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**RAYSCOPE**  
M I C R O S C O P E S

# RAYSCOPE

*The Microscope Specialists*



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# RAYSCOPE

## OVERVIEW

Rayscope is a established and reputed manufacturer of Microscopes & Precision Optics born in the year 2000. We have been in the business of manufacturing of high-tech precision microscopes including stereo microscopes, compound microscopes, Surgical microscopes, digital microscopes, industrial microscopes and a great selection of accessories with a wide range of application specific Optics for the last 20 years. Since then we are relentlessly innovating newest products which may suit optimally with our client's changing requirements and expectations. Our basic aim is to provide quality equipment and dedicated customer service to our valuable customers.

We have obtained ISO 9001:2015 and 13485:2016 for our microscopes, application specific cameras and precision optics bearing the brand name "RAYSCOPE" . We have also obtained European CE and US FDA certificate for our whole product range. Our entire production process is carried out under strict watch of quality experts.

Our entire product range is manufactured in a state-of-the-art infrastructure with technologically advanced automated tools & machineries. The Robust infra structural base has made us competent in efficiently carrying out activities like marketing, sales support, development, logistics and manufacturing. We have a huge and established network in India; The network is well-supported with transportation facility that has assisted in meeting the requirements of the markets within predetermined time line. Our key success is the result of the deep understanding of our consumers, innovative designs, superior craftsmanship and innovative spirit of our dedicated staff members.

Last but not the least we would like to convey our sincere gratitude to our most valued customers who have been patronizing our entire product range and services with unflinching confidence.

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# RAYSCOPE

## Quality Policy

Quality Scientific & Mechanical Works has ushered onto the path of accelerated growth since its establishment in the year 2000. The logical ideas and effective methods to handle the managerial activities have assisted the company to acquire distinguished position amidst the dependable Industrial & Medical Optical Manufacturers in India. The company has also earned loads of appreciation in the market for dealing and its impressive practice in optical field.

## Infrastructure

Our state-of-the-art infrastructure is backed with technologically advanced tools & machineries and automation that assist in the quality and quantity production of Optics. The Robust infra structural base has also made us competent in efficiently carrying out activities like marketing, sales support, development, logistics and manufacturing.

## Quality Assurance

Owing to the priority to serve quality products, various stringent quality tests are conducted from the very initial stage of deployment of raw materials in the processing unit to the final stage of packaging of instruments. For fuller assurance of the quality, the optics is tested by our quality control executives and the quality policy is also revised at frequent basis.

## Network

We have a huge and established network in India; also we are exporting our optics worldwide, directly from India. The network is well-supported with transportation facility that has assisted in meeting the requirements of the markets within predetermined timeline. The network has also been the prime reason of huge clientele.

## Pricing

Since we have our own Manufacturing Plant, CNC & VMC Machines, Paint Shop, Lens Making Unit & Coating Plant all under one roof, It helps not only on reducing cost of production marginally less but also increasing the quality control. That's why the rates offered are really competitive and with best possible quality.

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## Dissecting Microscope **RYS-2**

- Application: Small organisms and for dissection work study
- Base: Heavy round cast iron base for greater stability
- Eyepiece pipe, knobs & lens holding arm.
- Plates: Black and white plate with wide square glass
- Stage : 85mm X 75mm with 2 stage clips.
- Hand rests: Both sides detachable
- Focusing mechanism: Rack & Pinion
- Eyepieces: Optical glass
- Magnification 10x and 20x
- Revolving arm allowing the whole stage area to be scanned.
- Illumination: Plano-Concave reflector mirror fitted in fork.
- Packaging: Quality thermocol case,  
Dust cover for accessories & cleaning cloth.



## Dissecting Microscope **RYS-3**

Monocular

- Heavy round base with a beautiful designed body.
- Easy lifting and movement convenience.
- Joint revolving arm for moving the magnifying lens over full range.
- Wide glass stage with spring stage clips to easily remove thick glass plate
- Arrangements for inserting white or black plate respective background.
- Detachable metallic hand rests for easy working during dissection.
- Smooth rack & pinion mechanism knobs on both sides for sensitive focusing.
- Plano-concave mirror in fork to provide illumination in day light /artificial light.
- Stopper to limit the downward movement of the stage.
- Packed in a styrofoam moulded box with provision for placing eyepieces, hand rests and magnifying glass.





## Student Microscope Fixed Condenser **RYS-5**

Monocular

- Viewing Head: Monocular 90 Degree
- Eyepiece: Huygenian 15x, 10x or WF10X
- Nosepiece: Triple, Upright
- Objective: RYS series JIS Achro 10x, 40x(SL)
- Mechanical Stage: 120x120mm with clip
- Focusing Movement: Separate Coarse and Fine movement
- Condenser Moveable: Fixed Abbe N A 1.25 with Iris Diaphragm
- Light Source: Plano concave mirror
- Optional LED Substage Lamp
- Carrying Case: Styrofoam Packing
- Supplied with: Manual & Dust cover

- Optional Accessories:  
Wooden carrying case, LED Lamp, WF10X

## Student Microscope Moveable Condenser **RYS-7**

Monocular

- Viewing Head: Monocular 90 degree
- Eyepiece: Huygenian 15x, 10x or WF10X
- Nosepiece: Triple, Upright
- Objective: RYS JIS Achro 10x, 40x(SL)
- Mechanical Stage: 120x120mm with clip
- Focusing Movement: Separate coarse and fine movement
- Condenser: Moveable Abbe N A 1.25 with iris diaphragm
- Light Source: Plano concave mirror
- Optional LED Sub stage lamp
- Packaging: Styrofoam carrying case with Manual & Dust cover

- Optional Accessories:  
Wooden carrying case, LED Lamp, WF10X



**Medical Microscope****RYS-9**

- Viewing Head: Monocular 90 Degree
- Eyepiece: Huygenian 15x, 10x
- Nosepiece: Triple, Upright
- Objective: RYS JIS Achro 10x, 40x(SL) and 100X (SL)
- Mechanical Stage: 120x120mm with XY movement
- Focusing Movement: Separate Coarse and Fine movement
- Condenser Moveable: Moveable Abbe N A 1.25 with Iris Diaphragm
- Light Source: Plano concave mirror . Optional LED substage lamp
- Filter: Blue
- Carrying Case: Styrofoam Packing
- Supplied with: Manual & Dust cover
- Optional Accessories: Wooden carrying case, LED Lamp, WF10X

**Monocular Microscope****RYS-20**

- Viewing Head: Monocular tube, 45° inclined, 360° rotatable
- Eyepiece: Wide Field eyepiece WF 10x, FOV 18mm
- Nosepiece: Quadruple nosepiece
- Objective: RYS series Semi PLAN JIS Objective 4X, 10X, 40X (S) and 100X Oil, (S)
- Mechanical Stage: Single Plate Graduated Mechanical rectangular stage, size 140 x 140mm with cross travel 90 (X) x 65mm (Y) on ball bearing with co-axial controls
- Focusing Movement: Separate coarse & fine focusing mechanism.
- Condenser: Moveable ABBE Condenser, center able, NA 1.25 with aspheric lens. Iris diaphragm, Swing-in and swing-out filter holder
- Light Source: Illumination system LED 3.5w 3v or halogen 6v 20w (either One) CE approved.
- Carrying Case: Styrofoam Packing
- Supplied with: User manual, Vinyl Dust cover, Cleaning cloth
- Optional Accessories: Wooden carrying case.





## Bino/Trinocular Microscope **RYS-22**

- Optical System: Finite Colour corrected
- Viewing Head: Sliding Bino/Trino head, 45° inclined , 360° rotatable
- IPD: 54-75mm
- Eyepiece : Widefield 10x /18mm
- Nosepiece : Reverse angle quadruple
- Objectives: RYS series JIS Semi plan  
Achromatic objectives 4X,10X,40X (Spring Loaded) and 100X(Spring loaded, oil).
- Mechanical Stage: Single Plate size 140mmx140 movement control
- XY Travel Range: 90mmx65mm
- Focusing: coarse and fine on gear system separate
- Condenser: Substage Abbe | N.A 1.25 Iris diaphragm frosted white/blue filter
- Illumination: Built in base illumination system | 6V 20W halogen bulb
- Supplied: with Styrofoam Packing
- Standard Accessories: Power cord (5Ft),Immersion oil,Spare Bulb(in Halogen only),  
Cleaning cloth, Nylon Dust cover, Styrofoam Packing

## Research Microscope **RYS Infistar**

Monocular

- Design: Aluminium die-cast stand with ergonomic hand rests
- Viewing Body: Monocular 45° inclined, 360° rotatable
- Eyepieces: Wide field 10x/18mm - focusable, foldable, lockable, antifungal coating
- Nosepiece: Quadruple turret (Ball bearing type) with rubber grip
- Objectives: RYS series JIS Semi-Plan  
Achromatic objectives: JIS 4x, 10x, 40x (spring loaded),  
100x (spring loaded, oil), antifungal
- Mechanical stage: Single plate rectangular stage 140 x 140mm
- XY Travel Range: 90mm x 65mm
- Low drive movement controls, single specimen holder,  
hard coated for scratch resistance
- Condenser Sub stage: Abbe condenser NA 1.25 with aspheric lens
- Iris diaphragm with cassette type filter holder
- Rack and pinion movements on metal guides
- Focusing: Separate coarse and fine focusing on ball drive system
- Brass rack and pinion stage drive
- Fine drive movement 0.2mm/rotation
- Illumination: 3W LED or Halogen 6V-20W illumination with variable control
- Life: Up to 100,000 hours of LED life & 2,000 hours of Halogen lamp life
- Electronics Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer





## Bino/Trinocular Microscope RYS Infystar

- Stand: Aluminium die-cast with ergonomic hand rests
- Viewing Body: Sliding Binocular/trinocular 45° inclined, 360° captive rotatable, IPD 50 - 75mm
- Eyepieces: Widefield 10x/18mm with foldable, lockable eye guard, antifungal coating
- Nosepiece: Quadruple turret (Ball bearing type) with rubber grip
- Objectives: RYS series JIS Semi-Plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), antifungal
- Mechanical stage: Single plate rectangular stage 140x140mm
- XY Travel range: 90mm x 65mm
- Low drive movement controls, single specimen holder, hard coated for scratch resistance.
- Condenser: Sub stage Abbe NA 1.25 with aspheric lens
- Iris diaphragm with cassette type filter holder
- Rack and pinion movements on metal guides
- Focusing: Separate coarse and fine on ball drive system
- Brass rack and pinion stage drive
- Fine drive movement 0.2mm/rotation
- Illumination: 3W LED or Halogen 6V-20W with variable control
- Life: Up to 100,000 hours of LED life & 2,000 hours of Halogen lamp life
- Electronics Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer



**RYS Infystar B**

**RYS Infystar T**



**RYS Infinix B**

**RYS Infinix T**

## Bino/Trinocular Research Microscope RYS Infinix

- Stand: Sturdy with anti-rust materials and ergonomic base for hand rest
- Viewing Body: Sliding Binocular/Trinocular head, 45° inclined, 360° rotatable, with adjustable viewing height upto 40mm | IPD 50 - 75mm
- Eyepieces: Wide field 10x/18mm, lockable, antifungal
- Nosepiece: Precised quadruple nosepiece (Ball bearing type) with click stops and rubber grip
- Objectives: High performance Semi-Plan Achromatic DIN objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), antifungal
- Mechanical stage: Single plate stage 140 x 140mm
- XY Travel range: 90mm x 65mm with low-height controls
- Surface: Hard coated for scratch resistance
- Condenser: Sub stage Abbe condenser NA 1.25 with aspheric lens
- Iris diaphragm with blue daylight filter
- Rack and pinion movements on metal guides
- Focusing: Coaxial coarse and fine focus on ball drive system.
- Illumination: Intensity controlled LED (up to 50,000 hours of LED life) (optional 6V-20W Halogen illumination)
- Electronics: Universal input 100V - 240V AC, 50/60Hz Built-in voltage stabilizer



## Monocular Microscope RYS 700M

- Optical System: High Contrast Finite Plan Color Corrected
- Observation Head: 360 rotatable 30 inclined Monocular
- Eyepiece: Highpoint paired WF10X/18mm eyepiece  
Optional 10x/20mm
- Nosepiece: Reverse angle Quadruple
- Mechanical Stage: Rackless Double plate stage size 190x140mm
- X/Y Travel range: 90x65mm
- Double specimen stainless steel clip
- Objectives : RYS series DIN Semi Plan  
Achromatic objectives 4X, 10x, 40x ( Spring Loaded )  
100x (Spring Loaded , Oil)
- Condenser: Sub Stage Abbe condenser N.A. 1.25 with Aspheric Lens
- Iris diaphragm with frosted white/ blue filter
- Focusing Control: Co axial coarse and fine focusing on gear system
- Illumination: Halogen 6v 20W Light source or LED 3 W variable control
- Packing Contents: Power Cord, Dust Cover, Cleaning Cloth, Operation Manual, Styrofoam Case
- Electronics Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer

## Bino/Trinocular Research Microscope RYS 700

- Stand: Aluminium with hand rests for enhanced comfort and stability
- Viewing Body: Sliding type Binocular/Trinocular head, 30° inclined, 360° rotatable, IPD 50 - 75mm
- Eyepieces: Wide field 10x/18mm - anti-reflection & anti-fungal coating
- Nosepiece: Reverse angle quadruple (Ball bearing type) with click stops & rubber grip
- Objectives: i series RYS DIN Semi Plan  
Achromatic objectives 4x, 10x, 40x (spring loaded),  
100x (spring loaded, oil), anti fungal
- Mechanical stage: Rackless X axis, double plate | Size: 190x140mm
- XY Travel range: 75mm x 50mm
- Low drive right hand movement controls
- Hard coated surface for scratch resistance and double specimen holder clip
- Condenser Sub stage: Abbe condenser NA 1.25 with aspheric lens
- Iris diaphragm with blue daylight filter
- Rack and pinion movements on stainless steel guides
- Focusing: Coaxial coarse and fine on ball drive system
- Illumination: Halogen 6V-20W or 3W LED with variable control
- Life: Up to 2,000 hours of Halogen (20W) lamp life and 100,000 hours of LED life
- Electronics: Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer



**RYS 700 B**

**RYS 700 T**

**Binocular/ Trinocular  
Research Microscope****RYS 700**

- Optical System: High Contrast Finite Plan Color Corrected
- Observation Head: 360° rotatable 30° Siedentopf Binocular
- Eyepiece: Highpoint paired WF10X/20mm
- Nosepiece: Reverse angle Quadruple
- Optional (Quintuple)
- Mechanical Stage: Double plate rackless | Size 190x140mm
- XY Travel range: 75x50mm
- Double Specimen stainless steel clip
- Objectives: RYS series Plan Achromatic objectives 4X,10x,40x (Spring Loaded), 100x (Spring Loaded , Oil)
- Condenser: Sub Stage Abbe N.A. 1.25 with Aspheric Lens
- Iris diaphragm with frosted white/ blue Filter
- Focusing control: Co axial coarse and fine on Gear system
- Illumination: kohler Q-LED 3.5W 3V variable control
- Packing Contents: Power Cord, Dust Cover, Cleaning Cloth, Operation Manual, Styrofoam Case.

**RYS 700 Premium B****RYS 700 Premium T****RYS Iconic 77 B****RYS Iconic 77 T****Binocular/ Trinocular  
Research Microscope****RYS Iconic 700**

- Stand: Single mould Aluminium with hand rests
- Viewing Body: Siedentopf butterfly type Bino/ Trino head, 30° inclined, 360° rotatable, Interpupillary distance 50 - 75mm
- Eyepieces: Wide field 10x/20mm with anti-reflection & anti-fungal coatings
- Nosepiece: Reverse angle quadruple (Ball bearing type) with click stops & rubber grip optional quadruple
- Objectives: i series RYS DIN Plan Achromatic objectives 4x,10x,40x (spring loaded) 100x (spring loaded,oil), antifungal
- Mechanical stage: Rackless X axis, double plate stage size 190x140mm
- XY Travel range: 75mmx50mm
- Low drive right hand movement controls
- Hard coated surface for scratch resistance, Double specimen holder clip
- Condenser: Sub stage Abbe condenser NA 1.25 with aspheric lens
- Iris diaphragm with blue daylight filter
- Rack and pinion movements on stainless steel guides
- Focusing Coaxial coarse and fine on ball drive system for smooth operation
- Illumination: Halogen 6V-20W or 3W LED with variable control
- Life: Up to 2,000 hours of Halogen (20W) lamp life and 100,000 hours of LED life
- Electronics Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer





**RYS Iconic 99BX**

**RYS Iconic 99TX**

## Bino/Trino Research Microscope **RYS Iconic 99**

- Optical System: Infinity color corrected
- Stand: Single mould Aluminium with hand rests
- Viewing Body: Siedentopf butterfly type Bino/Trino head, 30° inclined, 360° rotatable, IPD 50 - 75mm
- Eyepieces: Wide field 10x/20mm with anti-reflection & anti-fungal coatings optional 10x/22mm
- Nosepiece: Reverse angle quadruple (Ball bearing type) with click stops & rubber grip optional quadruple
- Objectives i series RYS DIN Plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), anti fungal
- Mechanical stage Rackless X axis, double plate Size 190 x 140mm
- XY travel range: 75mm x 50mm
- Low drive right hand movement controls and hard coated surface double specimen holder clip
- Condenser: Sub stage Abbe NA 1.25 with aspheric lens
- Iris diaphragm with blue daylight filter
- Rack and pinion movements on stainless steel guides
- Focusing: Coaxial coarse and fine on ball drive system
- Illumination: Halogen 6V-20W or 3W LED with variable control
- Life: Up to 2,000 hours of Halogen (20W) lamp life and 100,000 hours of LED life
- Electronics: Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer

## Trinocular Research Microscope **RYS 7 Delta**

- Viewing head: Compensation Free Trino Inclined at 30°
- IPD 48mm-75mm
- Eyepiece: WF10x/22mm with rubber eye-cup
- Objective: IOX series infinite Plan
- Objective: 4X, 10X, 40X (s), 100X ion(s) Oil
- Nose-piece: Inward, Quintuple revolving
- Stage: X axis rackless double layers mechanical stage
- Stage size: 190mm×160mm
- Moving Range: 75mm×50mm
- Double specimen holder clip
- Condenser: A.1.25Abbe condenser with iris diaphragm & filter holder
- Focusing: Coaxial coarse & fine focusing adjustment
- Light Source: Koehler Q-LED 3.5W 3V with variable control
- Optional Accessory:  
 Eyepiece : WF16X, WF20X, P16X, IOX series  
 DIN Infinity Plan objectives 20x, 60x SL, WF 15x, WF 20x  
 Pointers & Micrometer Reticules, Phase contrast, Polarizing, Fluorescence and Dark Field attachments  
 Digital USB Cameras (1.3MP, 3MP, 5MP, 14MP) with in-built adaptors  
 Digital Cameras, HDMI cameras and DSLR Cameras with adaptors  
 Illumination System Halogen 6V 20W  
 Electronics: Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer



**RYS 7 Delta T**

**Research Fluorescent Microscope RYS 102**

Two Filter

- Eyepiece: Wide field WF10X(Dia22mm)
- Objective: Universal RYS plan achromatic objectives PL 4X/0.10 (Work distance): 19.8 mm  
PL 10X/0.25 (Work distance): 5.0 mm, PLF L40X/0.85 $\epsilon$  (Work distance): 0.42 mm  
(No magnification spherochromatic aberration)  
PL 100X/1.25 (Spring, oil) (Work distance) : 0.36mm
- Eyepieces tube Trinocular, Inclination of 30°
- Epi-fluorescent illumination system 5W high brightness LED. Enable selecting monochromatic or bichromatic LED for light source, every monochromatic LED wave band:  
Green (475nm~550nm) Blue( 410nm~490nm) Fluorescence filters: B (Blue) and G (Green)
- Focus system: Coaxial coarse/fine with tension adjustable and limit stopper  
Minimum division of fine focusing: 2 $\mu$ m
- Nosepiece Quadruple: (Backward ball bearing inner locating)
- Stage Rack less double layer mechanical (210mmX140mm, Moving range:75mmX50mm)
- Transmitted illumination system
- Abbe condenser NA.1.25 Rack & pinion adjustable Blue filter and Ground glass Collector for LED illumination and integrated field diaphragm 3W high brightness white LED, brightness adjustable  
Professional software for fluorescence analysis. High precision micrometer, scale value 0.01mm

**Binocular Research Microscope RYS NE620T**

- Optical System: RYS colour corrected
- Eyepieces: 10x/22mm
- Viewing Head: 30° Inclined Seidentopf Binocular, Inter-pupillary 47-78mm.
- Standard Objectives NIS 60 rayscope Plan  
Achromatic Objectives 4X, 10X, 40X, 100X oil or 100X water
- Nosepiece: Coded backward quintuple
- Stage: Synchronous belt | size: 230 × 150mm
- Moving Range: 78 × 54mm
- Condensor: NA 1.25 Abbe Condenser (including empty Plate)
- Focus: Co-axial coarse and fine control
- Coarse range: 37.7mm | Fine range: 0.2mm
- Illumination: 3W LED with automatic switching and sleep timer
- Optional : Fluorescence, 3W LED two wave range | B, G, U, V filters  
C-mount adaptors 1.0X and 0.5X
- Accessories: Simple polarization kit (optional), green filter (standard)
- Electronics: Universal input 100V- 240V AC, 50/60Hz, built-in voltage stabilizer





## Multi Viewing Microscope **RYS Nexus 5**

- Application: Several people can observe one specimen together at the same time
- Features: Rayscope imaging system, high light intensity illumination system, sharp & clear image and consistent image in observation
- Usage: Discussion application in Clinic, Research and education
- Equipped with LED cursor to indicate image in the viewing field
- Cursor: Arrow type with light intensity adjustable button, moved freely and any position of the image can be indicated
- Optical system: Infinite
- Viewing Head: Compensation Free Trino head inclined at 30° (50mm-70mm) 4-Binocular head, IPD adjustable 50mm-75mm
- Eyepiece: Plan WF10X/22mm
- Objective: RYS series plan 4X0.10, 10X/0.25, 40X/0.65 100X/1.25 Oil
- Nosepiece: Quintuple Inward
- Stage: X axis Rack less double layers mechanical stage
- Stage size: 190mmx 160mm
- Moving range: 80mmx 50mm
- Focusing: Coaxial coarse & fine focusing
- Light Source: Halogen Bulb 12V/100W, brightness adjustable
- Indicator: LED cursor brightness adjustable

## Multi Viewing Microscope **RYS PH999**

- Optical System: Infinite optical system.
- Observation Head: One number Seidentopf Trinocular head 30° inclined Compensation free 360° rotatable | 4 no. compensations free Binocular Head inclined 30° for multi viewing antifungal coated
- Eyepieces: 5 pairs of WF eyepieces 10x F.O.V. 22 mm diopter adjustment
- Nosepiece: Quintuple nosepiece turret (Ball bearing type)
- Stage drive: Double plate stage size 185mmx142mm
- XY Travel range: 75mmx55mm
- Double specimen holder clip
- Objectives: RYS series DIN Infinite Plan Achromatic Objectives 4x, 10x, 40x and 100x
- Condenser: Abbe NA 1.25 Iris diaphragm blue day light filter
- Illumination: True Kohler halogen lamp 24V-100W/LED 3W with control
- Focusing: Coaxial coarse and fine with roller guide
- LED Pointer: Moveable built in green led pointer (brightness adjustable) as a standard accessory
- Dual Colour LED Pointer (Optional)
- Video Adapter: C Mount 1x & C Mount 0.5x (optional)
- Optional Accessories: Micrometer Reticules, Phase contrast, Polarizing, Fluorescence and Dark Field Kits, Cord Hanger Kit, Digital USB Cameras (1.3MP, 3MP, 5MP) and Digital cameras 14MP with Adapters. Digital SLR cameras with Adapters, WF eyepieces 15x and 20x.





**Multi Viewing Microscope RYS Nexus 10**

- Application: Several people can observe one specimen together at the same time
- Features: Rayscope imaging system, high light intensity illumination system, sharp & clear image and consistent image in observation
- Usage: Suitable for application in Clinic, Research and education
- Equipped with LED cursor to indicate image in the viewing field
- Cursor: Arrow type with light intensity adjustable button, moved freely and any position of the image can be indicated
- Optical system: Infinite
- Viewing Head: Compensation Free Trinocular Head Inclined at 30° (50mm-70mm) 9-Binocular head, IPD 50mm-75mm
- Eyepiece: Plan WF10X/22mm
- Objective: RYS series plan 4X0.10, 10X/0.25, 40X/0.65 100X/1.25 Oil
- Nosepiece: Quintuple, Inward
- Stage: X axis Rackless double layers mechanical stage
- Stage size: 190mmx 160mm
- Moving range 80mmx 50mm
- Focusing: Coaxial coarse & fine
- Light Source: Halogen Bulb 12V/100W, Brightness adjustable
- Indicator: LED cursor brightness adjustable

**Stereo Microscope RYS 44**

- Two magnification levels (10x/20x, 10x/30x, or 20x/40x)
- Application: Indoor and outdoor, powered by batteries or wall-power
- Usage: Ideal for student learning and classroom teaching  
For viewing jewel, PCB, insects and so on
- Eyepiece: WF10X/20mm; high-eyepoint; widefield; Convenient
- Optional Eyepiece: WF5X, WF10X, WF15X, WF20X
- Main Body: Binocular head, 45° inclined, 360° rotatable, can be locked in any position desired | IPD:55-75mm
- Diopter adjustment: ±5 diopters
- Illumination: 12v/10w incandescent lamp 12v/10w halogen lamp
- LED illumination (Rechargeable for option)



## Stereo Zoom Microscope **RYS 45e**

- Provides crystal clear sharp images with high resolution and good depth within a broad field of view
- Once brought in focus, images remains clear and sharp throughout the whole zoom range
- Application: Used in electronic industry, educational demonstration and agricultural research for micro-object observation, inspection and measurement.
- Magnification: 7X - 45X, 3.5X - 270X
- Eyepiece: WF 10X/20 mm h
- Objective: 0.7X - 4.5X stereo zoom
- Working Distance: 78 mm
- Binocular Head: 45 Degree Inclined, 360 degree rotatable.
- Indicator: LED cursor brightness adjustable

## Stereo Zoom Microscope **RYS 6745**

- Optical System: Fully coated with super high resolution
- Features: Brand-new optical design, the best reproduction and true color image
- Usage: Industrial and biological research where high precision, maximum working distance and large field coverage is required.
- Eyepiece: WF15X/F.N.15, WF20X/F.N.10
- Main Body: Binocular head, 45° inclined, 360° rotatable, can be locked in any position desired. IPD:54-75mm
- Working Distance: 30 -165 mm
- Field Of View: 1.1- 57.1 mm
- Illumination: Transmitted and reflected 5v/3w LED illumination with independent switches and adjustable intensity.



**Stereo Zoom Microscope RYS 45s**

- Optical System: Fully coated with super high resolution
- Features: Offers sharp clear images with great flatness and contrast  
Once brought in focus, image remains clear and sharp throughout the zoom range
- Eyepieces: Super wide-field high-eyepoint
- Magnification: Provides continuous variable magnification from 4X to 300X with optional eyepieces and auxiliary lenses
- Usage: For those who require precision-oriented observation
- Magnification: 8X-50X, 4X-300X with optional eyepieces and objectives
- Eyepiece: WF/22mm high-eyepoint, wide-field; Convenient for observers wearing glasses.  
Optional WF/22mm, WF15X/16mm, WF20X/12mm, WF25X/9mm, WF30X/8mm
- Main Body Binocular head, 45° inclined, 360° rotatable, can be locked in any position
- IPD :52-75mm
- Diopter:  $\pm 5$  diopters
- Objective 0.8X-5.0X stereo zoom; Zoom Ratio:6.3:1
- Aux Lens 0.5X, 2.0X
- Focusing: Mount with vertical working distance 106mm
- Stand S7 track stand for more options
- Illumination transmitted and reflected LED with independent switches and adjustable intensity

**RYS 45s Binocular****RYS 45s Trinocular****Zoom Microscope RYS DMS Z20**

Digital Stereo

- Integrated zoom optical module with high definition camera
- Can be used in narrow and small space
- Ergonomic principles with its internal optical corner design & angle adjustment of the display screen allows the operator to look at the display in a flat view
- Through the HDMI HD interface it can connect to another display simultaneously
- Magnification: 17x-110x
- Objective: 0.7x-4.5x
- Sensor: 1/3" COMS
- Resolution: 1920\*1080P@60FS(2.0Mp)
- Output: HDMI, USB, SD Card
- Display: 11.6" / 21.5" optional
- Illumination: Comes with 56-LED ring light





**RYS 48A Binocular**

**RYS 48A Trinocular**

## Optical Stereo Zoom Microscope **RYS 48A**

Parallel

- Optical System: High Performance Parallel optical zoom system
- Viewing Head: Binocular head, 20°inclined, IPD 55-75mm (Standard) Tilting binocular eyepiece tube, 0-35°inclined, Interpupillary distance 55-75mm (optional)
- Eyepiece: WF10X/ dia 22 (Standard), WF10X/Dia24 (Opt.) WF15X/Dia16 (Opt.) WF20X/Dia12 (Opt.) WF30X/Dia 8(Opt.)
- Objective: Zoom Objective 0.8X-5X (Opt.) 0.8X-6.4X(Opt.) 0.8X-8X (Standard)
- Objective 1X Plan Achromatic objective Wd: 78mm, 0.5X Achromatic objective WD: 186mm (Opt.)2X Plan Achromatic objective WD : 32.5mm (Opt.)0.5X Plan Apochromatic objective (Opt.) - Zoom Ratio 1: 6 (Opt.)1: 8 (Opt.) 1:10 (Opt.)
- Working Distance: 78mm
- Focusing Range: 105mm
- Illumination 3W Transmission & 3Wreflection LED illumination, brightness adjustable.

## Zoom Microscope

## **RYS SZX12**

Research Stereo

- Optical system: Research level zoom stereomicroscope | Infinite Parallel Galileo Optical system
- Apochromatic objective: Provides real and perfect microscopic images on details
- Excellent ergonomics and user-friendly operating system allows users to experience a simple and comfortable work
- The Mirror in the base can be 360 ° rotatable to achieve the best observation results.
- Meets the research demands of life sciences, biomedicine, microelectronics, semiconductors, materials science and other fields of research needs.

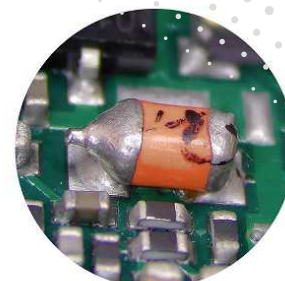
Feature:

- Tilting viewing head for comfortable operation
- Tilting viewing head from 5 to 45 degrees, can be flexibly adjusted for different operators with different posture
- Large zoom ratio: 12.5:1
- Eyepiece: High eye-point wide field plan PL10×/23mm
- Objective: Apochromatic
- Base: Plan base with transmitted illumination, built-in 360 degree rotatable mirror, location and angle adjustable
- Illumination: 5W LED light box



## 2D/3D Inspection Microscope **RYS 2D/3D**

- Parallel Optical System whole focus, uniform illumination
- Observe different objects by LED (or) fiber optic illumination
- 39.6mm Dia for focusing mount holder.  
Suitable with 45mm, 50mm and 76mm stand, via ring adapter.
- Max compatible camera 2/3" Nikon, Olympus, Mitsutoyo  
Standard screw thread endless far metallographical lens.
- Optional CCD Adapter Magnification 0.4X, 0.5X, 0.75X, 1X (Standard), 1.5X, 2X, 3X.
- Auxiliary Objective Magnification optional 0.3X, 0.5X, 0.6X, 1.5X, 2X.
- High Magnification infinity Plan Achromatic Objective Mag.  
5X, 10X, 20X, 40X, 60X, 80X, 100X.
- High Magnification infinity Long working distance Plan Apochromatic Objective Mag.: 5X, 10X, 20X, 50X
- Widely used in electric equipments, semi-conductor, LCD, LED etc.  
for digital image observation, inspection and measurement.
- 0.6-5.0X zoom, 1X CCD adapter and 1X objective,  
1:8.3 big ratio standard working distance is 86mm
- Can choose Auxiliary Objective 0.3X, 0.5X, 0.6X, 1.5X, 2X.  
Standard C mount. CS mount optional
- Equipped with fine-tuning hand wheel, which can be adjusted to focus. No need adjust working distance again after focus well again.
- Can choose 0.3X, 0.5X, 1.5X, 2.0X, 3.0 X CCD adapters optional.



## Biological Research Microscope **RYS 40**

- Optical System Rayscope Corrected System
- Viewing Head Inclined 30 degree Trinocular head with  
IPD 47-76 mm with Splitting ratio 0:100, 80:20 and 100 :0
- Eyepiece PL paired 10x with FOV 22mm diopter adj. both sides
- Nosepiece Reverse angle revolving sextuple nosepiece  
(Ball bearing type) with precise click stops and rubber grip.
- Objectives plan semi apochromatic fluorescence objectives with  
anti-fungal and anti-reflection properties
- 4XN.A 0.10, WD18mm, 10XN.A 0.25, WD7mm, 20XN.A 0.40,  
WD1.2mm, 40XN.A 0.65, WD0.50 mm, 100XNA 1.25, WD0.2 mm
- 187x166mm double layer mechanical stage moving range  
88x55mm precision 0.1mm.
- Ceramic coated coaxial stage with right hand low drive control  
and double slide holder. Focusing System Coaxial Focus system  
with upper limit stopper and tension Adjustment.
- Coarse range : 30mm Fine Precision 0.002 mm
- 5W LED illumination, life approx. 50,000 hours, Variable intensity  
control. Transmitted Illumination wide Voltage 100-240 v in  
transmitted Kohler Illumination with intensity adjustable.
- Condenser N.A 1.25 Turret phase contrast condenser
- LED Pointer Tension adjustable Middle Module with LED cursor  
that can be switched with Red/Green/ Blue colors.
- Product can be upgraded to DIC and polarizing microscopy by  
attaching polarizing attachment.
- Standard Accessories Power Cable(5ft), Immersion Oil,  
Dust cover, Cleaning Cloth, Styroform case, Spanner M4

## Multi-Viewing Microscope **RYS Nexus 3**



- Designed for several people to observe one specimen together at the same time
- Features: RYS imaging system, high light intensity illumination system, sharp & clear image and consistent image in observation
- Usage: Suitable for discussion application in Clinic, Research and education  
Supplies bigger space for an observer bringing more comfort in working
- Cursor: Equipped with LED cursor which is arrow type with light Intensity adjustable button, Can be moved freely to indicate any position in image
- Optical system: Infinite
- Viewing Head: Compensation Free Trinocular Head  
Inclined at 30°(50mm-70mm) 2-Binocular head, IPD 50mm-75mm adjustable
- Eyepiece Plan: WF10X/22mm
- Objective: RYS series plan objective 4X0.10,10X/0.25,40X/0.65, 100X/1.25 Oil
- Nosepiece: Quintuple Nosepiece, Inward
- Stage: X axis Rackless double layers mechanical stage  
Stage size : 190mmx 160mm, Moving range: 80mmx 50mm
- Focusing: Coaxial coarse & fine
- Light Source: Halogen Bulb 12V/100W, Brightness adjustable
- Indicator: LED cursor brightness adjustable

## Multi-Viewing Microscope **RYS PH 777**

- Optical System: Finite
- Observation Head: One number high transmission Trinocular head  
45 inclined main head Compensation free 360 degree rotatable  
Four number compensations free Binocular Head  
inclined 45 for multi viewing. Antifungal coated
- 5 pairs of WF eyepieces 10x F.O.V.18mm with diopter adjustment.
- Nosepiece: Quadruple nosepiece turret(Ball bearing type)
- Stage drive: Double plate | Size140x120 | XY travel range 100mmx60mm  
Double specimen holder clip
- Objectives: RYS series DIN Plan Achromatic objectives  
4x, 10x, 40x and 100x antifungal coated
- Condenser: Abbe condenser NA 1.25, Iris diaphragm with blue day light filter
- Illumination: True Kohler illumination, Halogen Lamp 24V-100W /  
LED 3W with brightness controller.
- Focusing: Coaxial coarse and fine with roller guide for smooth operation
- LED Pointer: A moveable built in green led pointer(brightness adjustable)  
is supplied as a standard accessory.





**Biological Research Microscope RYS 50**

- Optical System: RYS color corrected
- Viewing Head: Inverted image, 30° inclined gemel trinocular head, IPD: 50mm~76mm; splitting ratio R:T=100:0 or 20:80 or 0:100  
Erect image, 30 inclined gemel trinocular head, IPD : 50mm~76mm; splitting ratio R: T=100:0 or 0:100
- Eyepiece: High eye point wide field plan PL10X25mm diopter adjustable | PL10X25mm with reticle, diopter adjustable
- Objective: Plan semi-apochromatic fluorescence (4X/10X/20X/40X/100X)
- Nosepiece: (with DIC slot) Quintuple, Sextuple and septuple
- Frame: Biological (transmitted), low-position coaxial coarse and fine adjustment  
coarse adjustment distance: 25mm; fine precision: 0.001mm
- With coarse adjustment stop and tightness adjustment
- Built-in 100-240V\_AC50/60Hz wide voltage transformer, intensity adjustable by digital set and reset; built-in transmitted filters LBD/ND6/ND25).
- Stage: Double layer | Size: 187mm X168mm Moving range: 80mmX55mm  
Precision: 0.1mm; two-way linear drive tension adjustable
- Condenser: Swing-out type achromatic condenser (N.A.0.9)
- Other Accessories: Camera adapter: 0.5X/0.65X/1X focusing C-mount  
Cooled CCD camera, SONY2/31.4M ICX285AQ COLOR CCD  
Centering objective for fluorescence observation  
Professional software for fluorescence analysis  
High precision micrometer, scale value 0.01mm

**RYS Delta 7 FLB LED****RYS Delta 7 FLB & G LED****Fluorescent Research Microscope RYS 7FL B LED**

Optical system infinite optical system.  
Viewing Head Compensation Free trinocular Head inclined at 30° interpupillary distance adjustable 48mm-75mm.  
Eyepiece Wide field Plan WF10X/22mm  
Objective RYS series infinite Plan objective 4X0.10, 10X/0.25, 40X/0.65, 100X/1.25 Oil.  
Nosepiece Quadruple nosepiece  
Stage X-axis rackless double layer mechanical stage. Stage Size : 190mmx 160mm.  
Moving Range : 80mmx 50mm  
Focusing Coaxial coarse & fine focusing adjustment, fine focusing scale value 0.002mm  
Light Source Epi-fluorescent illumination LED 3V/5W, AC85V-230V,brightness adjustment .  
Transmission illumination Kohler illumination with aperture iris diaphragm and field iris diaphragm Halogen Bulb 12V/100W, AC85V-230V Brightness adjustable.  
Fluorescent attachment B Wave band  
G Wave band (Optional)  
Certifications European CE, ISO:9001 & ISO:13485  
Optional Accessory  
Eyepiece: WF15X/17mm,WF20X/12.5mm  
objective: infinite Plan large N.A fluorescent objectives 4X/0.15, 10X/0.35, 20X/0.60, 40X/0.75, 100X/0.90 (D)  
Photography attachment and CCD C mount : 0.5X, 0.57X, 0.75X  
1.3Mega, 2.0Mega, 3.0Mega, 5.0Mega, 10.0Mega pixels  
CMOS Digital camera eyepiece CCD Camera, colour 1/3 High resolution 700 TV lines  
Image analysis software Fluorescent digital CCD G, V, UV, Red, Aqua Gold Wave band



## Rotary Microtome **RYS ARM 10A**

Spencer Type

- Feed Adjustments: 1-50  $\mu$ m
- Minimum Thickness: 1  $\mu$ m
- Net Weight: 30 kgs approx.
- Gross Weight: 42 kgs approx.
- Standard Accessories:
  - Knife 120mm, with back & handle in Box One
  - Universal Vise-One
  - Honing Stone in Box-One
  - Dust Cover-One
  - Oil Can-One
  - Tissue Embedding cassette | Packet of 50 Pcs
  - Object Holder (Set of 3) - One Set
  - Illustrated operating manual - one
- Optional Accessories: Disposing Blade Attachment
- Warranty 2 Years against manufacturing defects
- Certifications ISO 9001, 13485, US FDS and CE CERTIFIED

## Rotary Microtome **RYS ARM 10B**

Erma Japan Type

- Feed Adjustments: 1-25  $\mu$ m
- Minimum Thickness: 1  $\mu$ m
- Total feed excursions: 28mm
- Overall Dimensions: 30 x 33 x 28 cms
- Net Weight: 25 kgs approx.
- Gross Weight: 35 kgs approx.
- Object Holders: 3 Nos.
- Knife: 120mm, in a box honing stone
- Lubricating Oil bottle - Set
- Dust Cover: 1 Pc.
- Operating Manual: 1 No.
- Optional Accessories: Razor attachments, microtome razor/knives, L-moulds, Object holders, honing stone leather straps, micro abrasives, razor/knife sharpener and ribbon conveyer etc
- Warranty: 2 years against manufacturing defects
- Certifications: ISO 9001, 13485, US FDA and CE Certified



**Research Biological Microscope RYS Star 9FL**

Fluorescent

- Features: Made with biological microscope and Epi-fluorescence device
- Epi-fluorescence is widely used in biology, medicine, immunology, oncology, genetics, materials science and other fields
- Conventional configuration: 5 wave bands Blue, Green, Blue-Violet, Violet and Ultra violet can be switched and the conventional transmission observation can be used for general biological applications
- Viewing Head: Compensation Free Siedentopf Trinocular Head Inclined at 30° (48mm-75mm)
- Eyepiece: WF10X/22mm, anti-fungal and anti-reflection
- Infinite Apochromatic Fluorescent Objectives: 4x, 10x, 40x and 100x, anti-fungal and anti-reflection treated
- Nosepiece: Sextuple Nosepiece with precise click stops
- Stage: Double layer mechanical | Size: 190mm×160mm
- Moving Range: 80mm×50mm
- Condenser: N.A.1.25 Abbe condenser | Iris diaphragm and filters
- Focusing: Coaxial coarse & fine adjustment with rack and pinion mechanism
- Fine focusing scale value: 0.002mm
- Light Source transmission: Halogen Bulb 12V/30W | Brightness adjustable
- Epi-Fluorescent Illumination: 220V (110V)
- Ultra-high pressure Mercury Lamp 100W/DC
- Digital display mercury lamp constant power fluorescent Box Blue, Green, Blue-Violet, Violet and Ultra violet Wave Band

**Fluorescent Research Microscope RYS 106 FL**

Inverted

- Viewing Head: Compensation free trino head, Inclined 45° (50mm-75mm)
- Eyepiece: WF10x/22mm, anti-fungal and anti-reflection treated
- Objective: Long working distance plan Achromatic objectives: 4x, 10x (phase contrast), 20x (phase contrast), 40x (s)
- Stage: Double layer mechanical | Size: 242mm×172mm  
Central stage:  $\Phi$ 110mm | Moving Range: 75mm×40mm
- Filter: N.A.0.3 Abbe Condenser with iris diaphragm
- Working Distance: 75mm
- Focusing: Coaxial coarse and fine with tension adjustment
- Fine focusing scale value: 0.002mm
- Transmission Illumination: Halogen Bulb 12V/30W adjustable brightness
- Light Source: Epi-Fluorescent Illumination 220V (110V)  
Ultra-high pressure Mercury Lamp 100W/DC  
Digital display mercury lamp constant power  
Fluorescence attachment Blue and Green Wave band
- Optional Accessory:  
1.3Mega, 2.0 Mega, 3.0 Mega, 5.0 Mega, pixels  
CMOS Digital camera eyepiece, HDMI 1080, HDMI 720p cameras
- Objective: 40x phase contrast U, V Wave band  
Photography attachment and CCD Adapter 0.5x, 0.57x, 0.75x







## Research Biological Microscope **RYS 600 FL**

Fluorescent

- Optical System: NIS Infinite (F200)
- Observation Method: Bright field phase/ Hoffman/ Emboss phase contrast
- Illumination Transmitted
- Viewing Head: Seidentopf Inclined at 45° , IPD 48-75mm
- Additional Camera Port, Eyepiece/Port 100/0:0/100 Eyepiece (F.O.V) SW10x(22), WF15x(16), WF20x(12)
- Focusing: Coaxial Coarse and Fine
- Coarse tightness adjustment, Fine Division 1um, Fine Stroke 0.2mm per Rotation, Coarse Stroke 37.5mm per Rotation, Up 7mm, down 1.5mm
- Nosepiece: Quintuple
- Condenser: NA 0.3, WD 75mm, without Condenser WD 187mm
- Stage: 170(X) × 250(Y) mm attachable Mechanical Stage: 128(X) × 80(Y), accepts 5 Types of Micro-test plate, well Clamper and Stage Clip
- Holder: Petri Dish 35mm, Petri Dish 90mm, Terasaki holder for Terasaki Plate and ø65 dish, Slide Glass holder for Glass Slides and ø54 Dish, Universal Holder for Terasaki Plate Holder, Glass Slides and ø35-65 Dish
- Phase System: Condenser with 4x Phase Annulus Plate 10x,20x,40x Universal Phase Annulus Plate, Hoffman Phase 10x, 20x, 40x Hoffman Condenser
- Special Objective Relief 3D contrast condenser and eyepiece with Emboss Contrast 10x, 20x, 40x | Universal emboss contrast slide
- Epi-Fluorescence Attachment and Filter Turret, configure with up to 3 Filter Cubes
- Attachable Contrast Shield (Opt.) Dimensions 244(W)×543(D)×526(H)mm
- Video Adapter 1x, 0.5x CMount

## Fluorescent Research Microscope **RYS 60 FL**

Inverted

- Optical System: RYS color correction system
- Viewing Head: 20~45 degree tilting binocular head, inverted image, IPD 50~76mm
- Eyepiece: High eye-point plan PL10X/22mm, diopter adjustable, reticle attachable
- Objective: LWD plan semi-APO objectives (2X/4X/10X/20X/40X/60X)
- LWD plan semi-APO phase contrast objectives: (4X/10X/20X/40X/60X)(Opt.) (10X/20X/40X)(Opt.)
- Nosepiece: Electric bright field sextuple with DIC slot
- Frame: Low position coarse and fine coaxial electric focusing mechanism, range: 10.5mm, precision: 1um | Built-in electric upper camera port, splitting ratio: 100:0/0:100; built in electric Nosepiece: left camera port, splitting ratio: 0:100/50:50/100:0; dual optical path fluorescent light barrier
- Condenser lifting adjustable range: 65mm, set 4 filters (LED/green/ground glass)
- Stage: Manual mechanical, Size: 300mm(X) x 240mm(Y)
- Moving range: 135mm(X) x 85mm(Y), Stage thickness: 30mm
- Right universal handle, X/Y axis limitable and lockable, moving range 50mmx50mm; with Dia110 mm replaceable disc
- Condenser: Electric septuple condenser, NA ≥ 0.55, WD ≥ 27mm; 3 holds for Dia 30mm(phase contrast), 4 holds for Dia 38mm(DIC); support for bright field/phase contrast/DIC (with polarizing kit) Condenser
- Fluorescence Attachment: Octuple disc fluorescent attachment, disc position is automatically identifiable; with electric shutter to block the fluorescent light; B1/G1/UV1 fluorescent filters for option
- Lamp House: 12V100W halogen illumination, filament center preset 100W mercury lamp (OSRAM), with power box



## Research Microscope **RYS 105s**

Tissue Culture

- Stand: Universal single cast stand with Anti mold paint
- Optical System: iOX Universal Infinite
- Viewing head: Compensation free trinocular head Inclined at 45°(50mm -75mm)
- Eyepiece: WF10X/ 22mm anti-fungal and anti reflection treated
- Nose-piece: revolving nose-piece with precise click stops
- Optional quintuple nose-piece
- Objective Long working distance Infinite plan- objective  
LWDPL4X/0.1W.D .25mm, LWDPL10X/0.25 phase contrast W.D .12mm  
LWDPL20X/0.4 phase contrast W.D .10mm, LWDPL40X/0.6W.D .7mm
- Mechanical Stage: Double layer | Size: 242mmx 172mm,  
Central stage: Φ110mm, Moving range: 75mm × 50mm
- Condenser: N.A0.3Abbe condenser W.D 0.75mm &  
Center of phase contrast ring plate adjustable with centering telescopic eye-piece
- Focusing System : Coaxial coarse & fine with rack and pinion mechanism
- Fine focusing scale Value: 0.002mm
- Filter: Blue, green, yellow and frosted glass
- Light source: Halogen bulb12V/30W, Adjustable brightness,  
Optional LED 5W light source.



## Research Microscope **RYS 41**

Cell Culture

- Optical System: RYS color corrected
- Viewing Head: 45° inclined trino head, 360° rotatable, IP range: 50-75mm  
fixed splitting ratio=5:5
- Eyepiece: High eye-point wide field plan PL10X/22mm, adjustable diopter,  
micrometer can be attachable
- Nosepiece: Quintuple
- Infinity Plan LWD Objective | LWDPL 4X /0.13 WD10.4mm  
LWDPL10X/0.25 WD7.3mm | LWDPL .40X/0.60 WD3.1mm  
PH20X/0.40, WD=6.8mm
- Frame: Biological frame with coaxial focus system  
coarse range: 9mm(6.5mm up and 2.5 down), fine precision: 0.002mm  
with upper limit and tension adjustment with eco system
- Illumination power can be automatically on/off through infrared induction
- Stage and Accessories 215mm X 250mm fixed stage;  
Petri Dish holder: Dia: 35mm | Glass stage Metal Insert Dia:25mm  
Phase pre-centered slider
- Telescope Eyepiece Telescope Eyepiece, Dia:30mm
- Condenser NA0.3 long working distance condenser  
WD=72mm, demountable Power External wide voltage transformer  
100V-240V input, 12V5A output; 5W LED with Brightness indicator  
intensity adjustable





## Polarizing Microscope **RYS PR 1**

Monocular

- Features: Equipped with a Bertrand lens that can be swung in and out, with a slot size 12mmx4mm provided in the tube at 45 degree to the polarizer axis for compensators
- Compensators: Full wave  $1\lambda$ , Quarter wave  $\frac{1}{4}\lambda$  available for quantitative retardation measurement
- Magnification: 40-600X for observation
- Eyepiece: WF 10x & H 15x
- Nosepiece: Center able Quadruple
- Objective: Strain free Achromatic 4X/0.1, 10X/0.25, 40X/0.65 Spring
- Illumination: Day Light Plano Concave Reflection Mirror.
- Intermediate Tube Built in removable Bertrand lens built in removable analyzer
- Analyzer 90° rotary dial; Minimum reading angle 0.1°
- Stage Circular Graduated stage; 1° increments and vernier reading 0.1°
- Condenser Strain free NA 0.90 with iris diaphragm
- Polarizer Attachable to bottom of condenser.

## Polarizing Microscope **RYS PR 2**

Binocular

- With triple revolving nose piece, co-axial coarse and fine motion, circular stage, rotatable in 360 degree, graduated with vernier reading up to 0.1 degree with provision for centering by two knobs located just below the circular stage, polarizer with swing out system
- Compact analyzer head having iris diaphragm, Bertrand lens,
- Analyzer rotating ring and half/full wave compensator with following optical combination.
- Objectives: 5x, 10x and 45x (SL)
- Eye pieces: WF10 x (Pair)



## Bino/Trino Microscope

### RYS PR 3 B/T

Polarizing

- Viewing Head: Bino/Trino observation Head
- Stage: Center able compact ball bearing 360 Degree Rotating 10 increment, 140mm dia., graduation with vernier, lock & stage specimen clips
- Nosepiece: Ball Bearing Quadruple with positive click stops
- Focusing: Co-axial coarse and fine, based on 4 stage gear reduction system
- Illuminator - Built in base with pre-centered LED Lamp & integral electric system with intensity control Input Voltage 220 or 110V
- Intermediate Tube Built-in focus able pre-centered Bertrand Lens with aperture diaphragm
- Built-in Analyzer removable from optical part
- Analyzer can be rotated 90 Degree with vernier reading to 6'
- Compensator: 1 Gypsum full wave & 1/4 wave Mica plates, insert in tube as required
- Objectives: Stress less flat field achromatic Objectives 4x, 10x & 40x (SL)
- Eyepieces: WF10x (Paired)
- Polarizer: 360 rotatable Polarizer strain free N.A 1.25 abbe condenser with iris diaphragm
- Optional: Objectives 20x & 60X, USB camera, Image Analysis software, wooden storing cabinet etc.



## Research Microscope

### RYS PR 5

Polarizing



- Usage: Used by geologists to observe optical properties of minerals
- Features: has indispensable applications for petrography, crystallography, geology, mineralogy, ceramics, toxicology, chemical microscopy or detecting defects in semi-conductors, finding stress points in metals, Glass & textiles etc.
- Viewing Head: Monocular or Binocular or Trinocular
- Stage: Centrable compact ball bearing 360 degree Rotating, 10 increment, 140mm dia., graduation with vernier, lock & stage specimen clips
- Nosepiece: Ball Bearing Quadruple with positive click stops
- Focusing: By vertical movement of stage, coarse adjustment by rack- pinion knobs and fine movement by Screw-lever mechanism driven by graduated knobs
- Intermediate Tube: Built-in focusable pre-centered Bertrand Lens with aperture diaphragm Built-in analyzer removable from optical part
- Analyzer can be rotated 90 degree with vernier reading to 6'
- Compensator: 1 Gypsum Full wave & 1/4 Wave Mica plates to be inserted as req.
- Objectives: Stress less flat field achromatic Objectives 4x, 10x & 40x (SL)
- Eyepieces: WF10x (Paired)
- Polarizer: 360 deg. rotatable on a strain free N.A 1.25 abbe condenser with iris diaphragm
- Optional Accessories: Objectives 20x & 60X, USB camera, Image Analysis software, Wooden storing cabinet etc





## Research Microscope **RYS Smart POL**

Polarizing

- Eyepiece: WF 10×-18mm
- Objectives: Non-stress Infinity Plan Objective 4x,10x,20x(S),40x(S) 60X(S) and 100x(S,Oil)(Optional)
- Viewing Head: Seidentopf Binocular- 360 deg. rotatable, 30 deg. inclined  
Seidentopf Trinocular- 360 deg. rotatable, 30 deg. inclined
- Nosepiece: Quadplex, Center adjustable Quintuple(Optional)
- Analyzer Unit: 0-90°
- Bertrand Lens: It can be moved out of the optical path λ Slip: First Class Red
- Revolving Stage: Rotatable 360°, Division 1°, Vernier division 6', can be locked
- Condenser: Abbe N.A. 1.25 Non-stress
- Illumination: 12V/20W Halogen Lamp  
6V/30W Halogen Lamp (optional)  
3W-LED Lamp (optional)
- Filter: Blue (Built in)
- C Mount: 1×/0.75×/0.5× (Focus adjustable) (optional)

## Metal Analysis Microscope **RYS M40**

Inverted

- Viewing Head: Compensation Free Trinocular Head, Inclined at 45°
- Eyepiece: WF10×/18mm WF10×/18mm, crosshair with reticule 0.1mm
- Objective DIN Plan Metallurgical objectives: 4×/0.1W.D.25mm, 10×/0.25W.D.11mm, 20×/0.4W.D.9mm, 40×/0.6W.D.3.8mm,
- Stage: Double layer mechanical | Size: 172mm×142mm
- Moving Range: 30mm×30mm
- Filter Inserting type filter(green, blue, Yellow)
- Focusing: Coaxial coarse & fine adjustment with rack and pinion mechanism
- Fine focusing scale value 0.002mm
- Light Source With aperture iris diaphragm and field diaphragm, Halogen lamp 12V/20W, AC85V-230V, Adjustable Brightness
- Polarizing Device Analyzer: Rotatable 360°  
Polarizer & Analyzer can be moved out of the light path
- Checking Tool 0.01mm
- Certification: ISO 9001, ISO 13485, European CE., US FDA, GEM
- Warranty: 2 years against any manufacturing defect
- Optional Accessory:  
Professional metallurgical image analysis software  
1.3Mega, 2.0Mega, 3.0Mega, 5.0Mega Pixels CMOS Digital camera eyepiece  
DIN Plan Metallurgical objectives:50×80×100×  
Photography attachment and CCD Adapter0.5×, ×0.57×0.75×  
Simple Dark field kit CCD Camera, color 1/3"High resolution 520 TV lines



## Metallurgical Microscope **RYS M50**

Inverted

- Eyepiece: Wide field WF10X (field number: Dia 22mm)
- Objective: Equipped with bright field objectives  
PL L10X/0.25 (Work distance): 5 mm  
PL L20X/0.40 (Work distance): 8.80 mm  
PL L50X/0.70 (Work distance): 3.68 mm  
PL L100X/0.85 (Dry)(Work distance): 0.40 mm
- RYS-50M-BD: Equipped with bright & dark field objectives  
PL L5X/0.12 BD (Work distance): 8.05mm  
PL L10X/0.25 BD (Work distance): 7.86 mm  
PL L20X/0.40 BD (Work distance): 7.23mm  
PL L50X/0.70 BD (Work distance): 2.50mm
- Eyepiece tube: Inclination angle is 45° | IPD: 53~75mm
- Focusing: coaxial coarse/fine with tension adjustable  
Minimum division of fine focusing is 2um
- Nosepiece Quintuple (Backward ball bearing inner locating)
- Stage: Mechanical stage | Size: 242mmX200mm Moving range: 30mmX30mm  
Rotundity and rotatable stage size: Maximal measurement is Dia130mm  
Minimal Clear aperture: Dia 20mm
- Illumination system: 6V30W halogen and brightness enable control use in IOX-50M  
12V50W halogen and brightness enable control., use in IOX-50M-BD  
Integrated field diaphragm, aperture diaphragm and puller type polarizer
- Equipped with frosted glass and yellow, green and blue filters



## Metallurgical Microscope **RYS M200**

Inverted

- Features: Professional metallurgical objective & PLAN eyepiece provide clear image, high resolution, comfortable observation
- The corresponding photo or video accessories can collect and preserve the image, with computers and specialized metallographic analysis software can analyse the metallographic image
- Optical system: Finitiy color corrected
- Viewing head: Gemel trinocular 45°inclined
- Eyepiece: High eyepoint wide field plan eyepiece PL10X/18mm  
High eyepoint wide field eyepiece WF15X/13 (Optional)  
High eyepoint wide field eyepiece WF20X/10mm (Optional)
- Nosepiece: Reversed quadruple and Reversed quintuple (Optional)
- Stage: Three-ply mechanical | Stage area: 180mmX155mm
- Moving range:75mm×40mm | Illumination system: Reflection Koehler with iris diaphragm and centerable field diaphragm
- Polarizing kit: Polarizer and the analyzer can be removed from the optical path the analyzer can be rotated 360 °
- Photo accessories: Photo tube with PK mount, photo eyepiece 3.2X
- Video accessories: CTV0.5X/1.0X
- Software: specialized metallographic analysis software





## Metallurgical Microscope RYS M500

Upright

- Eyepiece: 10X wide field plan eyepiece and field of view number is  $\Phi 22\text{mm}$ , the eyepiece interface is  $\Phi 30\text{mm}$
- Achromatic Objectives: RYS-500M Upright series
  - PL L5X/0.12 working distance : 26.1 mm
  - PL L10X/0.25 working distance : 20.2 mm
  - PL L20X/0.40 working distance : 7.2mm
  - PL L40X/0.60 working distance : 3.98 mm
- RYS-500M-BD Upright series (Equipped with dark / bright field objective)
  - PL L5X/0.12 BD working distance : 8.05 mm
  - PL L10X/0.25BD working distance : 7.86mm
  - PL L20X/0.40 BD working distance : 7.2mm
  - PL L40X/0.60BD working distance : 3.0 mm
- Eyepiece tube: Trinocular inclined  $30^\circ$ , pupil separation 53~75 mm
- Focusing: Coaxial coarse/fine with tension adjustable device  
Minimum division of fine focusing:  $2.0\mu\text{m}$
- Nosepiece Quintuple: (Backward ball bearing inner locating)
- Stage: Mechanical stage | Size: 210mmX140mm | Moving range: 63mmX50mm
- Illumination: IOX-500 Upright series 6V30W halogen and brightness enable control
- Transmission illumination: RYS-500BD Upright series 12V30W halogen & brightness control 12V50W halogen & brightness control for reflecting illumination
- Integrated field diaphragm, aperture diaphragm and puller type polarizer
- Equipped with ground glass and yellow, green and blue filters
- Eyepiece Dividing eyepiece( $\Phi 22\text{mm}$ )
- Objective RYS-500 Upright series | Bright field objective 60X、50X、80X、100X(Dry)  
RYS-500BD Upright series Bright & dark field objective 50X、60X、80X、100X

## Dark & Bright Field Microscope RYS 20/20BD

Inverted

- Eyepiece: Wide field WF10X(field number: $\Phi 22\text{mm}$ )
- Objective: RYS-20 Equipped with bright field
  - PL L10X/0.25 (Work distance) : 5 mm
  - PL L20X/0.40 (Work distance) : 8.80 mm
  - PL L50X/0.70 (Work distance) : 3.68 mm
  - PL L100X/0.85 (Dry) (Work distance) : 0.40 mm
- Objective: RYS-20BD Equipped with bright field objectives
  - PL L5X/0.12 BD (Work distance) : 8.05mm
  - PL L10X/0.25 BD (Work distance) : 7.86 mm
  - PL L20X/0.40 BD (Work distance) : 7.23mm
  - PL L50X/0.70 BD (Work distance) : 2.50mm
- Eyepiece Tube: Inclination angle is  $45^\circ$  and IPD: 53~75mm
- Focus system: Coaxial coarse/fine with tension adjustable  
Minimum division:  $2\mu\text{m}$
- Nosepiece: Quintuple (Backward ball bearing inner locating)
- Stage: Mechanical | Size: 242mmX200mm | Moving range : 30mmX30mm
- Rotundity and rotatable stage size: maximal measurement  $\Phi 130\text{mm}$  and Minimal clear aperture is less than  $\Phi 20\text{mm}$ .
- Illumination system: 6V30W halogen and brightness control ,use in RYS-20  
12V50W halogen and brightness control, use in RYS-20BD
- Integrated field diaphragm, aperture diaphragm and puller type polarizer
- Equipped with frosted glass and yellow ,green and blue filters



**Dark & Bright Field Microscope RYS 20 DIC**

Inverted

- Application: Suitable for differential interference contrast observation in the surface of un-transparent object
- Equipped with excellent UIS optical system and the modularization function design, provide excellent optical performance and the update of the system
- Usage: The beautiful configuration, easy operation and clear image makes it perfect for research instrument for detection and analytic of the precision engineering, etc
- Eyepiece: Achromatic wide field SWF10X(Dia 22mm)
- Objective: RYS plan Achromatic objectives with long working distance (no cover glass)
  - LMPlan5X/0.12DIC Work distance: 18.2 mm
  - LMPlan10X/0.25DIC Work distance: 20.2 mm
  - LMPlan20X/0.35DIC Work distance: 6.0 mm
  - PL L50X/0.70 Work distance: 3.68 mm
- DIC push-pull group: Suitable for LMPlan5X、10X、20X DIC objective
- Eyepiece tube: Inclination 45° and IPD :53~75mm
- Focus system: Coaxial coarse/fine with tension adjustable and up stop  
Minimum division of fine focusing: 2.0um
- Nosepiece: Quintuple (backward ball bearing inner locating)
- Stage: Mechanical stage | Size: 242mmX200mm | Moving range: 30mmX30mm

**Tool Makers Microscope RYS TM 200**

Focusing Mechanism: By Rack & Pinion  
Magnification: 30X  
Objective: 2X  
Eyepiece: WF15X (Cross)  
Work Stage: 150mm X 150mm, Graduated 360 degrees rotatable  
Travel X & Y: 25 X 25mm  
Micrometer: 0 to 25 mm, 50 mm Dia, least count 0.01mm  
Table Glass: Dia 90mm approx  
Goniometer: 360 degree with verniers  
Working Distance: 100mm approx  
Illumination: Bottom 6V/20W halogen & Surface 220V Fluorescent Twin lamps  
Power Required: 220-230V AC, 50Hz  
Optional At Extra Cost:  
Digital Micrometers with LC 0.001mm  
Digital Read Out System (DRO) accuracy: 0.005mm OR 0.001mm  
Warranty: Two years against manufacturing defects



## Travelling Microscope **RYS TM2**

Two Motion

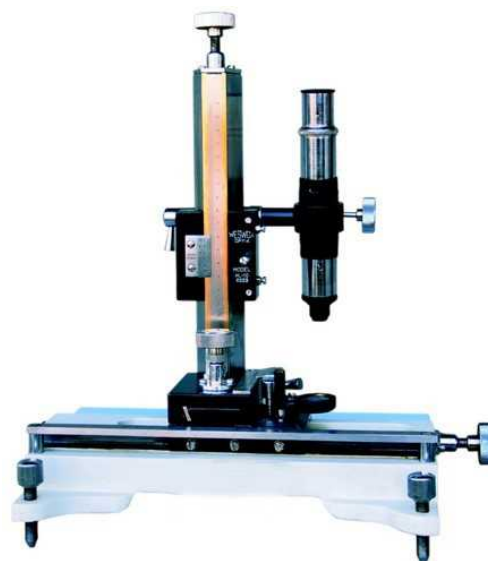


- Lifelong Stainless Steel Scales & Verniers, calibrated on imported Machine Accuracy:  $\pm 0.001\%$ .
- Tech Specs: Cast iron heavy base fitted with three leveling screws with top machine to take a travelling metallic carriage free to move long scale and holds clamping screw, when tightened connects the carriage to a spring loaded bar
- Precision lapped vertical and horizontal carriages with fine movement free from lateral shift or chattering. Travel horizontally 165mm and vertically 120mm
- Verniers both reading to 0.02mm or 0.01mm
- Special rigid fixing of the vertical pillar to the horizontal carriage, ensuring true vertically even with rough usage
- Wider object platform with optical white top. Special rust proof best quality stainless steel scales finely graduated
- Focusing of microscope tube by rack and pinion and microscope consisting of 10x eyepiece Ramsden with fine glass graticule
- Achromatic 2" or 3" focal length objective made from highest quality optical glass
- Coarse movements of vernier scale by hand & fine movements through milled head
- Extended fine adjustment range 20mm for each carriage
- Index marks denote the true vertical and horizontal positions of the tube
- The instrument is furnished in epoxy finish with bright chrome plated parts, packed in a Styrofoam molded box or in a plywood cabinet with dust cover

## Travelling Microscope **RYS TM 4**

Three Motion

- Both Verniers Reading 0.01 mm Read By Magnifiers Scales Horizontal 20 Cm And Vertical 16 Cm. Scales Which Travels Approx. 3 Cms In One Traverse
- Material Stainless Steel
- Features : Precision lapped vertical and horizontal carriages with fine movements free from lateral shift or chartering provided with slow motions
- Wider object platform provided with a milky white perspex sheet
- Special rust proof best quality stainless steel scales finely graduated Traverse slide of 6cms. Ling provided with rack and pinion system for cross wise movements consisting of 10 x ramsden eye pieces with fine glass graticule and 2" or 3" focal length achromatic objective made from highest quality optical glass
- The instrument is furnished in epoxy finish, packed in a plywood cabinet with dust cover



## Travelling Microscope **RYS TM6**

Digital

- 2 Motion (X Z axis i.e. Horizontal Vertical)/ Magnification 10x
  - Provided with one Digital micrometer attachment
  - Cross Wire matched at one side of sample wire
- Digital micrometer is reset to zero  
The micrometer is moved to match other side of sample wire  
It gives directly dia of wire without touching the wire



## Gemological Microscope **RYS GM50**

Binocular

- Viewing head: Binocular
- Eyepiece: WF10X/20mm
- Zoom Objectives: 7X~45X | IP Adjusting Range: 55~75mm
- Gem Clamp of Steel Wire; 8W Fluorescent Gem Lamp (6000K)
- Arm inclined 0~45°, adjusting the high and angle of observing point much more convenient and comfort in operation
- Transmission Lamp-house: 12V 30W
- Side Lamp house: Luminescent Fiber
- Dark field Condenser, Changeable Diaphragm: 2~42mm



## Gemological Microscope **RYS GM52**

Trinocular

- Observation Head: Binocular - inclined at 45° | Lateral tube for digital camera
- Diopter adjustment ring on both ocular tubes (±5) | IPD: 55mm-75mm
- Eyepiece: Extra wide field 10X (Paired) F.O.V. 22mm
- Zooming Range & Ratio Zoom 1X to 4X with magnification ratio of 6.3:1
- Magnification Range: 10X-40X | Working Distance: 115 mm
- Mechanical Body: Complete microscope Stand can be rotated 360°
- Lateral zoom control movement
- Adjustable tweezers for holding Gem & Diamond
- Tilting observation head arm
- Illumination System : Fluorescent tube mounted on flexible arm
- Iris diaphragm mounted on the top of dark field condenser
- Transmitted illumination and incident light intensity controlled bright field and dark field with 12V/ 10W halogen lamp
- Single high power Fluorescent-12V/10W white light intensity adjustable
- Standard Accessories: Operating manual, dust cover, guarantee card and Styrofoam molded pack

## Operating Microscope **RYS SOM 400**

Surgical

- Microscope Focusing Type: Motorized
- Magnification Steps: 5 Step
- Total Magnification: 0.4x, 0.63x, 1.0x, 1.6x & 2.5x
- Binocular Tube: 45 Degree, F=170 mm
- Working Distance: F=200mm objective lens
- Eye Piece: WF 10x/16mm with eye guards
- Light Source: 15v, 150w twin halogen reflector lamp
- Filters: Green & Cobalt Blue
- Vertical Movement of Arm: 600 mm
- Microscope Carriers: XYZ Coupling or Z-axis Ophthalmic carrier
- Keeping in sync with time, we are able to offer Ophthalmic Surgical Microscope to our respectable clients
- Made with high grade raw material & innovative techniques following international quality norms and standards
- Suitably checked on varied parameters to ensure defect-free products are delivered at customers' premises
- Features: Excellent performance | Durable Accurate results  
Easy handling | Low maintenance
- Warranty: 2 years against manufacturing defects



**ENT Microscope RYS ENT 400**

Surgical

- Innovative design, highly versatile with Latest 90 deg. straight Optical system on Floor Stand with Cold light Co-axial illumination
- Magnification: 0.4x, 0.6x, 1.0x, 1.6x & 2.5x | Power Supply: AC 220V to 240V
- Working Dist: F=200mm Objective Lens
- Focusing: Manual Fine Focusing | Head: Five Step Advance Optical System
- Magnification: 0.4x, 0.6x, 1.0x, 1.6x & 2.5x
- Eye Pieces: SWF 12.5x paired super wide field
- Working Dist: F=200mm Objective Lens
- Illumination: LED Light Source with bright white led light
- Arm: Counter balanced pantographic arm with 320° rotation
- Floor Stand: Four caster wheels for easy handling and absolute stability
- Power Supply: AC 220V-240V (110 volts on request)
- Features: Excellent performance | Durable Accurate results  
Easy handling | Low maintenance
- Optional Accessories:  
Beam Splitter with 'C' Mount, CCD Digital Camera, LED Screen for Live Surgery, Motorized with Foot Control
- Objective lens 250mm, 300mm & 400mm, Monocular and Biocular assist scope
- Warranty: 2 years against manufacturing defects

**Dental Microscope RYS DOM 400**

- Magnification 4x, 6x, 10x, 16x & 25x | Pantographic Arm 300 to 560mm
- Voltage: 220V | IPD Adjustment 55mm to 75mm
- Microscope Section: Innovative design, highly versatile with latest 0° to 180° Ergo Tilt optical system
- Eye Pieces: 12.5x Wide Field
- Magnification: 4x, 6x, 10x, 16x & 25x five step magnichanger
- Working distance: F= 250mm objective lens | IPD Adjustment: 55mm-75mm
- Focusing: Manual Fine Focusing
- Illumination Section:  
Light Source: LED Light source with bright white led light  
Illumination Control: Continuous Adjustment | Field of Illumination: 70mm
- Stand Section: Type: Mobile Floor Stand on four castor wheel for easier handling and absolute stability  
Vertical Height Adjustment Range of counter balanced pantographic Arm: 300 to 560mm | Rotation of Arm : 320 with lock | Electrical Power : AC 220V
- Optional Accessories: Attachment : Beam Splitter with 'C' mount and CCD Digital camera Attachment, DSLR Attachment, Rota plate, Motorized Z Axis, Led Screen for live view
- Warranty: 2 years against manufacturing defects







## Digital Camera **RYS MD 130**

1.3mp USB 2.0

- Capture Mode Picture and Video | Active pixels 1280\*1024
- Responsively 1.0V/ lux-sec Dynamic | Range 71dBS/N
- Ratio 44dB | Spectral Range 400-650nm (with IR-filter)
- Frame Rate 17 fps @1280\*1024
- Preview Model 1280x1024, 1280x800, 1024x768, 800x600, 640x480, 352x288, 320x240
- Exposure ERS or Manual Power | Consumption 190mW
- Eyepiece Adapter Size: 23.2mm, 30.0mm
- Power Supply: USB Powered Device
- Weight: 0.32kg | Device Size: Dia 74.00mm\*97.00mm
- Cable length: 1.5m Function of Software Image & video Capture, Edit and Management
- PC Requirements CPU: Inter Core2, 2.8GHz or Higher;
- Memory: 2GB or More; USB Port: USB 2.0 High-speed Port

## Digital Camera **RYS MD 300**

3.0 mp USB 2.0

- Capture Mode: Picture and Video
- Active pixels: 2048\*1536
- Responsivity: 1.4V/lux-sec
- Dynamic Range: 70.1 dBS/N
- Ratio: 38.1 dB
- Eyepiece Adapter Size: 23.2mm, 30.0mm
- Spectral Range: 400-650nm (with IR-filter)
- Frame Rate: 15fps@2048\*1536 (in MJPEG)
- Preview Model: 2048x1536, 1600x1200, 1280x1024, 640x480, 352x288, 320x240
- Exposure: ERS or Manual
- Power Consumption: 381mW
- White Balance Auto and manual
- Cable length 1.5m Out Interface USB 2.0



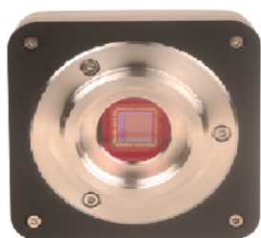
**Digital Camera RYS MD 500**

5.1mp USB 2.0

- Capture Mode: Picture and Video | Sensor Parameter: 1/2.5" 5.0MP
- Max. Resolution: 2592\*1944 | Pixel Size: 2.2µm\*2.2µm
- Responsivity: 1.4V/lux-sec
- Dynamic Range: 70.1dBS/N Ratio38.1dB
- Spectral Range400-650nm (with IR-filter)
- Frame Rate: 10fps@2592\*1944
- Preview Model 2592x1944,2048x1536,1600x1200,1280x1024, 800x600, 640x480,352x288,320x240
- Exposure: ERS or Manual | Power Consumption.381mW
- White Balance: Auto and manual
- Eyepiece Adapter Size: 23.2mm, 30.0mm
- Power Supply USB Powered Device | Weight 0.32kg
- Device Size 97\*φ74 | Cable length1.5m
- PC Requirements: CPU Inter Core2 2.8GHz or Higher; Memory: 2GB or More; USB Port: USB 2.0 High-speed Port

**C-mount CMOS Camera RYS ECOCMOS**

3.1MP to 19MP | USB 2.0



RYS 3.1MP USB 2.0

RYS 5.1MP USB 2.0

RYS 10.1MP USB 2.0

RYS 14.0MP USB 2.0

- Description: Advanced USB 2.0 CMOS camera that adopts ultra-high performance CMOS sensor as the image picking device
- Data transfer interface: USB2.0 | External dedicated on-board buffer is added to achieve maximum Performance of USB2.0
- Resolution: 3.0MP -16MP | With the CNC aluminum alloy compact housing UA comes with advanced video & image processing application iView providing Windows/Linux/macOS/Android multiple platform SDK (Native C/C++, C#/VB.NET, Python, Java, DirectShow, Twain, etc) UA can be widely used in bright-field light environment and microscope image capture and analysis with moderate frame rate
- Other Hardware Configuration: Spectral Range 380-650nm (with IR-filter) for Monochromatic Camera, AR Is Used  
White Balance ROI White Balance/ Manual Temp-Tint Adjustment  
Color Rendering Technique Ultra Fine Color Engine Capture/  
Control SDK Windows/Linux/macOS/Android Multiple Platform SDK (Native C/C++, C#/VB, NET, Python, Java, Direct Show, Twain, etc)
- Recording System: Picture and Movie | Cooling System: Natural
- Operating Environment:  
Operating Temperature:10°C-50°C | Storage Temperature: 20°C-60°C  
Operating Humidity 30~80%RH | Storage Humidity 10~60%RH  
Power Supply DC 5V over PC USB Port
- Software Environment:  
Operating System Support Microsoft Windows XP/Vista/7/8/10(32 & 64 bit) OS X (Mac OS X), Linux
- PC Requirements CPU: Equal to Intel Core 2 2.8GHz or Higher  
Memory: 2GB or more | USB port: USB2.0 High-speed | Display: 17" or Larger



## Touch Screen Camera

## RYS Infy-Touch

Built-in android tab | 5.0mp

- Sensor: 1/2.5" 5.0 Mp Color CMoS
- Active area: 5.70mm x 4.28mm
- Sensor resolution: Dynamic 2304x1728 / 4608x3456 pixels
- Static: 4608x3456 pixels
- Pixel size: 2.8µm x 2.8µm
- A/D conversion: 24 Bit RGB
- Pixel clock: 48 MHZ
- Dynamic range: 60 dB
- Exposure: 1ms-1s auto/manual, white balancing, electronic rolling shutter
- Frame rate: 30 fps (@1920x1080)
- Image processing: High speed fpGA, progressive scan, advanced noise reduction
- Interface: USB 2.0, SD card, USB for wifi mouse
- Optical connection: C-mount
- Voltage supply: DC-12V
- Functions: Full measurement capabilities
- Ambient conditions operating Temperature: 0-60

## Camera 5 MP

720 HDMI

- HDMI interface to stream video to display or HDTV; Aptina CMOS sensor;
- Easy connecting to other equipment on production line with C-mount optical interface;
- Features: High resolution and high frame rate, perfect color reproduction, highly integrated and compact, low failure rate and stable performance; 1280 × 720 (720P) resolutions to match the current high-definition display on the market; HV-720P embedded ImageView based on the Qt platform
- Camera characteristics: Controlled by ImageView through the mouse  
Other basic processing can be realized by the ImageView;
- Usage: HV-720P meets various applications - widely used in industrial inspection, education and research, materials & medical analysis, precision measurement, etc
- Camera Interface: HDMI | HDMI Output Port: USB  
USB Mouse for ImageView Control | DC12V Power Input Slot SD  
SD Slot Dimensions: W x D x H : 50 mm(1.97") x 50 mm (1.97") x 61mm (2.4")
- Shipping Weight: 0.47kg (0.55lbs)
- Operating Environment:  
Operating Temperature (in Centidegree) -10~ 50  
Storage Temperature(in Centidegree) -20~ 60  
Operating Humidity: 30~80%RH | Storage Humidity: 10~60%RH  
Power Supply DC 5V/1A Adapter | Optional Accessories Lens C-mount Lens
- Cable HDMI Cable | Memory Card SD Card
- Mouse USB mouse/USB Wireless Mouse





## Notes

Handwriting practice lines consisting of multiple horizontal dashed lines for notes.

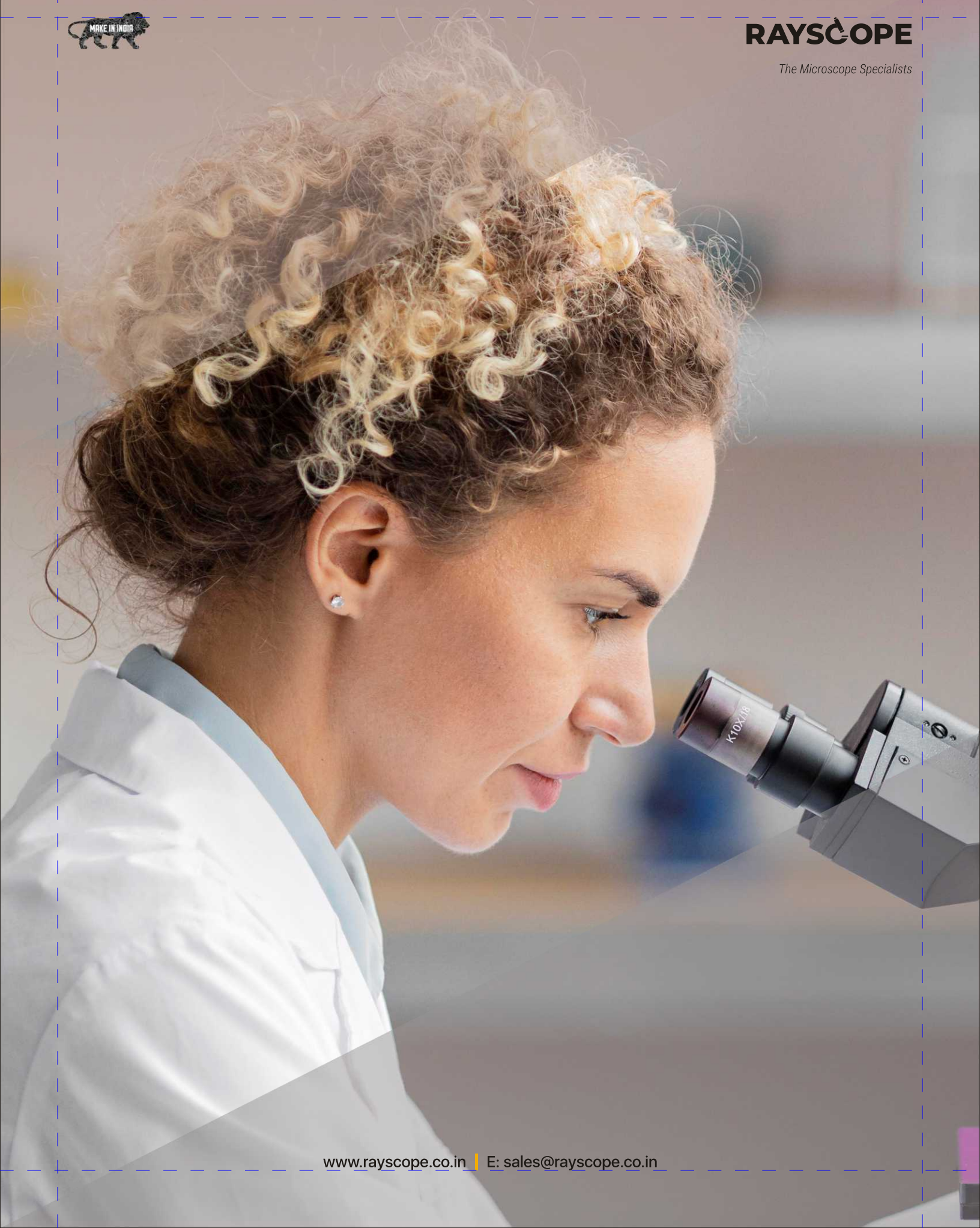


## Notes



# RAYSCOPE

*The Microscope Specialists*





# RAYSCOPE

M I C R O S C O P E S



[www.rayscope.co.in](http://www.rayscope.co.in) | E: [sales@rayscope.co.in](mailto:sales@rayscope.co.in)

Dealer