CNOPTEC®

# SZ650/680/SZ810

## SZ Series Stereo Zoom Microscope

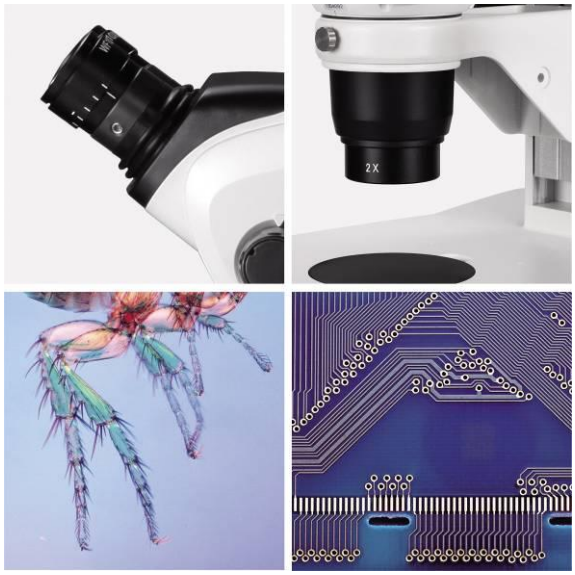
## Outstanding Ergonomic Design

- ✧ SZ680/780 35°viewing angle, SZ650 40°viewing angle, suitable for long-term sitting observation.
- ✧ 330mm×300mm big stand, high stability , apply to all kinds of anatomy of specimen.

## Top Optical & Mechanical Design

- ✧ Greenough optical system, built-in rotating shaft zoom system.
- ✧ No tilting Image in left &right light path in complete pupillary distance , No dizziness feeling after long time observing.
- ✧ (patent number: 201320807246.0)
- ✧ Stereo angle for left & right light path is 12°, stereoscopic effect, large viewing field, high zoom ration.

## Excellent Technology And Quality




- ✧ High resolution, large depth of field, excellent color restoration and contrast.
- ✧ Operation comfortable(manufactured by high-precision machine, excellent assembly technology ).
- ✧ High- end material(PC resin cover, aluminium alloy ,copper alloy parts, austenite stainless steel driving parts).

## International Level Appearance Design

- ✧ Elegant shape , high-end and integrated appearance design， comfortable operation.

## Various Accessories,Complete Function.

- ✧ Different video output connectors, built-in digital image model.
- ✧ Illumination optional: LED, halogen lamp, cold light source etc. (100V-240V wide voltage input).
- ✧ Various professional stands and operating attachments.

Photography System

Camera System

SZ650BP

SZ680/810BP

SZ680/810TP

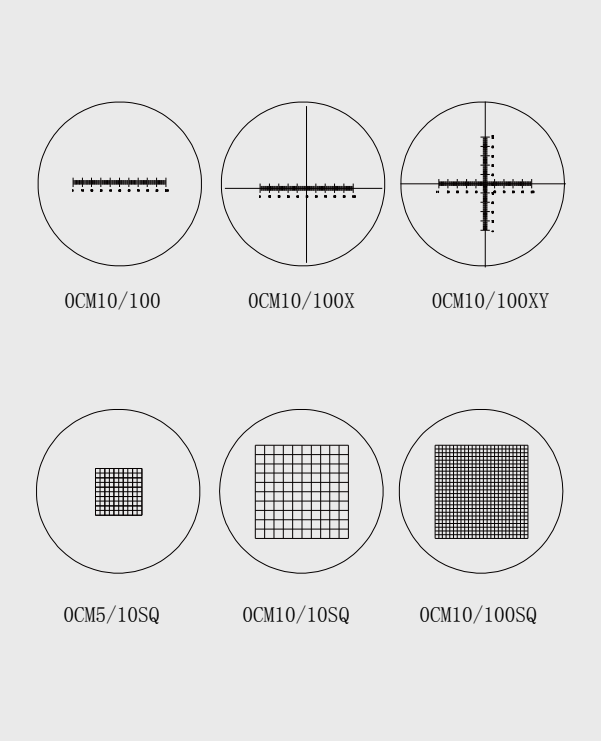
SZ650B2L

SZ680/810B2L

SZ680/810T2L

User can limit the zoom range as per self-choice.

Rotating switching to video output and input, 100% light distribution.




Different Size Reticule Eyepiece

## Main Technical Specification

| Model | SZ650 | SZ680 | SZ810 |
|---|---|---|---|
| Objectives Zoom Range | 0.7X-4.5X | 0.68X-4.7X | 0.65X-5.3X |
| Zoom Ratio | 1 : 6.5 | 1 : 6.8 | 1 : 8.1 |
| Field Diameter (mm) | Φ22 | Φ23 | Φ24 |
| Working Distance (mm) | 110 | 110 | 110 |
| Stereo Angle ( °) | 12 | 12 | 12 |
| Viewing Angle ( °) | 40 | 35 | 35 |
| Interpupillary Adjustable Distance (mm) | 50-75 | 50-75 | 50-75 |
| Video Output Distribution | NO | 100%（0:100 standard） | |
| | | 50:50 optional | |
| Guide Rail Stand Focusing Distance (mm) | 80 | | |
| Pillar Stand Focusing Distance (mm) | 115 | | |

## SZ650 Series Objective & Eyepiece Parameter List (0.7×-4.5×)

| Additional Objective | | 0.5X | 1X(built-in) | 2X |
|---|---|---|---|---|
| W.D | | 189mm | 110mm | 36mm |
| 10XEyepiece/Φ22mm | Magnification | 3.5～22.5 | 7～45 | 14～90 |
| | Field dia. (mm) | 62.9～9.8 | 31.43～4.89 | 15.71～2.44 |
| 15XEyepiece/Φ16mm | Magnification | 5.25～33.75 | 10.5～67.5 | 21～135 |
| | Field dia. (mm) | 45.71～7.11 | 22.86～3.56 | 11.43～1.78 |
| 20XEyepiece/Φ12mm | Magnification | 7～45 | 14～90 | 28～180 |
| | Field dia.(mm) | 34.28～5.33 | 17.14～2.67 | 8.57～1.33 |

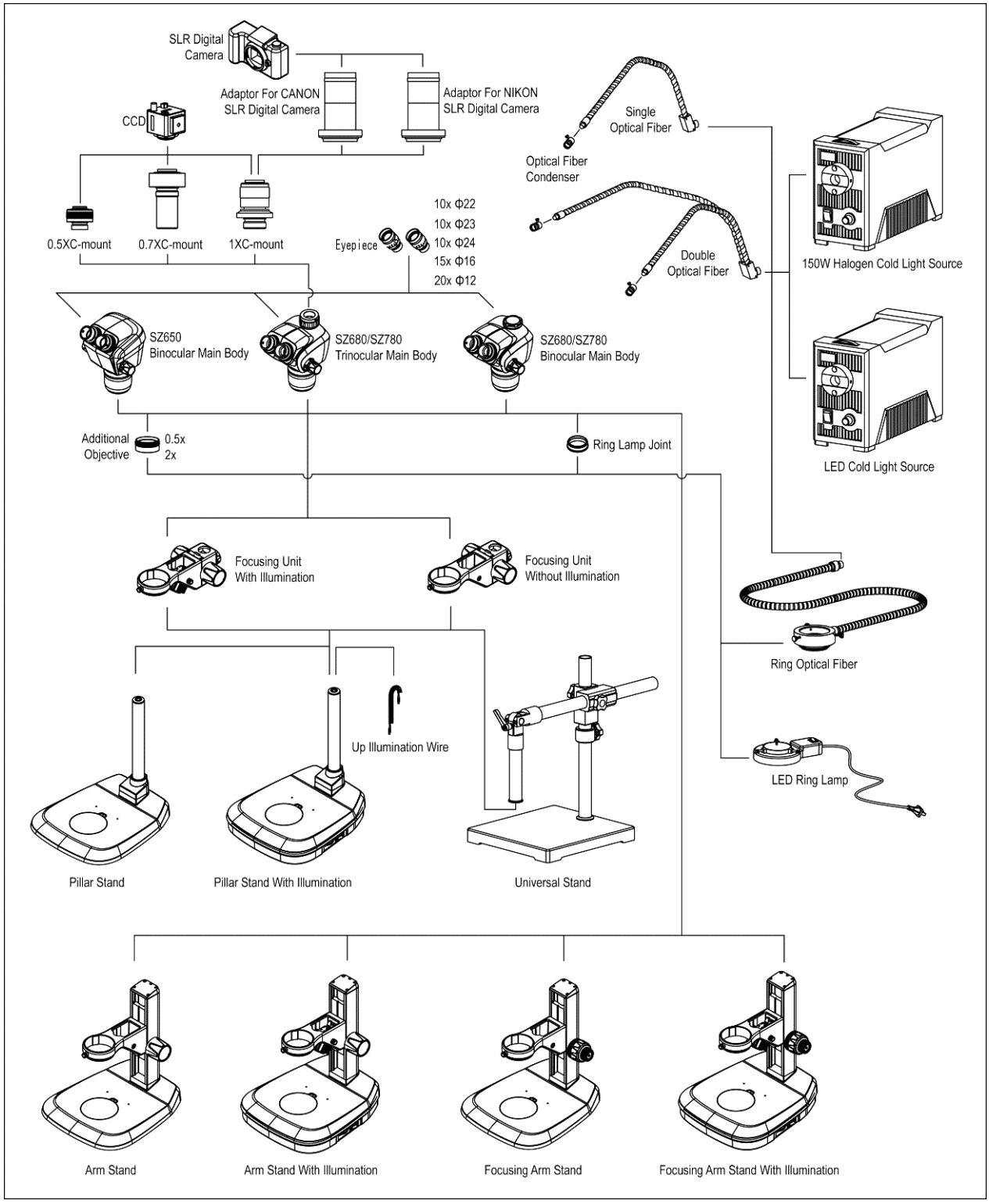
## SZ680 Series Objective & Eyepiece Parameter List (0.68×-4.7×)

| Additional Objective | | 0.5X | 1X(built-in) | 2X |
|---|---|---|---|---|
| W.D | | 189mm | 110mm | 36mm |
| 10XEyepiece/Φ23mm | Magnification | 3.4～23.5 | 6.8～47 | 13.6～94 |
| | Field dia. (mm) | 67.65～9.79 | 33.82～4.89 | 16.91～2.46 |
| 15XEyepiece/Φ16mm | Magnification | 5.1～35.25 | 10.2～70.5 | 20.4～141 |
| | Field dia. (mm) | 47.06～6.81 | 23.53～3.40 | 11.76～1.70 |
| 20XEyepiece/Φ12mm | Magnification | 6.8～47 | 13.6～94 | 27.2～188 |
| | Field dia.(mm) | 35.294～5.11 | 17.65～2.55 | 8.82～1.28 |

## SZ810 Series Objective & Eyepiece Parameter List (0.65×-5.3×)

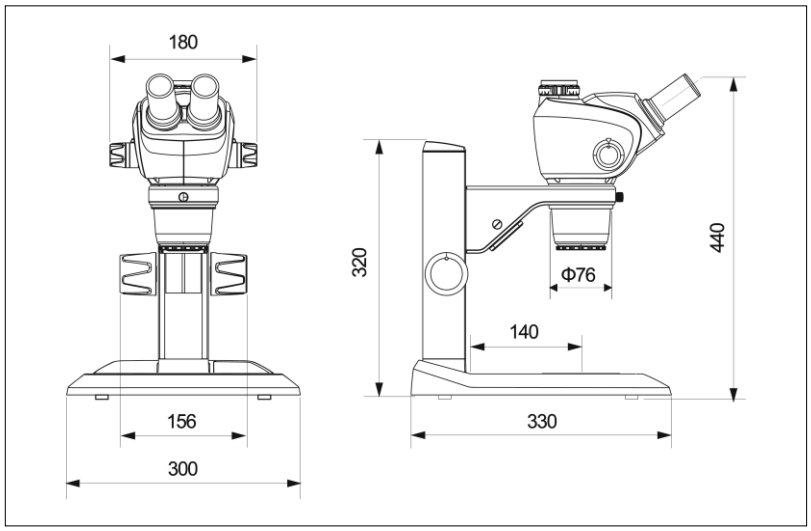
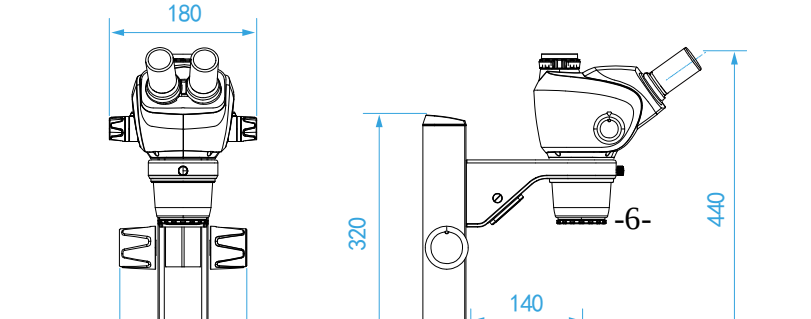
| Additional Objective | | 0.5X | 1X(built-in) | 2X |
|---|---|---|---|---|
| W.D | | 189mm | 110mm | 36mm |
| 10XEyepiece/Φ24mm | Magnification | 3.3～25.5 | 6.6～51 | 13.2～102 |
| | Field dia. (mm) | 72.73～9.41 | 36.36～4.71 | 18.18～2.35 |
| 15XEyepiece/Φ16mm | Magnification | 4.95～38.25 | 9.9～76.5 | 19.8～153 |
| | Field dia. (mm) | 48.48～6.27 | 24.24～3.14 | 12.12～1.57 |
| 20XEyepiece/Φ12mm | Magnification | 6.6～51 | 13.2～102 | 26.4～204 |
| | Field dia. (mm) | 39.64～4.71 | 18.18～2.35 | 9.09～1.18 |

## SZ650/680/810 Series Zoom Stereo Microscope General Layout Diagram



## SZ650/680/810 Series Zoom Stereo Microscope Outfit

| Items | | SZ650BP | SZ650B2L | SZ680BP | SZ680B2L | SZ810BP | SZ810B2L |
|---|---|---|---|---|---|---|---|
| Main Body | Binocular | ● | ● | ● | ● | ● | ● |
| | Trinocular | | | ○ | ○ | ○ | ○ |
| 10XEyepiece/Φ22mm | | ●● | ●● | | | | |
| 10XEyepiece/Φ23mm | | | | ●● | ●● | | |
| 10XEyepiece/Φ24mm | | | | | | ●● | ●● |
| 15XEyepiece/Φ16 mm | | ○○ | ○○ | ○○ | ○○ | ○○ | ○○ |
| 20XEyepiece/Φ12mm | | ○○ | ○○ | ○○ | ○○ | ○○ | ○○ |
| 0.5X/2X Objective | | ○ | ○ | ○ | ○ | ○ | ○ |
| Focusing unit | | ● | ● | ● | ● | ● | ● |
| No light | | ● | | ● | | ● | |
| Reflecting 3W LED | | | ● | | ● | | ● |
| Transmitting 3W LED | | | ● | | ● | | ● |
| Black & white Plate | | ● | ● | ● | ● | ● | ● |
| Glass Plate | | | ● | | ● | | ● |
| Arm stand | | ● | ● | ● | ● | ● | ● |
| Pillar stand | | ○ | ○ | ○ | ○ | ○ | ○ |
| Focusing Arm stand | | ○ | ○ | ○ | ○ | ○ | ○ |
| Base (330×300mm) | | ● | ● | ● | ● | ● | ● |
| C-mount 0.5X，0.7X，1X | | | | ○ | ○ | ○ | ○ |

Note："●" In Table Is Standard Outfits, "○" Is Optional Accessories.

## SZ650/680/810 Series Zoom Stereo Microscope Size(mm)