



iStereo-6745T Stereo Microscope



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Feature and Application

The iStereo-6745T stereo microscope is equipped with premium optical systems and a durable operating mechanism. It features a trinocular head compatible with CCD cameras, complete accessory kits and flexible modular configurations, catering to high-precision applications in modern biomedicine, scientific research, modern online electronics inspection and other high-tech industrial sectors.

Product Feature

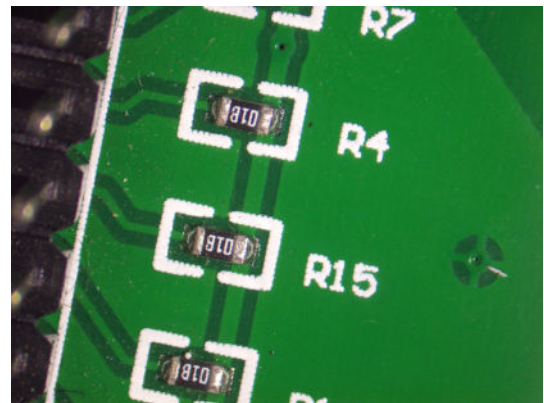
- Premium optical components coated with special coatings deliver high-quality optical images.
- It produces erect images with flat focal planes and excellent contrast across a wide field of view, featuring notably brighter, sharper imagery at peripheral fields.
- Equipped with a 0.67X–4.5X continuous zoom objective lens (6.7:1 zoom ratio). Paired with WF10X eyepieces, the standard magnification ranges from 6.7X to 45X. Optional auxiliary objectives extend the magnification range to 2.01X–270X.
- The standard effective working distance is 105 mm. Fitted with optional auxiliary objectives, the working distance can be extended to 30–287 mm (1.18–11.30 inch), providing ample operating space.
- The observation head tilts at 45° with binocular diopter adjustment, allowing users with varying eyesight to capture crisp, satisfying viewing images.
- Ergonomic structural design with optimal eye-point height avoids fatigue during long-hour observation.
- Zoom handwheels are horizontally (axially) mounted on both sides for convenient operation and outstanding zoom repeatability.



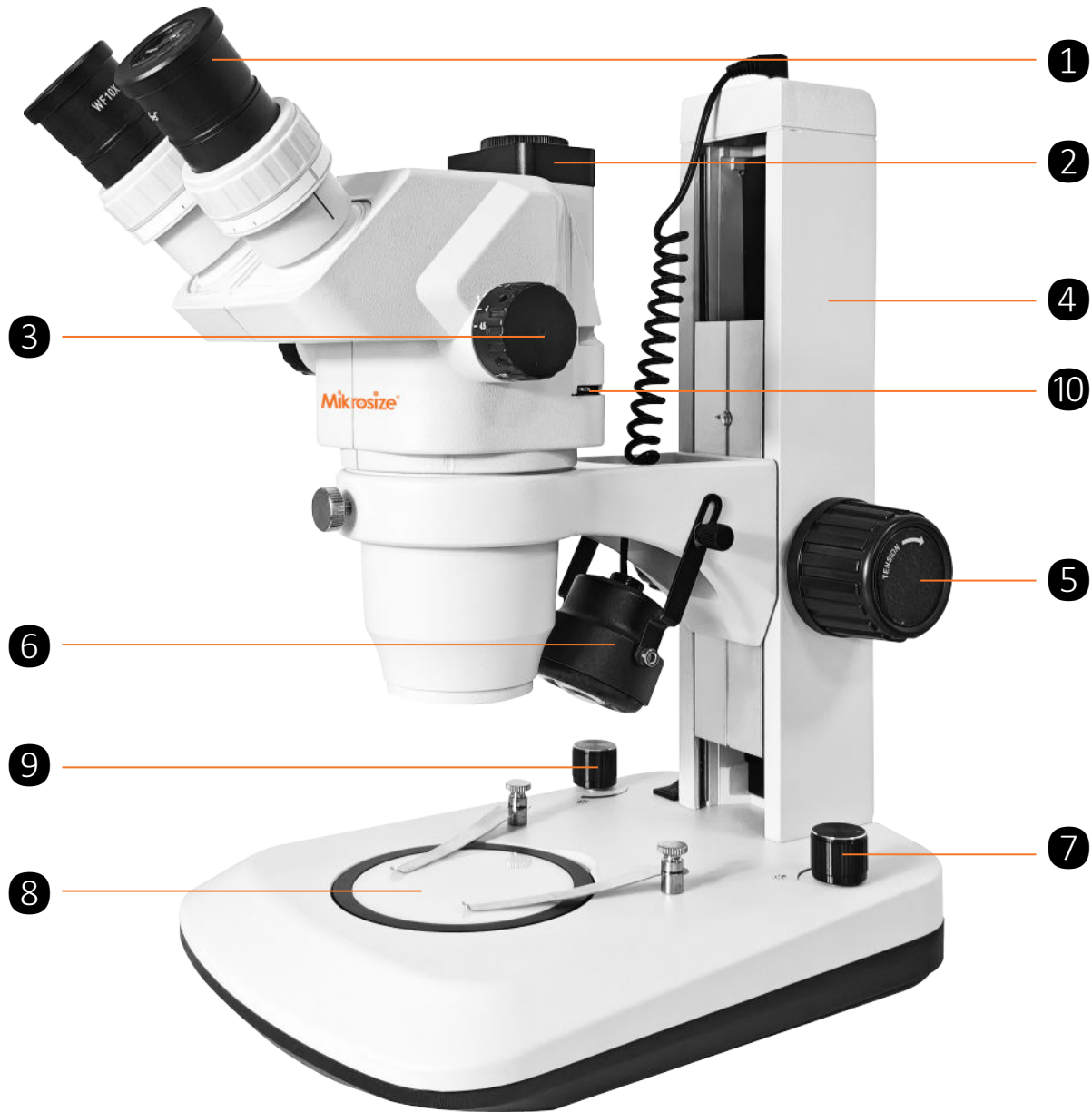
Feature and Application

Product Application

- Ideal for microstructural observation and defect inspection of electronic components, precision mechanical parts, PCBs, new materials and other workpieces.
- Meets requirements for on-site real-time quality control and high-precision laboratory analysis, covering incoming material inspection, process monitoring, finished product acceptance and other workflow stages.
- Supports precise dimensional measurement and data archiving, suited for multiple scenarios including research institutes, factory QC departments and university laboratories.
- Allows comparative analysis between real-time captured images and stored snapshots to streamline consistency verification and anomaly troubleshooting in mass production.
- Compatible with specimens made of metals, plastics, electronic components and other materials, and satisfies inspection demands for both planar and three-dimensional structures.



Product Structure



1.Eyepiece

2.CTV Camera Port

3.Zoom Knob

4.Arm

5.Focusing Knob

6.Top Illuminator

7.Top Light Adjustment Knob

8.Base Illuminator

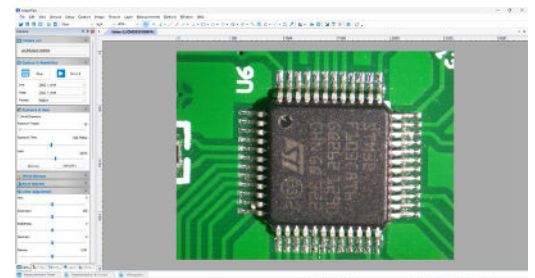
9.Base Illuminator Adjustment Knob

10.Beam Splitter Lever

Structural Features

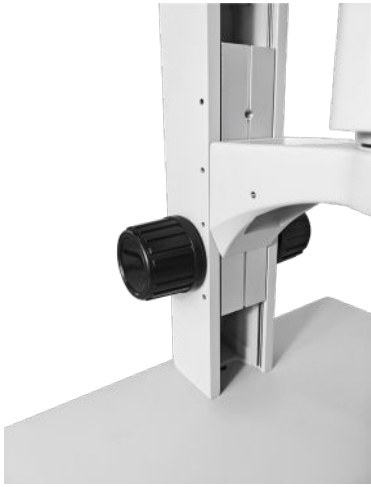


- Eyepieces support adjustable interpupillary distance and ± 5 diopter adjustment, featuring wide field of view and high eyepoint; the observation head adopts a 45° inclined design and allows 360° rotation.
- Interpupillary distance ranges from 54 to 75 mm (2.13–2.95inch). The ergonomic structure delivers fatigue-free viewing even after long-time observation.



- Hinged trinocular head equipped with a 0.67X–4.5X continuous zoom objective and a 6.7:1 zoom ratio to guarantee full parfocality over the entire zoom range.
- The magnification can be expanded to 3.5X–270X via optional eyepieces and auxiliary objectives with continuous zoom capability.
- Knob-controlled adjustment enables user-friendly operation without objective replacement, supporting continuous zoom for accurate observation.
- Built-in CTV port for camera connection to enable screen-based observation.
- Integrated beam splitter lever with switchable 100:0 / 0:100 light splitting ratio for seamless switching between binocular viewing and external camera imaging.

Structural Features



- Dual-sided focusing knobs for convenient, comfortable operation; users may operate the knob closer to their hand.
- It supports precise focusing for accurate focal adjustment.
- The dual focusing knob layout enables ultra-fine focusing control to acquire crisp 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.

Order Information



B1 Base
iStereo-6745T-B1



B2 Base
iStereo-6745T-B2



B3 Base
iStereo-6745T-B3



B9 Base
iStereo-6745T-B9

Technical Specification

Eyepiece	10X/20mm
Magnification	Standard: 6.7X–45X; expandable to 2.01X–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° inclined & 360° rotatable; interpupillary distance: 54–75 mm; dual-side diopter adjustment (± 5)
Objective	0.67X–4.5X continuous zoom, 6.7:1 zoom ratio with full parfocality across zoom range
Auxiliary Objectives	Optional: 0.3X, 0.5X, 0.7X, 0.75X, 1.5X, 2X
CTV Camera Port	Optional 0.3X / 0.5X / 1.0X adapters, compatible with consumer 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
6745T Observation Head	1pc	
B9 Base	1pc	
10X/20mm Eyepiece	2pcs	
Rubber Eyeguard	2pcs	
0.5X CTV Camera Port 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	