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U.S. MICRO-OPTICAL SOLUTIONS  
**USM-2 STEREO 2-STEP MICROSCOPE**

# U.S. MICRO-OPTICAL SOLUTIONS USM-2 STEREO 2-STEP MICROSCOPE

SOLUTIONS FOR INDUSTRIAL and EDUCATIONAL APPLICATIONS

# 3

YEAR  
WARRANTY



The **USM-2** "Master" 2-Step Stereo Microscope is a high end stereo for industry and/or classroom. Available in both 1x-3x or 2x-4x primary magnifications. This scope, with its superior optics is the obvious scope of choice.

## VIEWING BODY

The binocular head rotates 360° and is inclined at a 45° angle for easy viewing. The pod features interpupillary adjustment.

## EYEPIECES

Eight different eyepieces are available for this 2-Step. The eyepiece of choice is the 10x (22mm F.O.V.) Focusable (+/-5mm dioptic) which is standard on all models.

## OPTICS

Primary magnification options are 1x-3x or 2x-4x. With various pods and eyepieces, your magnification can range from 10x-80x.

## FOCUSING ADJUSTMENT

Knurled knobs drive an all metal rack and pinion system that allows smooth focusing.

## STAND

Rugged die cast aluminum stand with a cast upright and arm assembly. The plastic pod sleeve is removable allowing you to use this stand for the USZ-6 Stereo Zoom Microscope.

## ILLUMINATION

The base (transmitted illumination) is a 12V-10 Watt Halogen lamp while the upper (incident) lamp is a 12V-20 Watt Halogen filtered "daylight" light.

## STAGE

The large 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.

## USM-2



## USM-2 SPECIFICATIONS

Viewing Head	<i>Binocular</i>
Head Rotation	<i>360°</i>
Head Incline	<i>45°</i>
Interpupillary Adjustment	<i>51-79mm</i>
Dioptric Adjustment	<i>Eyepiece Specific</i>
Eyepiece Magnification	<i>10x Focusable Standard</i>
Eyepiece Field Diameter	<i>22mm Standard</i>
Optional Eyepieces	<i>10x, 16x, 20x</i>
Magnification Range	<i>10x-80x (See Magnification Chart)</i>
Working Distance	<i>70mm</i>
Arm Ring I.D.	<i>76mm (Sleeved to 63.5mm for 2-Step Model)</i>
Stage Plate	<i>Frosted Glass Plate (Optional Black &amp; White Reversible)</i>
Stage Clips	<i>Metal - Spring Loaded</i>
Focusing Movement	<i>85mm</i>
Vertical Max. Extension	<i>130mm (From Base to Pod)</i>
Upper Illumination	<i>Incident 12V-20 Watt Halogen</i>
Lower Illumination	<i>Transmitted 12V-10 Watt Halogen</i>
Overall Dimensions (approx.)	<i>7" x 9-1/2" x 15"h (178mm x 241mm x 381mm)</i>
Weight (approx.)	<i>8.5 lbs. (3.85 kg)</i>



## MAGNIFICATION CONFIGURATIONS

Eyepiece	Field of View	Maximum Configured Magnification Ranges			
		1x-3x	10x-30x	2x-4x	20x-40x
10x	20mm/22mm	1x-3x	10x-30x	2x-4x	20x-40x
16x	16mm	1x-3x	16x-48x	2x-4x	32x-64x
20x	12mm	1x-3x	20x-60x	2x-4x	40x-80x

All eyepieces are available fixed or focusable.



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