Mikrosize®

iStereo-0745T
Stereo Microscope

Contact us

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Feature and Application

The iStereo-0745T Stereo Microscope features a premium optical system and a robust, reliable operating mechanism. It supports trinocular viewing and can be fitted with CCD digital cameras. Equipped with a full set of accessories and multiple combination configurations, it satisfies high-precision application demands across modern biology, medical science, scientific research, on-line inspection for the electronics industry, and other high-tech industrial sectors.

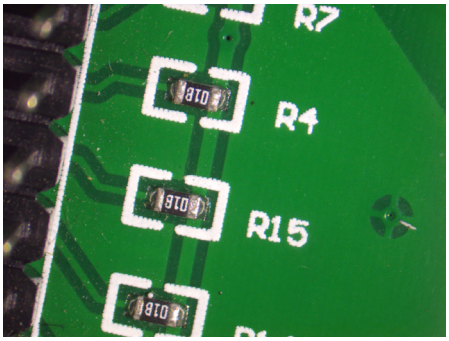
Product Feature

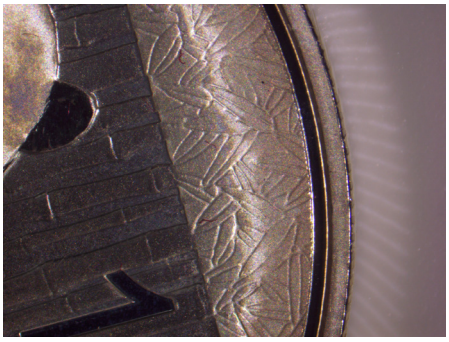
- Premium optical components coated with special coatings deliver high-quality optical imaging.
- Generates erect images with flat focal planes and superior contrast across a wide field of view, delivering brighter, sharper image quality especially at peripheral fields.
- Equipped with a continuous zoom objective lens ranging from 0.7X to 4.5X (6.4:1 zoom ratio), paired with WF10X eyepieces to provide standard magnification of 7X–45X. Magnification can be extended to 2.1X–270X with optional auxiliary objective lenses.
- Features a standard effective working distance of 100 mm (3.94 in). Fitted with optional auxiliary objective lenses, the working distance ranges from 30 mm to 287 mm (1.18–11.30 in), offering ample operating space for various applications.
- 45° inclined observation head with adjustable diopter for binocular tubes, enabling users with different eyesight to obtain crisp, satisfying viewing images.
- Ergonomic structural design with optimal eye point height to prevent fatigue during long-hour observation.
- Zoom handwheels mounted horizontally (axially) on both sides for effortless, comfortable operation and high repeat zoom accuracy.

Feature and Application

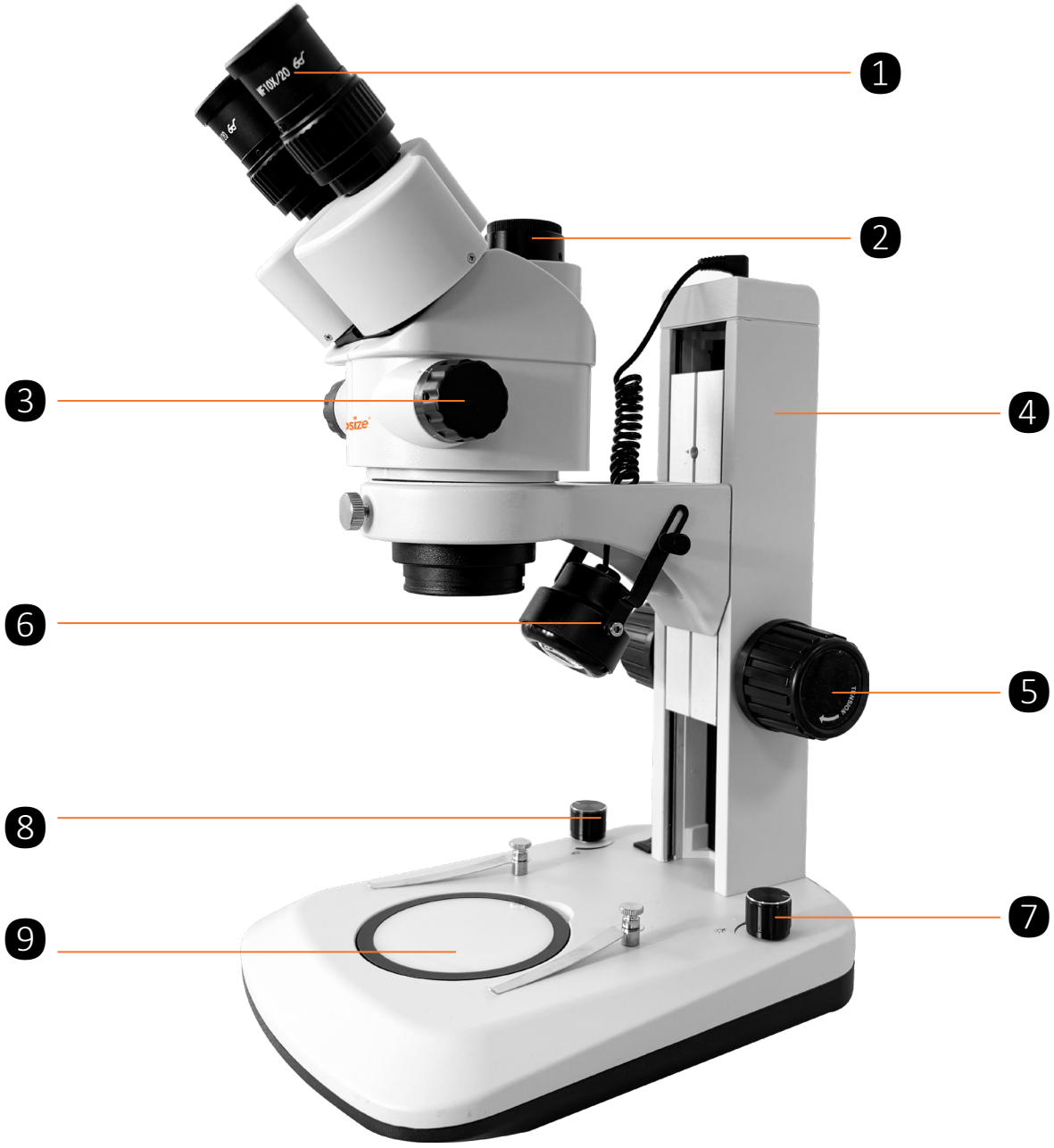
Product Application

- Ideal for microstructural observation and defect inspection of electronic components, precision mechanical parts, PCBs and new materials, and other related fields.
- Meets the demands of on-site real-time quality control and high-precision laboratory analysis, covering incoming material inspection, in-process monitoring, finished product acceptance, and other workflow stages.
- Enables precise dimensional measurement and data archiving, applicable to diverse scenarios including research institutes, factory quality inspection departments, and university laboratories.
- Supports comparative analysis between real-time images and stored snapshots to facilitate consistency verification and anomaly troubleshooting in batch production.
- Compatible with various material types such as metals, plastics and electronic components, and accommodates inspection requirements for both flat and three-dimensional structures.





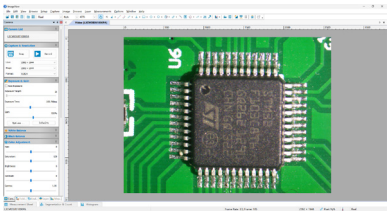
Product Structure



1.Eyepiece **2.CTV Port (Alternative: Camera Interface)** **3.Zoom Knob**
4.Focusing Knob **5.Focusing Knob** **6.Top Illuminator**
7.Top Light Adjustment Knob **8.Base Illuminator**
9.Base Illuminator Adjustment Knob

Structural Features

- Eyepieces support adjustable interpupillary distance and ±5 diopter adjustment, featuring wide field of view and high eyepoint; the observation head adopts a 45° inclined design and allows 360° rotation.
- Interpupillary distance ranges from 54 to 76 mm (2.13–2.99 in). The ergonomic structure delivers fatigue-free viewing even after long-time observation.



- Hinged trinocular head with 0.7X–4.5X continuous zoom objective and a 6.4:1 zoom ratio, guaranteeing full parfocality across the zoom range.
- Standard magnification ranges from 7X to 45X; the magnification can be extended to 3.5X–270X via optional eyepieces and auxiliary objectives with continuous zoom function.
- Adjustment via knobs enables user-friendly operation without objective replacement. Continuous zoom supports precise observation.

Structural Features

- Dual-side focusing design ensures comfortable and convenient operation; users can operate the focusing handwheel on the side closer to them.
- It delivers precise focusing with accurate focal adjustment.
- The dual-side focusing handwheels allow ultra-fine focus control to obtain crisp, clear images.

Top Illuminator

Base Illuminator

- LED light source: LED lamps offer a service life of tens of thousands of hours and superior durability compared with conventional light sources.
- Brightness adjustment: brightness can be continuously adjusted to achieve the optimal illumination level for observation as required.
- Stable color temperature: color temperature remains stable during brightness adjustment, ensuring consistent observation results.

Base Options

B1 Base

B2 Base

B3 Base

- B1 Standard Pillar Stand Base: Suitable for routine quality inspection, laboratory observation and general specimen dissection. It sits stably and fits most standard workpieces and biological specimens for observation.
- B2 Transmitted Light Base (Light Transmission Base): Exclusively for transparent and semi-transparent samples including thin films, glass pieces, plastic components and cell specimens. The bottom transmitted light supplements illumination to reveal internal textures, air bubbles, cracks and other defects.
- B3 Large Platform Base: Compatible with large panels, circuit boards, metal stampings and full-size PCBs. Its extra-large work platform allows samples to be observed without cutting, enabling wide-range translational viewing without frequent repositioning of workpieces.

Overall Dimension

B1 Base
iStereo-0745T-B1

B2 Base
iStereo-0745T-B2

B3 Base
iStereo-0745T-B3

B9 Base
iStereo-0745T-B9

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Technical Specification

Eyepiece	10X/20mm
Magnification	Standard: 7X–45X; expandable to 2.1X–270X via optional eyepieces and auxiliary objectives, continuous zoom design
Optional Eyepieces	15X/15mm,20X/10mm,25X/9mm,30X/8mm
Observation Head	Hinged trinocular head, 45° tilting and 360° rotatable; interpupillary distance: 54–76 mm; binocular diopter adjustment (±5).
Zoom Objective	0.7X–4.5X continuous zoom, 6.4:1 zoom ratio with full parfocality across zoom range
Auxiliary Objectives	Optional: 0.3X, 0.5X, 0.7X, 0.75X, 1.5X, 2X
CTV Port	Optional 0.3X, 0.5X and 1.0X CTV adapters are available, compatible with conventional cameras, digital cameras and industrial cameras.
Focusing System	Coarse focusing, vertical travel range: 50 mm
Base	B9 vertical stand base with built-in LED light; alternative bases optional
Top Illuminator	5V/3W single LED light; ring light available as an optional accessory

Standard Delivery

Name	Qty	Photo
0745 Observation Head	1pc	
B9 Base	1pc	
10X/20mm Eyepiece	2pcs	
Rubber Eyeguard	2pcs	
0.5X CTV Adapter	1pc	
Black & White Contrast Plate	1pc	
Transparent Glass Plate	1pc	
Power Cord	1pc	

Optional Accessories

Model	Name	Remark
EPM15	15X/15mm Eyepiece with Diopter Adjustment	
EPM20	20X/10mm Eyepiece with Diopter Adjustment	
EPM25	25X/9mm Eyepiece with Diopter Adjustment	
EPM30	30X/8mm Eyepiece with Diopter Adjustment	
SAOLM03	0.3X Auxiliary Objective, Working Distance: 287 mm	
SAOLM05	0.5X Auxiliary Objective, Working Distance: 177 mm	
SAOLM07	0.7X Auxiliary Objective, Working Distance: 120 mm	
SAOLM075	0.75X Auxiliary Objective, Working Distance: 117 mm	
SAOLM15	1.5X Auxiliary Objective, Working Distance: 47 mm	

Optional Accessories

Model	Name	Remark
SAOLM20	2.0X Auxiliary Objective, Working Distance: 25 mm	
RL144	144-LED Ring Light	
BS01	B1 Base	
BS02	B2 Base	
BS03	B3 Base	
BS04	B4 Base	
BS05	B5 Base	
BS06	B6 Base	

Optional Accessories

Model	Name	Remark
BS07	B7 Base	
BS08	B8 Base	
BS09	B9 Base	
BSL1	L1 Base	
BSL2	L2 Base	
CTV03	0.3X CTV Adapter	
CTV05	0.5X CTV Adapter	
CTV10	1.0X CTV Adapter	