

# Compound Microscope - Home Science Tools

## Laboratory Dual-head Microscope Laboratory Trinocular Microscope



### Product Details

- 10x wide-field eyepieces
- 360° rotating head with one 30° inclined eyepiece and one vertical eyepiece with diopter
- 4x (0.10 NA), 10x (0.25 NA), 40xR (0.65NA) and 100xR (1.25 NA) deluxe objectives are DIN achromatic, parcentered, parfocaled, and color coded
- Large 140 x 135mm stage with stage stop and integrated mechanical stage with low-position coaxial x-y controls and 70mm (x) by 50mm (y) movement with graduations of 0.1mm
- Adjustable 1.25 NA Abbe condenser with rack-and-pinion focusing and an iris diaphragm for contrast control
- Swing-out filter holder with clear blue, green, and yellow contrast filters
- 20-watt, 12-volt extra-bright halogen illumination with a variable rheostat for precise lighting control
- Special wiring for 220 volt use is available
- Field of view is 4.5mm at 40x and 0.18mm at 1000x
- Working distance ranges from 18.5mm at 4x to 0.06mm at 1000x

[Home Science Tools store](#)

## Compound Microscope - AmScope



### Trinocular microscope for Lab clinic 40x-1600x

#### Specifications :

- Nosepiece: quadruple
- Mechanical Tube Length: 6-5/16" (160mm)
- Head: 360° swiveling compensation free trinocular head inclined at 30°
- Eyepieces: WF10X and P16X
- Achromatic Objectives: 4X, 10X, 40X (spring), 100X (spring, oil)
- Stage Dimensions: 5-1/2"x 5-1/2" (140x140mm)
- Stage Traveling Range: 2-15/16"x 1-3/4" (75x45mm)
- Focusing Range: 1-3/16" (30mm)
- Division of Fine Focusing: 0.0000787" (0.002mm)
- Abbe Condenser: NA=1.25 with rack and pinion focusing control
- Illumination: 6V/20W intensity-variable halogen bulb
- Power Supply: 110V (220V version available), CE certified
- Accessories: 6V/20W spare halogen bulb, bottle of immersion oil, blue, green & yellow filters
- Microscope Dimensions: 12" x 9" x 16"
- Weight: 20 lbs

[Precision World store](#)

[AmScope Store](#)

## Compound Microscope - AmScope

Changing head for a Zeiss binocular



Microphotography with  
Nikon Coolpix 5400 and adapter  
[Microscope World \(Adapters\)](#)



# Compound Microscope - AmScope

## Trinocular polarizing microscope 40x-600x



### Specifications :

- Eyepieces: PLAN10X (22mm field of view) flat-field eyepieces with eye-guard and PL10X22mm with reticle
- Objectives: infinity Plan distressing objectives: 4XS, 10XS, 40XS, 60XS
- Head: 30° inclined, trinocular head
- Midst Head: build-in analyzer and Bertrand lens, rotating range of analyzer: 90°, a dose value of vernier 6', being able to shift out the optical way. With Bertrand lens diverter and focusing handwheel, centering adjustment
- Compensator:  $\lambda$  plate (f18mm, first-order red, light path aberration: 551nm);  $\lambda/4$  plate (f18mm, light path aberration: 147.3nm); Quartzose chock (12×28mm, I - IV)
- Nosepiece: quadruple
- Stage: rotatable circular, 360° rotatable circular worktable, a dose value of mark 1, a dose value of vernier 6'
- Condenser: NA1.2/0.22 swing type achromatic condenser
- Polarizer: 360° (0°/90°/180°/270° four type graduation) rotatable vibration, apparatus with locking, being able to shift out the optical way
- Illumination: Koehler illuminator system, 6V/30W halogen bulb, adjustable brightness, CE certified
- Power Supply: 90V~240V fluctuate of voltage
- Total Overall Height of Microscope: 485mm
- Weight: 32 lbs

[Precision World store](#) (Polarizing list)

# LOMO Microscope 44x – 2500x

## MULTISCOPE™ TRH4-POL TRINOCULAR POLARIZED

This microscope include a magnification changer



LOMO® Multiscope™ TRH4-POL-V, F or E. The Multiscope™ TRH4-POL offers an unsurpassed optical magnification range from **44x - 2,500x** due to its unique, built-in, 3-position **magnification changer with 1.1x, 1.6x, and 2.5x positions**. Combine that with your choice of adapters for 35mm, video and digital cameras and just about anyone can afford an excellent photomicrography microscope package.

**Magnification Changer** All trinocular **Multiscopes™** come with LOMO's **HT-30** trinocular head. The **HT-30** includes a unique and versatile dial-in field-flattening, magnification-changer capable of boosting magnifications by up to 250%!

The rotating magnification changer has 4 positions.

The first three positions have magnification values of 1.1x, 1.6x and 2.5x, respectively.

In using standard 10x wide field eyepieces ...

**With 4x objective, you can obtain magnifications of 44x, 64x or 100x.**

**With 10x objective, you can obtain magnifications of 110x, 160x or 250x.**

**With 40x objective, you can obtain magnifications of 440x, 640x or 1000x, and so on ...**

**With 100x objective, you can obtain magnifications of 1,100x, 1,600x or 2,500x.**

The fourth position of the magnification changer contains a Bertrand Lens.

This useful device looks into the objective back focal plane, which is beneficial for aligning the bulb in the optical system, aligning phase rings for phase contrast, and looking at interference figures using polarized light. Such a magnification range

requires an ultra-precise focusing system. The "**FineWheel™**" fine focus control is ergonomically placed in the base of the microscope to limit unnecessary hand movement, and is coupled to one of the smoothest, most precise focusing systems in the microscope industry.

[Optics Planet store](#)

# PHASE CONTRAST MICROSCOPE - AmScope

## COMPOUND MICROSCOPE TRINOCULAR WITH TURRET PHASE CONTRAST

### Specifications :

- Phase Contrast: Turret Brightfield and Darkfield
- Phase Contrast Objectives: Plan 10Ph/0.25, 20Ph/0.40, 40Ph/0.65, 100Ph/1.25 Oil
- Phase Contrast Condenser: NA 1.25
- Phase Contrast Lens: CT
- Nosepiece: quadruple
- Mechanical Tube Length: 6-5/16" (160mm)
- Head: trinocular sliding head inclined at 45°
- Wide-Field Eyepiece: WF10X & P16X
- Interpupillary Distance: 2-3/16" - 3-0" (55 - 75mm)
- Achromatic Objectives: 4X, 10X, 40X (spring), 100X (spring, oil)
- Stage Dimensions: 5-1/2"x 5-1/2" (140x140mm)
- Stage Traveling Range: 2-15/16"x 1-3/4" (75x45mm)
- Focusing Range: 1-3/16" (30mm)
- Division of Fine Focusing: 0.0000787" (0.002mm)
- Abbe Condenser: NA=1.25 with rack and pinion focusing control
- Illumination: halogen bulb, 6V/30W
- Power Supply: 110V, CE certified
- Accessories: 6V/30W spare halogen bulb, bottle of objective oil, and blue, green & yellow filters
- Microscope Dimensions: 12" x 9" x 16"
- Weight: 28 lbs
- Packages: 2 lbs



[Precision World store](#) (Phase Contrast list)

# METALLURGICAL MICROSCOPE - AmScope

## BRIGHT / DARK FIELD POLARIZING METALLURGICAL MICROSCOPE



### Specifications :

- Optical system: color corrected infinity optical system (CCIS)
- Eyepieces:  
PL10X high point Plan eyepieces with  $\phi$ 22mm field of view and  
PL15X high point Plan eyepieces with  $\phi$ 16mm field of view
- Head: 25°inclined gemel trinocular with vertical image and 100% prismatic rate
- Nosepiece: build-in quintuple nosepiece with BF and DF
- Objective: infinity Plan Achromatic metallographical 5X/0.17/12, 10X/0.25/6, 20X/0.4/5, 50X/0.7/2, 80X/0.8/1 for both BF and DF
- Focusing System: coaxial coarse and fine; moving range: 33mm, fine precision: 0.001mm
- Stage: 6" rectangle mechanical stage; moving range: 158mm x 158mm; low hand adjustment and clutch for swift moving control
- Illuminator: reflected Kohler illuminator with BF and DF; 12V/100W halogen; digital adjustment of brightness and light renew function
- Power Supply: 110V (220/240V version available)
- Weight: 60 lbs
- Packages: 2 (40 lbs + 20 lbs)

[Precision World store](#) (Metallurgical list)

# INVERTED MICROSCOPE - AmScope

## PHASE CONTRAST INVERTED TISSUE CULTURE MICROSCOPE



### Description :

NAME	SPECIFICATIONS
Optical	CSIS Infinity chromatic correction optical system
Head	Gemel type of trinocular head, 45° inclined
Eyepiece	PL10X and 15X high eye-point plan eyepiece, FN 22mm
Nosepiece	Quintuple Nosepiece
Objective	Plan and infinity long work distance achromatic objective: LWD PL4X, 10X, 20X, 40X, 60X Plan and infinity long work distance phase contrast objective: LWD PH10X, 20X, 40X
Focus	Coaxial focus system with torque and coarse adjustment ; Work distance: 38mm coarse adjustment, 0.2mm fine adjustment; precision 0.002mm
Stage	Size: 160x250mm, could fixed with sample holder, extending board and mechanical specimen holder
Illumination	Adopted 90-240V voltage, 6V/30W Halogen bulb, adjustable filament center and brightness
Condenser	Movable N.A.=0.3, WD72mm
Phase Contrast plug-in Plate	Adjustable phase center—10X/20X, 40X, bright field Phase center pre setting—10X/20X, 40X, bright field (optional)
Mechanical Specimen Holder	Optional regulator of low coaxing. Could assemble with various sample holders
Sample Holder	Optional slide holder, Terasaki holder and petri dish holder
Color Filter	Optional adjustable brightness color filter, monochrome contrast color filter, color temperature transition color filter and infrared-eliminating color filter
Triple Eye Tube	Could fixed with 135 camera, CTV and digital camera
Photo Tube	PK mount adapter and 3.2X photo eyepiece
TV Adapter	0.5X C-mount TV adapter with focusable lens

[Precision World store](#) (Inverted list)

# INVERTED MICROSCOPE - MicroscopeIndia

## Inverted Metallurgical Microscope 40x-1500x



Observation Head	Binocular Head is equipped with 45-deg. inclined observation tubes with adjustable inter-pupillary distance.  With camera port
Nosepiece	Quadruple revolving Nosepiece with accurate centring and positive click stops.
Stage	Large sturdy coaxial arrangement for x-y movement.
Illumination	Brightfield vertical illuminator 6V-20W Halogen with aperture diaphragm, filter slots and bulb centring mechanism.
Objectives	Corrected flat field achromats M4X-M10X- M40X SL.&M100x oil
Eyepieces	Wide field 10X and H15X (paired).



## Inverted Tissue Microscope Phase contrast 40x – 400x

Observation Head	45-degrees inclined Binocular head interchangeable with Monocular or Trinocular observation head.
Nosepiece	Quadruple revolving turret nosepiece with positive accurate click stops.
Stage	Oversize plain stage 180 x 150mm with 2 extension plates 150 x 65mm for large bottles and microfilter work.
Illumination	Based on Koehler's system is provided by a post-mounted high intensity 6 volts 20 watts Halogen illuminator.
Objectives	Phase Contrast Objectives 4x, PH10x, PH LWD 20x & PH LWD-40XSL.
Eyepieces	HWF 10x (paired) with eye guards.

[Microscope India Store](#)

## OTHER MICROSCOPES

**Classic microscope  
Monocular Euroscope  
50x 100x 400x 1000x**



**Stereoscope  
Low power 20x & 40x**



**Digital Microscope QX3  
by Intel Play  
Power : 10x 60x 200x**



[Old link from Radio Shack](#)

**Toy - Screen Microscope  
Power : 30x 60x 100x**



**Direct measure 100x**



**The NEW QX5**

