



500 ELK STREET
BUFFALO, NEW YORK 14210
1-716-332-3590
1-866-723-3658 (Toll Free)
1-716-856-6023 (Fax)
Website: www.usmicro-optical.com
E-mail: sales@usmicro-optical.com

U.S. MICRO-OPTICAL SOLUTIONS
USZ-4 STEREO ZOOM MICROSCOPE

U.S. MICRO-OPTICAL SOLUTIONS USZ-4 STEREO ZOOM MICROSCOPE

SOLUTIONS FOR INDUSTRIAL and EDUCATIONAL APPLICATIONS

5

YEAR
WARRANTY



The **USZ-4** is a new, sharp multi-functional stereo zoom microscope. This high resolution model has a wide field of view, long working distance and with the wide range of accessories offered, it can be the microscope of choice for industry and education. The configured magnification range of 3.5x-120x will meet most application needs.

VIEWING BODY

The binocular head rotates 360° and is inclined at a 60° angle for easy viewing. The pod features interpupillary adjustment and right eye dioptic adjustment.

EYEPIECES

10x widefield with 18mm or 22mm diameter field of view.

ZOOM OPTICS

The 0.7x-3.0x primary magnification produces an image magnification of 7x-30x when using the standard 10x eyepieces. With optional eyepieces and objectives, your magnification can range from 3.5x to 120x.

FOCUSING ADJUSTMENT

Large knurled knobs drive a rack and pinion system that allows smooth focusing. The adjustable tension system can be easily set to suit the individual users need.

STAND

Rugged die cast aluminum stand and plated metal post with restrictor ring to avoid accidental slippage. Optional stands, and holders are available.

ARM & UPRIGHT ASSEMBLY

Die cast aluminum arm is mounted to a rack and pinion upright focus assembly.

ILLUMINATION

The base (transmitted) illumination is a 9W fluorescent lamp while the incident (upper) lamp is a variable 20W halogen. Fluorescent, LED and fiberoptic ring lights are available for special applications.

STAGE

Cast aluminum stage platform comes with a frosted glass stage plate and metal stage clips to retain your sample. Optional solid black/white reversible stage plates are available.

USZ-4



MODEL USZ-4 F

USZ-4 SPECIFICATIONS

Viewing Head	<i>Binocular</i>
Head Rotation	<i>360°</i>
Head Incline	<i>60°</i>
Interpupillary Adjustment	<i>46mm to 75mm</i>
Dioptric Adjustment	<i>Right eyetube adjustable (+/-5mm)</i>
Eyepiece Magnification	<i>10x Widefield</i>
Eyepiece Field Diameter	<i>18mm or 22mm</i>
Optional Eyepieces	<i>15x (14mm F.O.V.), 20x (11mm F.O.V.)</i>
Optional Supplementary Lenses	<i>0.5x, 2.0x Objective</i>
Magnification Range	<i>7x-30x (Maximum Configured Range 3.5x-120x)</i>
Working Distance	<i>97mm</i>
Arm Ring I.D.	<i>88mm</i>
Stage Plate	<i>Frosted Glass Plate (Optional Black & White Reversible)</i>
Stage Clips	<i>Spring Tension</i>
Focusing Movement	<i>55mm (Adjustable Torque)</i>
Vertical Max. Extension	<i>270mm (From Base to Pod)</i>
Upper Illumination	<i>Variable Incident Light 6V-20 Watt Halogen</i>
Lower Illumination	<i>Transmitted Light 120V 9W Fluorescent</i>
Base Dimensions	<i>11in. X 7-7/8in. 280mm x 200mm (approx.)</i>
Weight	<i>13 lbs. (6 kg)</i>



MAGNIFICATION CONFIGURATIONS

Eyepiece	Supplementary Objective	Magnification Range	Working Distance	Field of View Dia.
10x	0.5x	3.5x-15x	140mm	51.4mm-12mm
	1.0/NONE	7x-30x	97mm	25.7mm-6mm
	2.0x	14x-60x	50mm	12.8mm-3mm
15x	0.5x	5.25x-22.5x	140mm	40mm-9.4mm
	1.0/NONE	10.5x-45x	97mm	20mm-4.7mm
	2.0x	21x-90x	50mm	10mm-2.3mm
20x	0.5x	7x-30x	140mm	31.4mm-7.4mm
	1.0/NONE	14x-60x	97mm	15.7mm-3.7mm
	2.0x	28x-120x	50mm	7.9mm-1.8mm



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