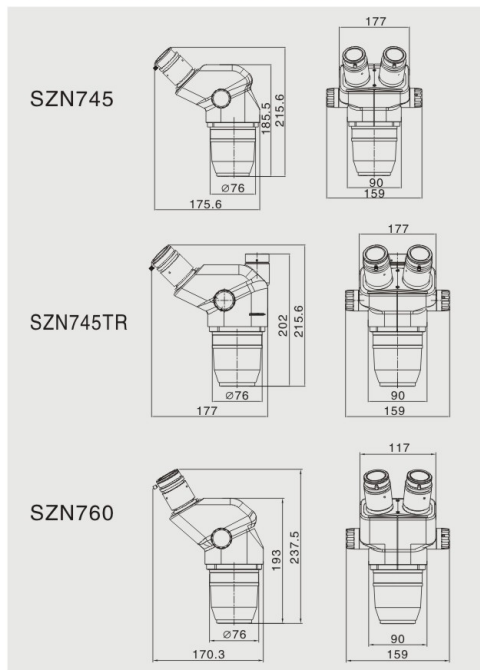


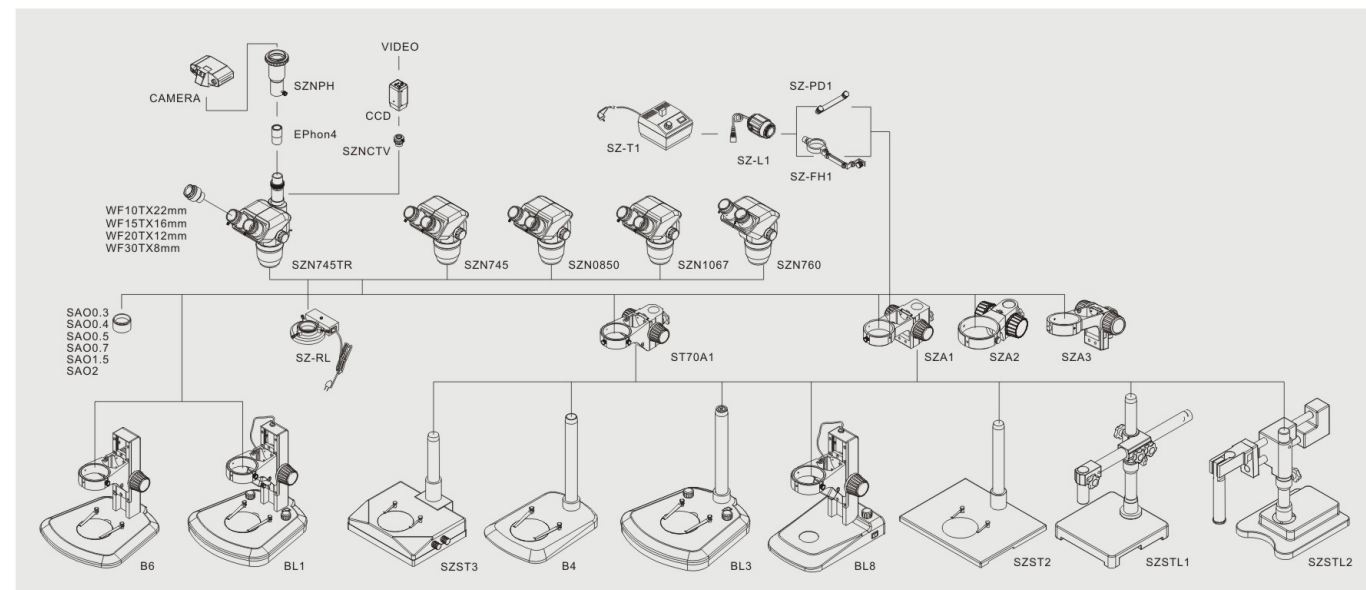
SZN specification

Viewing Head	45° or 60° inclined, 360° rotatable, inter-pupillary range 54~76mm, binocular or trinocular for option, splitting ratio: 2:8 or 5:5
Eyepieces	High eyepoint wide field 10X/22mm, diopters adjustable (± 5)
	Optional: 10X/22mm, 15X/16mm, 20X/12mm, 30X/8mm (Reticle is available for all)
Objective	Zoom stereo 0.67X~4.5X (zoom ratio: 6.7:1)
	Optional: 0.8X~5X and 1X~6.7X
Optional Auxiliary Objective	0.3X/287mm, 0.4X/217mm, 0.5X/177mm, 0.7X/120mm, 1.5X/47mm, 2X/26mm
Magnification	Standard specification: 6.7X~45X (can be extended to 2X~402X with different eyepiece and auxiliary objective)
Working Distance	Standard specification: 100mm, can be extended to 26mm~287mm with optional auxiliary objective
Focus	Stroke 50mm, tension knob adjustable
Photography Accessories	1/3x CTV, 1/2x CTV, 1.0x CTV, C-mount

SZN dimension: mm




SZN series zoom stereo microscope configuration chart



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 SUNNY INSTRUMENTS have passed the certificate: ISO 9001, ISO 14001, ISO 13485

As technical improvement, manufacturer has right to make renovation in designing without notice



Compact and comfortable new design
Sharp and clear stereo image
Wide viewing field, large zoom ratio,
long working distance

www.sunnyoptical.com
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SZN ZOOM STEREO MICROSCOPE

Characteristic:

- Excellent and advanced optical performance, provide a plan and clear micro image, superior image is available even at the edge of viewing field.
- New designed eyepiece with adjustable diopter, zoom objectives and varieties of auxiliary objectives, expand the magnification range, acquire clearer and brighter micro image.
- Brand new ergonomic design, long time use without fatigue, ensure easy and comfortable operation.
- Widely applied to biological, medical, scientific research, electronic industry online testing and other field, meet the demand of high accuracy measurement.





Eyepieces

High eye point, wide field eyepiece 10X/22mm (Standard). 15X/16mm, 20X/12mm, 30X/8mm for option base on different requirements. Reticle assembly is available for all.



Viewing Head

45° or 60° viewing head, accord with ergonomics, is the best inclination for observation. To observe in natural position, long time and high efficiency working is available. Connect trinocular tube to camera system, image output, analysis and storage are available.



Focus System

Precision guide rail type, flexible and accurate adjustment is realizable. Tension adjustable focusing knobs, flexible and comfortable operation is realizable. Both sides of zoom knobs are adjustable.

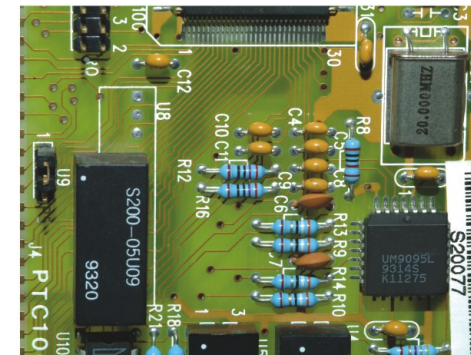


Multiple Illuminators And Observation

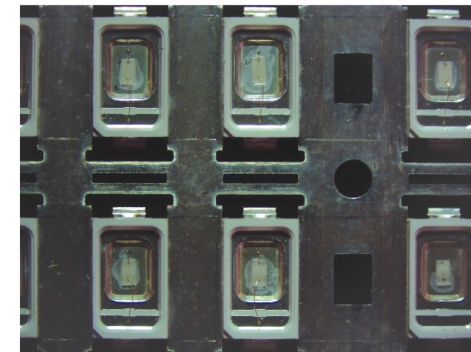
New integrated design, combine high bright LED with base&focus. Independent intensity adjustable switch for top and bottom illuminators, create an uniform, long-lasting and stable micro-image under different magnification. Optional illuminator type: halogen and fluorescence, meet different observation needs.

Electronic Industry Inspection

SZN is widely used for industry inspection and analysis, such as for welding transistors spot, testing superficial phenomenon of different material crevices and stomatal corrosion. SZN can be assembled in machine equipment, used for manufacturing small precision components, monitor the producing process, testing the components and assembly tools.



PCB



LED bracket



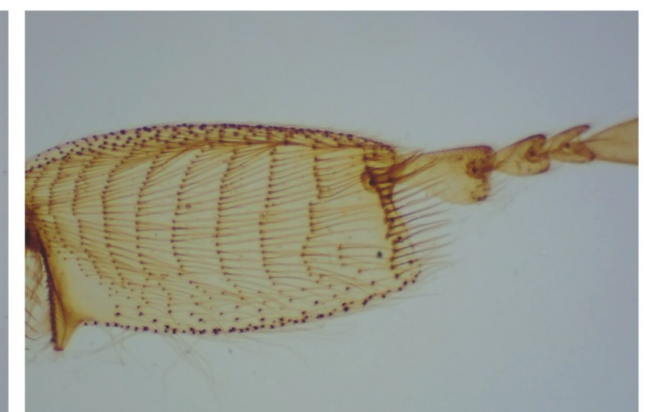
Gold Thread Inspection

Biomedical Research

SZN can be used for basic biology research of medical & science, and also suitable for teaching experiment course in schools and colleges. It is an useful assistance for studying zoology, botany, entomology, histology, anatomy, dermatology, etc.



Hydra



Bee leg

With perfect performance, novel design, varieties of accessories. SZN provides the best collocation for different observation demands



1 Small fan base with pillar stand B4: used with ST70A1



2 Big plan base with pillar stand STST2: used with SZA1



3 Transmitted (LED) base with pillar stand BL3: used with ST70A1; built-in self-adapting wide voltage 100V-240V; with high LED light



4 Integrated stand and base BL8: built-in self-adapting wide voltage 100V-240V; high bright LED light (Single 5W bulb)



5 Integrated stand and base SZST1+SZB1: built-in condenser and adjustable reflecting mirror; SZ-L1 reflecting illuminator can be assembled



6 Integrated stand and base B6: new ergonomic design, more stable



7 Single-arm pillar stand SZSTL1: observation scope being expanded, any direct and angle is available. All the standard focus arms can be assembled



8 Double-arm pillar stand SZSTL2: double-arm structure, more stable, All the standard focus arms can be assembled



9 Transmitted base with pillar stand SZST3: used with SZA1; bottom illumination 12V/15W halogen, intensity adjustable

Standard Focus Arm ST70A1: Rack and rail type focusing system, knob tension adjustable. Focusing range: 50mm. Applicable base: B4, B5, BL3, SZSTL1, SZSTL2. Reflected illuminator holder SZ-PD1 and SZFH1 can be assembled.



Industrial Bonding Focus Arm SZA2: Plane focus arm, rack and dovetail type focusing system. Focusing range: 50mm



Industrial Bonding Focus Arm SZSA3: Plane focus arm with industrial bonding adapter, rack and rail focusing system. Flexible observation. Focusing range: 50mm



Auxiliary Objectives

Working distance and magnification can be accordingly adjusted by using different auxiliary objectives. With six options: 0.3X, 0.4X, 0.5X, 0.7X, 1.5X, 2X, the best magnification system and suitable working distance are available.

SZN745 Zoom Stereo Microscope Optical Parameters:

Auxiliary Objective		0.3X	0.4X	0.5X	0.7X	1X	1.5X	2.0X	
Working Distance(mm)		287mm	217mm	200mm	120mm	100mm	47mm	26mm	
Eyepiece	10X	Magnification	2.0X-13.5X	2.7X-18.0X	3.4X-22.5X	4.7X-31.5X	6.7X-45.0X	10.1X-67.5X	13.4X-90.0X
		Object Field(mm)	109.5-16.3	82.1-12.2	65.7-9.8	46.91-7	32.8-4.9	21.9-3.3	16.4-2.4
	15X	Magnification	3.0X-20.3X	4.0X-27.0X	5.0X-33.8X	7X-47.3X	10.1X-67.5X	15.1X-101.3X	20.1X-135X
		Object Field(mm)	79.6-11.9	59.7-8.9	47.8-7.1	34.1-5.1	23.9-3.6	15.9-2.4	11.9-1.8
	20X	Magnification	4.0X-27.0X	5.4X-36.0X	6.7X-45.0X	9.4X-63X	13.4X-90.0X	20.1X-135.0X	26.8X-180X
		Object Field(mm)	59.7-8.9	44.8-6.7	35.8-5.3	25.6-3.8	17.9-2.7	11.9-1.8	9-1.3
30X	Magnification	6X-40.5X	8X-54X	10X-67.5X	14.1X-94.5X	20X-135X	30X-202X	40X-270X	
	Object Field(mm)	34.8-5.1	26.1-3.87	20.9-3.1	14.9-2.2	10.4-1.55	6.9-1	5.2-7.5	

All the eyepieces listed here are high eye-point wide field. All the WD listed here are effective working distance.



Complete Accessories

- ① External oblique illuminator (SZL1, SZ-T1, SZFH1, SZPD1)
- ② LED ring light
- ③ Cold light source (RLP/SLP/DLP)
- ④ Fluorescent ring light (LY220-8)
- ⑤ Dark field condenser and gem clip