



## FZ12 Stereo Zoom Microscopes



## Viewing Heads

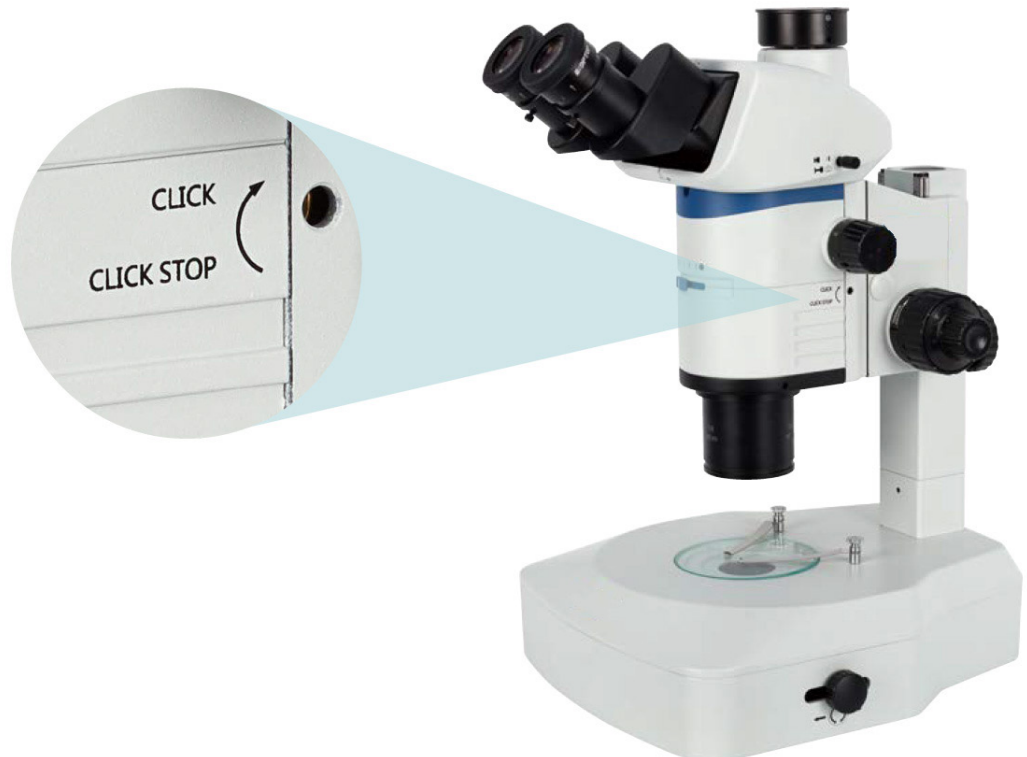


Two trinocular heads are available:

- Trinocular 30° inclined viewing head, rotates 360°. Interpupillary distance adjustable from 50mm - 76mm. When beam splitter is engaged 50% of light is directed to camera port with remaining 50% going to eyepiece.
- Ergonomic Trinocular viewing head adjustable from 5° - 45°. Interpupillary distance adjustable from 50mm - 76mm. When beam splitter is engaged light is directed to the camera port and eyetubes go dark.

## Zoom System

Zoom objective system 0.63x ~ 8x, zoom ratio 12.5:1 with built in aperture diaphragm. Click stops at 0.63x, 0.8x, 1x, 1.25x, 1.6x, 2x, 2.5x, 3.2x, 4x, 5x, 6.3x, 8x.

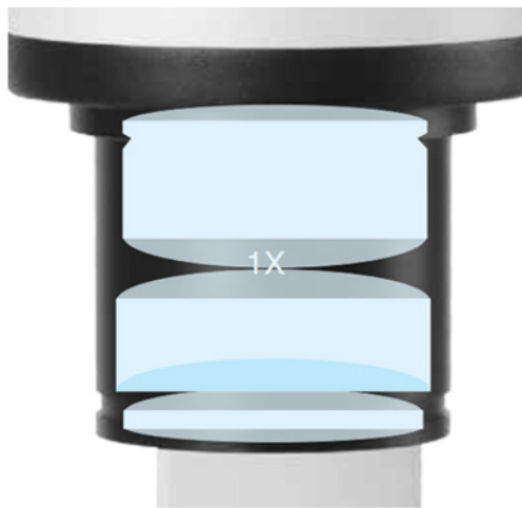


## Galileo Optical System

Galileo Optical System has a parallel common main (CMO) objective optical path allowing for image definition and in focus viewing throughout the full range of focus.



## Apochromatic Objective



The apochromatic objective design corrects the axial chromatic aberration of red, green, blue, and purple, and converges them on a focal plane improving the sample color accuracy.

## Adjustable Aperture Diaphragm

Adjustable Aperture diaphragm to adjust depth of field for high quality imaging.



## Eyepieces



High eyepoint, widefield, focusable eyepieces:

- PL WF10x/22mm with reticle retaining ring.
- WF15x/16mm with reticle retaining ring.
- WF20x/12mm.



## C-Mount Adapters



- Focusing 0.5x C-Mount Adapter (for use with 1/2" camera chip)
- Focusing 0.65x C-Mount Adapter (for use with 2/3" camera chip)

## Objectives



Plan Apochromat 1x, WD = 78mm

### Plan Achromat

- Plan Achromat 0.5x, WD = 198.5mm
- Plan Achromat 1x, WD = 90mm
- Plan Achromat 2x, WD = 33.5mm



Auxiliary Lens	Working Distance	10x/22mm Eyepieces		15x/16mm Eyepieces		20x/12mm Eyepieces	
		Magnification	Field Size	Magnification	Field Size	Magnification	Field Size
1x Apochromat	78mm	6.3x-80x	35mm - 2.8mm	9.45x-120x	23.3mm-4.2mm	12.6x-160x	17.5mm-1.4mm
0.5x Plan Achromat	90mm	3.15x-40x	70mm-5.6mm	4.73x-60x	46.6mm-8.4mm	6.3x-80x	35mm-2.8mm
1x Plan Achromat	100mm	6.3x-80x	35mm - 2.8mm	9.45x-120x	23.3mm-4.2mm	12.6x-160x	17.5mm-1.4mm
2x Plan Achromat	33.5mm	12.6x-160x	17.5mm - 1.4mm	18.9x-240x	11.65mm - 2.1mm	25.2x-320x	8.75mm-0.7mm

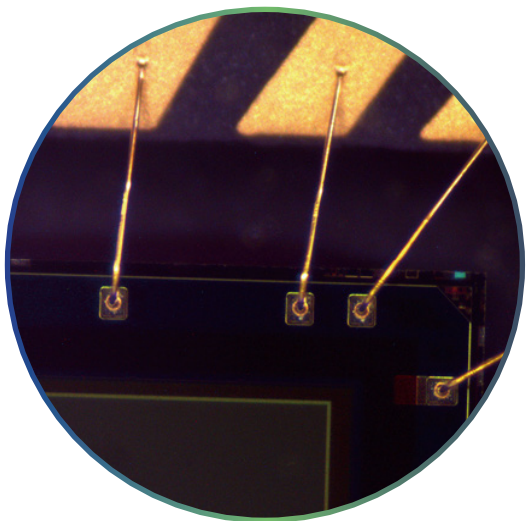


## Brightfield / Darkfield Transmitted LED Stand

Transmitted illumination with external 20w LED light box. 110v-240v with variable intensity control and single flexible light guide.

Built-in 360° rotatable mirror for brightfield and darkfield observation.

100mm ø clear glass stage plate.



### Focusing

Coaxial fine and coarse focusing with integrated focus holder. Focusing range of 50mm and fine precision 0.002mm.

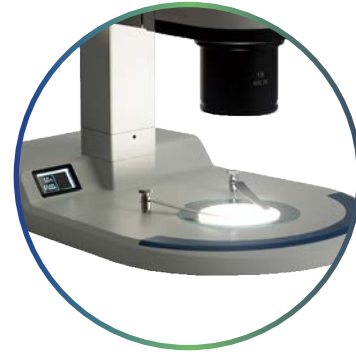


## ILB Stand with Transmitted LED Stand with Color Temperature Read Out



Ultra thin base with transmitted 5W multi-LED illumination. Adjustable illumination intensity.

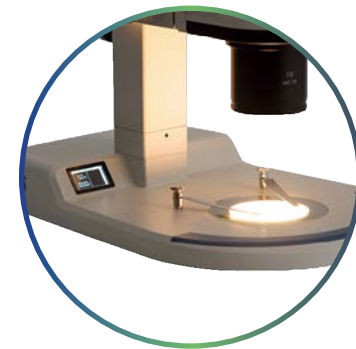
100mm glass stage plate and stage clips.



**5600K Cool Temperature**

### Adjustable Color Temperature

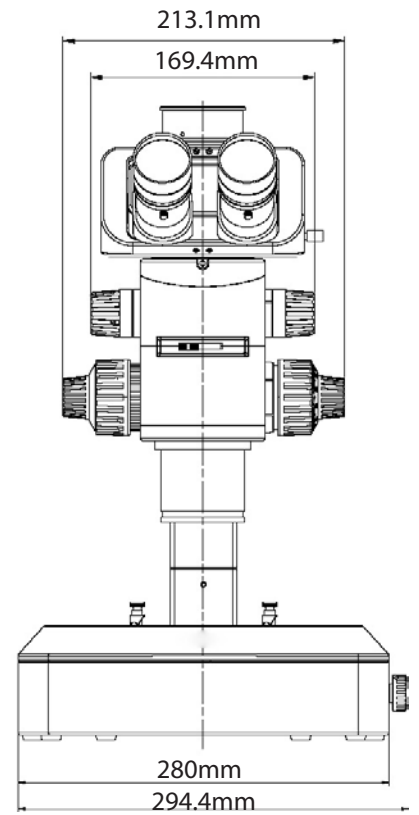
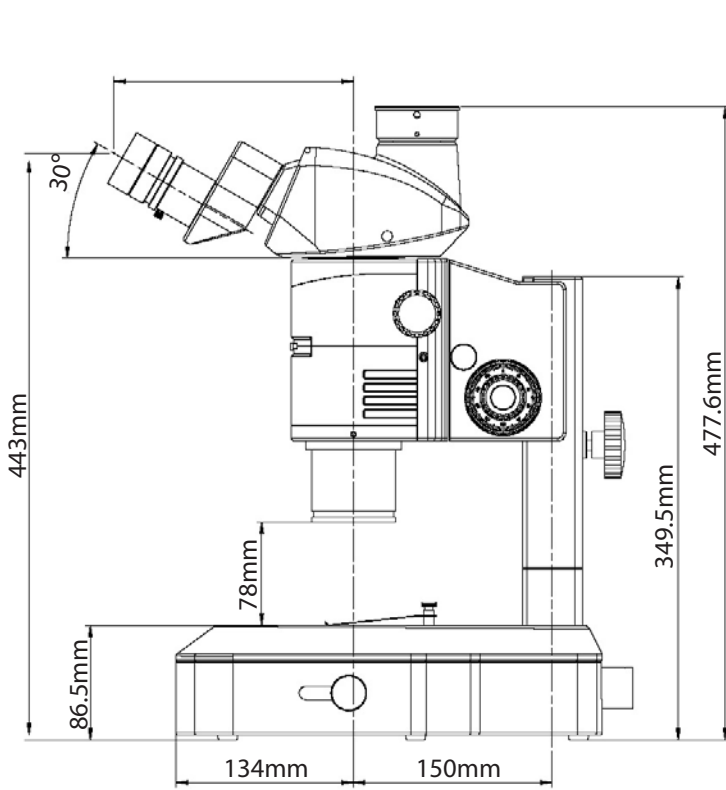
Adjustable color temperature with LCD display for light intensity and color temperature readout. Color temperature adjustment 3200-5600K for white or warm light.



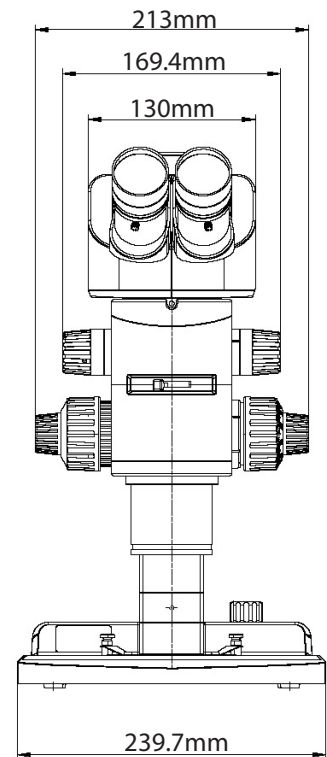
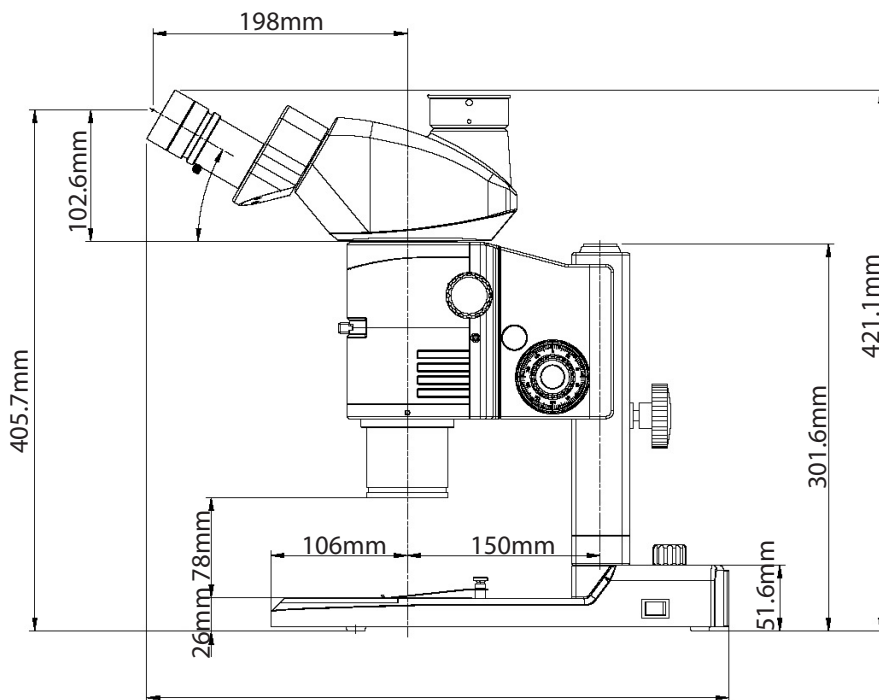
**3200K Warm Temperature**



## FZ12-BFDF



## FZ12-ILB





# FZ12 Stereo Microscope Specifications

Optical System	Galileo Optical System, Common Main Objective.
Viewing Head	Trinocular 30° inclined viewing head, rotates 360°. Interpupillary distance adjustable from 50mm~76mm. 50:50 when beam splitter is engaged 50% of light is directed to camera port with remaining 50% going to eyepiece.
	Ergonomic 45° inclined trinocular head. Interpupillary distance adjustable 50~76mm. Beam splitter sends light 100% to eyepieces or 100% to camera port.
Eyepieces	PL WF10x-F widefield, high eyepoint, focusing eyepieces, FN22mm, with reticle retaining ring for 24mm diameter reticle.
	WF15x-F widefield, high eyepoint, focusing eyepieces, FN16mm, with reticle retaining ring for 24mm diameter reticle.
	WF20x-F widefield, high eyepoint, focusing eyepieces, FN 12mm.
Objectives	Plan Apochromat Objective 1.0x, WD = 78mm
	Plan Achromat Objective 0.5x, WD = 198.5mm
	Plan Achromat Objective 1.0x, WD = 90mm
	Plan Achromat Objective 2x, WD = 33.5mm
Working Distance	78mm when using 1x Plan Apochromat Objective, see above if alternative lens is used.
Body	Zoom Ratio: 12.5:1. Zoom Range 0.63x - 8x. Built-in aperture diaphragm. Detent at 0.63x, 0.8x, 1x, 1.25x, 1.6x, 2x, 2.5x, 4x, 5x, 6.3x, 8x. Detents can be engaged or disengaged.
Focusing	Coaxial coarse and fine focus system, integrated body with focus holder. Focusing range of 50mm and fine precision 0.002mm.
Stand	BFDF Stand: Built-in 360° rotatable mirror for brightfield and darkfield observation. Transmitted illumination with High Intensity LED light box and single flexible light guide. 322mm x 295mm x 494mm.
	ILB Stand: Multi-LED 5W illumination with light intensity and color temperature read out. (3200K - 5600K). 453mm x 240mm x 406mm
Illumination	BFDF Stand: High Intensity LED Light box, 20w LED illumination with variable intensity control for transmitted illumination. 110v~240v.
	ILB Stand: Transmitted 5w multi-LED color adjustment with read out. Color Temperature 3200-5600K. 110v~240v.
C-Mount Adapters	Focusing C-Mount adapters 0.5x, 0.65x

