images especially avoiding glaring reflections or obscuring shadows.

* Compatible with the SZX10 only.

■ 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.



Simple polarizer (SZX-PO) and analyzer (SZX2-AN)

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

A zoom ratio of 1:10 is suitable for operations like specimen selection or dissection. SZX10 provides wide viewing and assures fewer oversights while relieving fatigue. Choose from a wide range of accessories to suit your sample needs.

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-SDO2)
Ample distance (650 mm) is provided between the main andsecondary observers, making observations easy withoutdisturbing microscope operation. The color of the built-inpointer can be selected to contrast the specimen.

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/BI45)
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.

SZX16/SZX10 specifications

Item	Specifications					
Zoom microscope body	SZX2-ZB16/SZX2-ZB16A			SZX2-ZB10		
	Zoom ratio: 16.4 (0.7x-11.5x) Magnification indication: 0.7/0.8/1/1.25/1.6/2/2.5/3.2/4/5/6.3/8/10/11.5			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					
	Motorized zoom body (SZX2-ZB16A), Manual zoom body (SZX2-ZB16, SZX2-ZB10)					
	AS: Built-in					
	Objective mounting: screw mount					
Objective	For SZX2-ZB16/SZX2-ZB16A			For SZX2-ZB10		
	Objectives	NA	W.D. (mm)	Objectives	NA	W.D. (mm)
	SDFPLFL0.3×	0.045	141	DFPL0.5×-4	0.05	171
	SDFPLAPO0.5×PF	0.075	70.5	DFPL0.75×-4	0.075	116
	SDFPLAPO0.8×	0.12	81	DFPLAPO1×-4	0.1	81
	SDFPLAPO1×PF	0.15	60	SZX-ACH1×	0.1	90
	SDFPLAPO1.6×PF	0.24	30	DFPLAPO1.25×	0.125	60
	SDFPLAPO2×PFC	0.3	20	SZX-ACH1.25×-2	0.125	68
				DFPL1.5×-4	0.15	45.5
				DFPL2×-4	0.2	33.5
Eyepiece	WHN10×-H FN 22 WHSZ15×-H FN 16 WHSZ20×-H FN 12.5 WHSZ30×-H FN 7			WHSZ10×-H FN 22 WHSZ15×-H FN 16 WHSZ20×-H FN 12.5 WHSZ30×-H FN 7		
Observation tube	SZX2-TTR/SZX2-TTRPT: Tilting trinocular tube Convergence angle, Tilting angle:5°–45°, 2 steps optical path selectable (TTR observation: straight port = 100:0, 50:50) (TTRPT observation: straight port = 100:0, 0:100) Interpupillary distance adjustment: 52–76 mm					
	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, 0:100) Interpupillary distance adjustment: 52–76 mm					
	———			SZX-BI30: 30° binocular tube Tilting angle:30° Interpupillary distance adjustment: 51–76 mm		
	———			SZX-BI45: 45° binocular tube Tilting angle:45° Interpupillary distance adjustment: 52–76 mm		
	———			SZX-TBI: tilting binocular tube Tilting angle: 5–45° Interpupillary distance adjustment: 51–76 mm		
Focusing assembly	SZX2-FO: Focusing unit / focus: rack and pinion with roller guide (with torque adjustment ring for coarse focusing), optional counter balance, coarse handle stroke: 80 mm, coarse handle stroke per rotation: 21 mm, Load capacity: 0–10.0 kg					
	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: 80 mm, coarse handle stroke per rotation: 36.8 mm, fine handle stroke: 80 mm, fine handle stroke per rotation: 0.77 mm, load capacity: 2.7–15.0 kg					
	SZX2-FOFH: Fine focusing unit for heavy loading / focus: rack and pinion with roller guide (with torque adjustment ring for coarse focusing), coarse and fine coaxial handle, built-in gas spring counter balance, coarse handle stroke: 80 mm, coarse handle stroke per rotation: 36.8 mm, fine handle stroke: 80 mm, fine handle stroke per rotation: 0.77 mm, load capacity: 8.0–25.0 kg					
	SZX2-FOA: Motorized focus unit / focus: rack and pinion with roller guide, focusing stroke: 78 mm, motorized focusing speed coarse: 2.7 mm/s, fine: 0.03 mm/s load capacity: 0.0-23.0 kg					
Stands	SZX2-ST: Standard stand / Pillar height: 270 mm, base dimension: 284 (W) x 335 (D) x 31(H) mm, Stage clips are mountable, with stage adapter fixing screw holes					
	SZX2-STL: Large stand / Pillar height: 400 mm, base dimension: 400 (W) x 350 (D) x 28 (H) mm, Stage clips are mountable, with stage adapter fixing screw holes					

Transmitted illumination base specifications

Item	Specifications			
	SZX2-ILLT	SZX2-ILLB	SZX2-ILLK	SZX2-ILLD
Light source	LED (Average service life: Over 10,000 hrs by rated use.)	6 V 30 W Halogen 6 V 30 W HAL PHILIPS 5761 (average lamp service life: approx. 100 hours by rate use.)		
Light intensity adjustment	Continuously variable system			
Effective illuminated area	Brightfield: ø63 mm Darkfield / Oblique: ø35 mm	ø40 mm		Brightfield: ø40 mm Darkfield: ø35 mm
Built-in filter	———	LBD, ND6, ND25 one for each	———	LBD (bright field only)
Add-on filter	———	———	ø45LBD filter	———
Illumination mode	Brightfield illumination Oblique illumination Darkfield illumination	Brightfield illumination Oblique illumination	Brightfield illumination Oblique illumination	Brightfield illumination Darkfield illumination
Contrast selection	———	2-step selection of High and Low	———	———
Cooling fan	———	Built-in		
The height of stage (from desk surface)	41 mm	82 mm		
Pillar height	270 mm			
Weight	Approx. 3.7 kg	Approx. 5.0 kg	Approx. 4.6 kg	Approx. 5.4 kg
Power source	AC 100-240 V 50/60 Hz (AC adapter)	AC 100-120/220-240 V 50/60 Hz		

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. Effective for observing structure, such as imperfections on metal surfaces, patterns on IC or LCD
Illumination specification	Minimum W.D.: 30 mm Mount diameter: 66 mm Flexible part: 1000 mm Attachment adapter*: SZX-LGR66 *No adapter required for SZX16-LGR66 *Unable to attach to SDFPLAPO2×PFC/SDFPLAPO1.6×PF	LG-DFI: Flexible part 900 mm Inter-lock part 500 mm LG-DI: Inter-lock part 500 mm	Magnification factor: 1.5x Light guide: LG-DF Flexible part 1000 mm 1/4 wavelength retardation plate included
Light source specifications	Type: LG-PS2 Functions: Light intensity control and lamp ON/OFF control by external signal (DC0-5 V), mechanical adjustment function Power consumption: 150 W (350 VA) Rated voltage: 100–120 V/220–240 V 50/60 Hz Dimensions: 120 (H) x 120 (H) x 235 (D) mm Weight: approx. 1.5 kg		
Option	LG-R66PL: Polarizer/analyzer set for LG-R66	HILL301: Spot lens	———

Reflected light fluorescence illuminator

Type	Reflected light fluorescence illuminator/Motorized focusing unit SZX2-RFA16A	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	Built-in Motorized focus unit / focus: rack and pinion with roller guide, focusing stroke: 67 mm, motorized focusing speed coarse: 2.7 mm/s, fine: 0.03 mm/s load capacity: 0.0-19.3 kg	Built-in 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: 69 mm, coarse handle stroke per rotation: 36.8 mm, fine handle stroke: 69 mm, fine handle stroke per rotation: 0.77 mm, load capacity: 2.7-15.0 kg	———
Light source	100 W Hg lamp housing or 130 W Hg light guide illumination		

Total magnifications and actual field diameters of SZX2-ZB16/SZX2-ZB16A

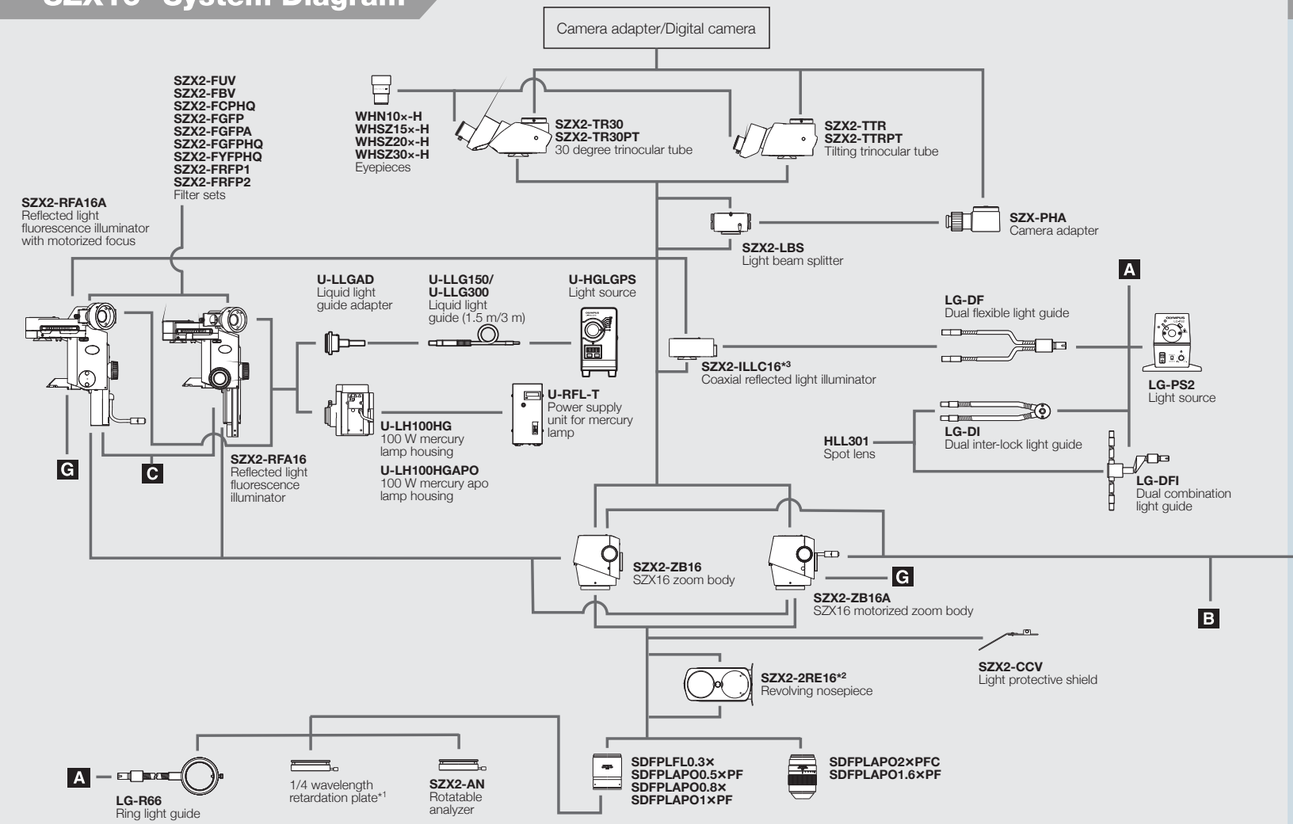
Objective	Eyepiece							
	WHN10×-H		WHSZ15×-H		WHSZ20×-H		WHSZ30×-H	
	total mag.	field diameter (mm)	total mag.	field diameter (mm)	total mag.	field diameter (mm)	total mag.	field diameter (mm)
SDFPLFL0.3×	2.1x–34.5x	ø104.8–ø6.4	3.2x–51.8x	ø76.2–ø4.6	4.2x–69x	ø59.5–ø3.6	6.3x–103.5x	ø33.3–ø2.0
SDFPLFL0.5×PF	3.5x–57.5x	ø62.9–ø3.8	5.3x–86.3x	ø45.7–ø2.8	7x–115x	ø35.7–ø2.2	10.5x–172.5x	ø20.0–ø1.2
SDFPLAPO0.8×	5.6x–92x	ø39.3–ø2.4	8.4x–138x	ø28.6–ø1.7	11.2x–184x	ø22.3–ø1.4	16.8x–276v	ø12.5–ø0.8
SDFPLAPO1×PF	7x–115x	ø31.4–ø1.9	10.5x–172.5x	ø22.9–ø1.4	14x–230x	ø17.9–ø1.1	21x–345x	ø10.0–ø0.6
SDFPLAPO1.6×PF	11.2x–184x	ø19.6–ø1.2*	16.8x–276x	ø14.3–ø0.9	22.4x–368x	ø11.2–ø0.7	33.6x–552x	ø6.3–ø0.4
SDFPLAPO2×PFC	14x–230x	ø15.7–ø1*	21x–345x	ø11.4–ø0.7*	28x–460x	ø8.9–ø0.5	42x–690x	ø5.0–ø0.3

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

Total magnifications and actual field diameters of SZX2-ZB10

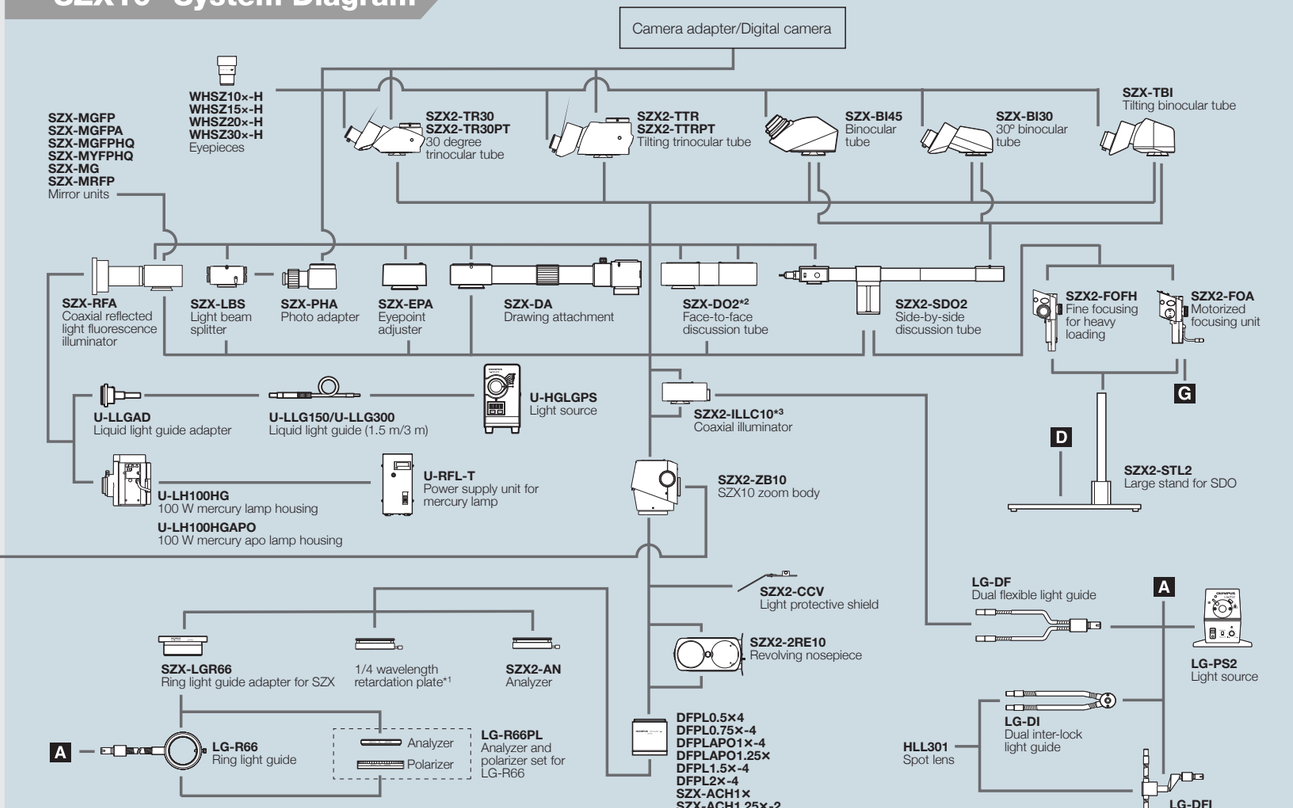
Objective	Eyepiece							
	WHSZ10×-H		WHSZ15×-H		WHSZ20×-H		WHSZ30×-H	
	total mag.	field diameter (mm)	total mag.	field diameter (mm)	total mag.	field diameter (mm)	total mag.	field diameter (mm)
DFPL0.5×-4	3.2x–31.5x	ø69.8–ø7.0	4.7x–47.3x	ø50.8–ø5.1	6.3x–63x	ø39.7–ø4	9.5x–94.5x	ø22.2–ø2.2
DFPL0.75×-4	4.7x–47.3x	ø46.6–ø4.7	7.1x–70.9x	ø33.9–ø3.4	9.4x–94.5x	ø26.5–ø2.6	14.2x–141.8x	ø14.8–ø1.5
DFPLAPO1×-4 SZX-ACH1×	6.3x–63x	ø34.9–ø3.5	9.5x–94.5x	ø25.4–ø2.5	12.6x–126x	ø19.8–ø2	18.9x–189x	ø11.1–ø1.1
DFPLAPO1.25× SZX-ACH1.25×-2	7.9x–78.9x	ø27.9–ø2.8	11.8x–118.1x	ø20.3–ø2	15.8x–157.5x	ø15.9–ø1.6	23.6x–236.3x	ø8.9–ø0.9
DFPL1.5×-4	9.5x–94.5x	ø23.3–ø2.3	14.2x–141.8x	ø16.9–ø1.7	18.9x–189x	ø13.2–ø1.3	28.4x–283.5x	ø7.4–ø0.7
DFPL2×-4	12.6x–126x	ø17.5–ø1.7	18.9x–189x	ø12.7–ø1.3	25.2x–252x	ø9.9–ø1	37.8x–378x	ø5.6–ø0.6

SZX16 System Diagram



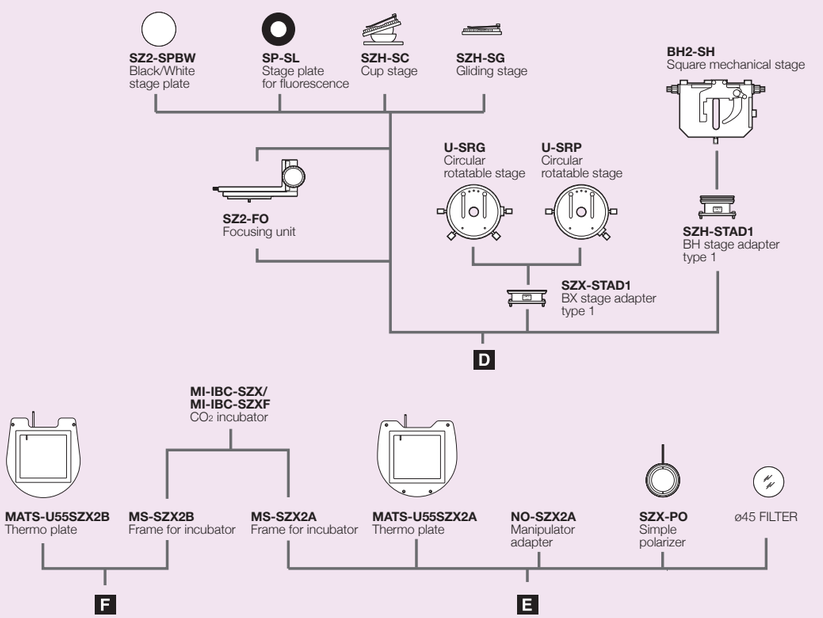
*1 Incorporated in SZX2-ILLC16 *2 Cannot be attached to SZX2-FO *3 Cannot be attached to SDFPLAPO1.6×PF/2×PFC

SZX10 System Diagram

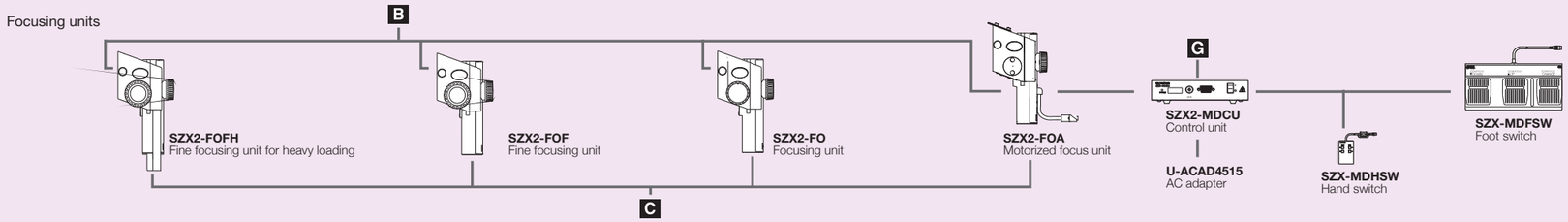


*1 Incorporated in SZX2-ILLC10 *2 Please contact your nearest Olympus dealer for applicable observation tube combination *3 Cannot be attached to DFPL2×-4

Accessories



Focusing units



Illuminators