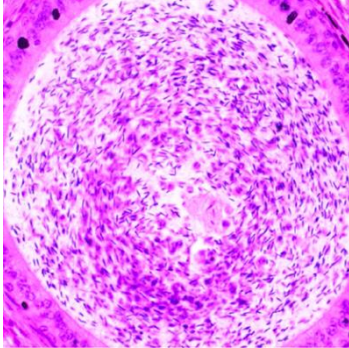




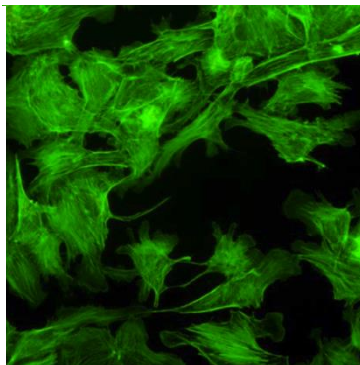
## A12.1061

Laboratory Biological Microscope



Bright Field  
Dark Field  
Phase Contrast  
Simple Polarizing  
Observation  
Combined

Can Upgradeable  
To Fluorescence  
Microscope  
**A16.1062**



Creative Water  
Immersion  
Objective 100x



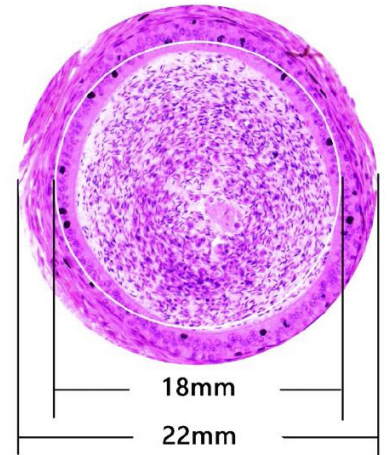
# Excellent Optical Design

## NIS Infinity Optical System

NIS Infinity Plan Objectives Can Provide High Contrast And Very Flat Image Up To F# 22. With F# 22 Wide Field Eyepieces, The System Always Brings You Sharp, Excellent Resolution And High Signal To Noise Ratio Imaging.

## 22mm Wide Field Of View

The A12.1061 Microscope Achieves The Wide Field Of 22mm View With 10x Eyepieces For A More Comprehensive Observation Content And Faster Sample Observation. The Eyepiece Adopts A Flat Field Distortion-free Design To Prevent The Edge Of The Field From Being Imaginary And Stray Light.



## Various Observation Methods

With The Deepening Of Research In Various Fields, A Single Observation Mode Can No Longer Meet The Daily Scientific Research Work. As A Continually Upgradable Microscope, A12.1061 Can Be Extended On Basic Models To Show A Variety Of Observation Capabilities.



## A12.1061 Upgrade To A12.1062

- Objective NIS45 Upgrade To NIS60
- Condenser Upgrade To Coded Nosepiece
- Stand Upgrade To With LCD Screen
- 1W LED Upgrade To 3W LED.

| Observation Methods | Bright Field | Dark Field | Phase Contrast | Fluorescent | Simple Polarizing |
|---------------------|--------------|------------|----------------|-------------|-------------------|
|                     | •            | •          | •              | •           | •                 |

## Multifunctional Universal Condenser

A12.1061 Offers Universal Condensers For Bright Field, Dark Field And Phase Contrast. The Observation Methods Could Be Quickly Switched By Switching The Slider. The Phase Contrast And Bright Field Slider Is Universal For 4x- 100x Objectives Also, Simple And Fast To Use. The N.A. Value Index On The Aperture Diaphragm Of The Condenser Is Easily Set To Get Exact Size Of Diaphragm To Correspond With The Different Objectives.



## LED EPI-Fluorescent Illumination

Can Upgrade To Fluorescent Microscope A16.1062. Led Epi - Fluorescent Illumination Is Safety And Convenient. You Don't Need Time To Warm Up Or Cool Down. You Don't Need To Align The Bulb, And The Long Lifetime Of Led Bulb Is Up To 5000 Hours. There Are Two Filters Position Available And Switching Is Fast And Easy.



## Infinity Optical System

A12.1061 Is Suitable For All Kinds Of Microscopic Using , Especially For Beginners And The Users With Long Time Micro-operation. The A12.1061 Series Of Microscopes Are Fully Optimized For The Needs Of Such Users. In Terms Of The Objectives, The Image Quality And Ease Of Use Are Achieved.



### Plan Objective

By Using Infinity Plan Objectives, Flat Image With Higher Imaging Reduction Degree Over The Entire Field Of View Could Be Achieved.

### 100x Water-immersion Objective

Ordinary 100x Oil-immersion Objective Needs To Use Cedar Oil As The Observation Medium. After Use, It Needs To Be Cleaned With Ether Alcohol Or Xylene, Which Is Easy To Cause Air Pollution And Improper Cleaning. The Water - Immersion Objective Uses Water As A Medium To Solve The Above Problems Perfectly, Reducing The Damage To The Body And Environmental Pollution.



### 40x LWD Objective

The Working Distance Of 40x Objective Can Be Up To 1.5mm, Avoiding The Erosion From Residual Immersion Oil And Water When Converted From 100x To 40x Objective.

## Intelligent Operating System

### Use A Dimming Knob To Achieve Multiple Functions (Available In A12.1062 Series)

One Click: Enter Standby Status; Press + Up-spin: Switch To The Upper Light Source; Double Clicks: Light Lock Or Unlock; Rotation: Adjust Brightness; Press + Down-spin: Switch To The Under Light Source Press 3 Seconds: Set The Time Of Turning Off The Light After Leaving



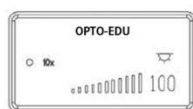
### Coded Nosepiece (Available In A12.1062 Series)

It Can Memorize The Illumination Brightness When Using Each Objective. When Different Objectives Are Converted To Each Other, The Light Intensity Is Automatically Adjusted To Reduce Visual Fatigue And Improve Work Efficiency.

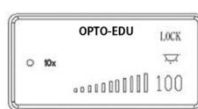


### The Display Of Microscope Use State (Available In A12.1062 Series)

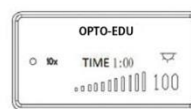
The LCD Screen On The Front Of The Microscope Can Display The Using Status Of The Microscope, Including Magnification, Light Intensity, Sleepy Model, And So On.



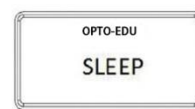
Start & Working Mode



Lock Mode



ECO Mode



Sleep Mode

## Product Specification

| A12.1061, A12.1602 Laboratory Biological Microscope, A16.1062 LED Fluorescent Microscope |                                                                                                                                                                                                                                                                                                                 | A12.1061 |    | A12.1062 |    | A16.1062 |    | Cata. No.     |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|----------|----|----------|----|---------------|
|                                                                                          |                                                                                                                                                                                                                                                                                                                 | -B       | -T | -B       | -T | -B       | -T |               |
| Optical System                                                                           | NIS Infinite Optical System                                                                                                                                                                                                                                                                                     | ●        | ●  | ●        | ●  | ●        | ●  |               |
| Observation Method                                                                       | Bright Field                                                                                                                                                                                                                                                                                                    | ●        | ●  | ●        | ●  | ●        | ●  |               |
|                                                                                          | Dark Field                                                                                                                                                                                                                                                                                                      | ○        | ○  | ○        | ○  | ○        | ○  |               |
|                                                                                          | Phase Contrast                                                                                                                                                                                                                                                                                                  | -        | -  | ○        | ○  | ○        | ○  |               |
|                                                                                          | Epi-Fluorescence                                                                                                                                                                                                                                                                                                | -        | -  | ○        | ○  | ●        | ●  |               |
|                                                                                          | Polarizing                                                                                                                                                                                                                                                                                                      | ○        | ○  | ○        | ○  | ○        | ○  |               |
| Head                                                                                     | Seidentopf Binocular Head, Inclined At 30° , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm                                                                                                                                                                                                            | ●        |    | ●        |    | ●        |    | A53.1061-B    |
|                                                                                          | Seidentopf Trinocular Head, Inclined At 30° , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Fixed 50:50                                                                                                                                                                                   |          | ●  |          | ●  |          | ●  | A53.1061-T    |
|                                                                                          | Seidentopf Trinocular Head, Inclined At 30° , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm, Light Path Switchable 0:100/100:0                                                                                                                                                                        | ○        | ○  | ○        | ○  | ○        | ○  | A53.1061-TS   |
|                                                                                          | Tilting Binocular Head, Inclined 5°~35° , Interpupillary Distance 47-78mm, Eyepiece Tube Dia.30mm                                                                                                                                                                                                               | ○        | ○  | ○        | ○  | ○        | ○  | A53.1061-BS   |
|                                                                                          | Digital Head, Built-in Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time<br>Upgrade to <a href="#">A31.1062-5.0M</a>                                                                                                                                                        | ○        | ○  | ○        | ○  | ○        | ○  | A53.1061-5.0M |
|                                                                                          | Digital Head, Built-in Wireless Digital Camera 5.0M, Support Android, IOS, Windows, Output Image By WIFI In Real Time, App Software, By Scanning QR Code On Microscope, Installing App & Identifying Microscope, You Can View Micro Image On Mobile Phone & Tablet.<br>Upgrade to <a href="#">A31.1062-5.0W</a> | -        | -  | ○        | ○  | -        | -  | A53.1061-5.0W |

|                                                       |                                                                                                                                                                             |   |   |   |   |   |   |                |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|----------------|
| Eyepiece                                              | EW10x/22mm, Diopter Adjustable, Dia.30mm                                                                                                                                    | ● | ● | ● | ● | ● | ● | A51.1029-1022  |
|                                                       | EW15x/16mm, Diopter Adjustable, Dia.30mm                                                                                                                                    | ○ | ○ | ○ | ○ | ○ | ○ | A51.1029-1516  |
|                                                       | EW20x/12mm, Diopter Adjustable, Dia.30mm                                                                                                                                    | ○ | ○ | ○ | ○ | ○ | ○ | A51.1029-2012  |
| Nosepiece                                             | Quintuple Nosepiece, Dovetail Interface                                                                                                                                     | ● | ● | - | - | - | - |                |
|                                                       | Coded Quintuple Nosepiece, Dovetail Interface                                                                                                                               | - | - | ● | ● | ● | ● |                |
| NIS45<br>Infinity Plan<br>Objective                   | 4x/0.10, W.D.20.6mm                                                                                                                                                         | ● | ● | - | - | - | - | A52.1045-4     |
|                                                       | 10x/0.25, W.D.17.9mm                                                                                                                                                        | ● | ● | - | - | - | - | A52.1045-10    |
|                                                       | 20x/0.40, W.D.6.40mm                                                                                                                                                        | ○ | ○ | - | - | - | - | A52.1045-20    |
|                                                       | 40x/0.60, W.D.1.50mm                                                                                                                                                        | ● | ● | - | - | - | - | A52.1045-40    |
|                                                       | 60x/0.80, W.D.0.30mm                                                                                                                                                        | ○ | ○ | - | - | - | - | A52.1045-60    |
|                                                       | 100x/1.25(Oil), W.D.0.16mm                                                                                                                                                  | ● | ● | - | - | - | - | A52.1045-100   |
|                                                       | 100x/1.10(Water), W.D.0.16mm                                                                                                                                                | ○ | ○ | - | - | - | - | A52.1045-100W  |
| NIS60<br>Infinity Plan<br>Objective                   | 4x/0.10, W.D.30.0mm                                                                                                                                                         | - | - | ● | ● | ● | ● | A52.1060-4     |
|                                                       | 10x/0.25, W.D.10.2mm                                                                                                                                                        | - | - | ● | ● | ● | ● | A52.1060-10    |
|                                                       | 20x/0.40, W.D.4.8mm                                                                                                                                                         | - | - | ○ | ○ | ○ | ○ | A52.1060-20    |
|                                                       | 40x/0.65, W.D.1.5mm                                                                                                                                                         | - | - | ● | ● | ● | ● | A52.1060-40    |
|                                                       | 60x/0.80, W.D.0.30mm                                                                                                                                                        | - | - | ○ | ○ | ○ | ○ | A52.1060-60    |
|                                                       | 100x/1.25(Oil), W.D.0.3mm                                                                                                                                                   | - | - | ● | ● | ● | ● | A52.1060-100   |
|                                                       | 100x/1.10(Water), W.D.0.2mm                                                                                                                                                 | - | - | ○ | ○ | ○ | ○ | A52.1060-100W  |
| NIS60<br>Infinity Plan<br>Phase Contrast<br>Objective | 10x/0.25, W.D.10.2mm                                                                                                                                                        | - | - | ○ | ○ | ○ | ○ | A5C.1060-10    |
|                                                       | 20x/0.40, W.D.12.0mm                                                                                                                                                        | - | - | ○ | ○ | ○ | ○ | A5C.1060-20    |
|                                                       | 40x/0.65, W.D.0.7mm                                                                                                                                                         | - | - | ○ | ○ | ○ | ○ | A5C.1060-40    |
|                                                       | 100x/1.25(Oil), W.D.0.2mm                                                                                                                                                   | - | - | ○ | ○ | ○ | ○ | A5C.1060-100   |
| Focusing                                              | Coaxial Coarse & Fine Adjustment, Tension Adjustable, Fine Division 0.002mm, Coarse Focusing Range 28mm                                                                     | ● | ● | ● | ● | ● | ● |                |
| Working Stage                                         | Double Layer Mechanical Rackless Stage, Size 230x150mm, Moving Range 78x54mm                                                                                                | ● | ● | - | - | - | - |                |
|                                                       | Double Layer Mechanical Rackless Stage, Size 230x150mm, Moving Range 78x54mm, Anti-Scratch Hard Coating Dural Platform                                                      | - | - | ● | ● | ● | ● |                |
| Condenser                                             | Inserted Abbe Condenser N.A. 1.25, With Slot For Phase Contrast Slide And Dark Field Slide.                                                                                 | ● | ● | ● | ● | ● | ● |                |
| Illumination                                          | 1W S-LED Critical Illumination                                                                                                                                              | ● | ● | - | - | - | - |                |
|                                                       | 3W S-LED Kohler Illumination                                                                                                                                                | - | - | ● | ● | ● | ● |                |
|                                                       | Green Filter                                                                                                                                                                | ● | ● | ● | ● | ● | ● |                |
| Dark Field                                            | Dark Field Slide                                                                                                                                                            | ○ | ○ | ○ | ○ | ○ | ○ | A5D.1062       |
| Polarizing                                            | Simple Polarizing Set                                                                                                                                                       | ○ | ○ | ○ | ○ | ○ | ○ | A5P.1008       |
| Phase Contrast                                        | Phase Slider For 10x-40x                                                                                                                                                    | ○ | ○ | ○ | ○ | ○ | ○ | A5C.1062-S1040 |
|                                                       | Phase Slider For 100x                                                                                                                                                       | ○ | ○ | ○ | ○ | ○ | ○ | A5C.1062-S100  |
| Epi-<br>Fluorescence<br>Attachment                    | 3W LED Epi-Fluorescence Attachment, Fly-Eye Lens Illumination, With 2 Filter Position + Bright Field Position, Switch Quickly, With Attachable UV Shield, B, G Filters      | ○ | ○ | ○ | ○ | ● | ● | A5F.1062       |
|                                                       | Filter U                                                                                                                                                                    | ○ | ○ | ○ | ○ | ○ | ○ | A5F.1062-U     |
|                                                       | Filter V                                                                                                                                                                    | ○ | ○ | ○ | ○ | ○ | ○ | A5F.1062-V     |
| Photo Adapter                                         | 1.0x C-Mount                                                                                                                                                                | ○ | ○ | ○ | ○ | ○ | ○ | A55.1062-1.0   |
|                                                       | 0.5x C-Mount                                                                                                                                                                | ○ | ○ | ○ | ○ | ○ | ○ | A55.1062-0.5   |
| Power Supply                                          | AC 100-240V,50/60Hz                                                                                                                                                         | ● | ● | ● | ● | ● | ● |                |
|                                                       | USB Charging Port, Support To Use Exeternal Rechargeable Battery Power Bank Like Mobile Phone Out Door Freely                                                               | ● | ● | ● | ● | ● | ● |                |
| LCD Screen                                            | LCD Screen On Front Of Body, Display Using State Of Microscope, Including Magnification, Light Intensity, Standby Status, Set Power Off Timer 5 Mins to 8 Hours, And So On. | - | - | ● | ● | ● | ● |                |
| Dimensions                                            | 220(W)x290(D)x472(H) mm                                                                                                                                                     | ● | ● | ● | ● | ● | ● |                |

Note: "●" In Table Is Standard Outfits, "○" Is Optional Accessories "-" Is Unavailable

## This Is An Unbounded Microscope

A12.1061 Has The Multifunctional Digital Head, The User Does Not Have To Be Confined In Front Of The Microscope. Instead, It Can Be Used For Mobile Microscope Teaching And Outdoor Field Observation Through Mobile Terminals And External Mobile Power. The Objective, Eyepiece, And Observation Tube Are Effectively Anti-mold Treated, So You Can Ensure A Consistently Clear Image And Extend The Life Of The Microscope, Even When Working In Hot And Humid Environments.



### A31.1062 Digital Microscope, WIFI & USB

Built-in Camera 5.0M, USB 2.0 or WIFI Output, Supporting Android, IOS, Windows Operating System, Wired And Wifi Modes The Image Under The Microscope Can Be Output To The External Device In Real Time, And There Is No Data Line Connection, And The Operator Can Move More Freely.

### Professional Microscopic Imaging Software

Microscopic Imaging Observation, Analysis And Processing Can Be Performed On External Devices, Including Photographing, Measurement, Image Adjustment, Storage, Synthesis, Etc.



### Mobile Devices Perform Image Browsing And Processing By Scanning Code

A31.1062-5.0W WIFI Digital Microscope, By Scanning The Qr Code On The Microscope, Installing The App And Identifying The Microscope, You Can View The Microscopic Image On Your Phone And Tablet.



### External Rechargeable Battery

A USB Charging Port Is Reserved On The Body, Which Can Be Used As A Microscope Power Source. This Microscope Can Also Be Used Outside And During Power Outages To Get Rid Of The Microscope's Dependence On The Power Outlet.

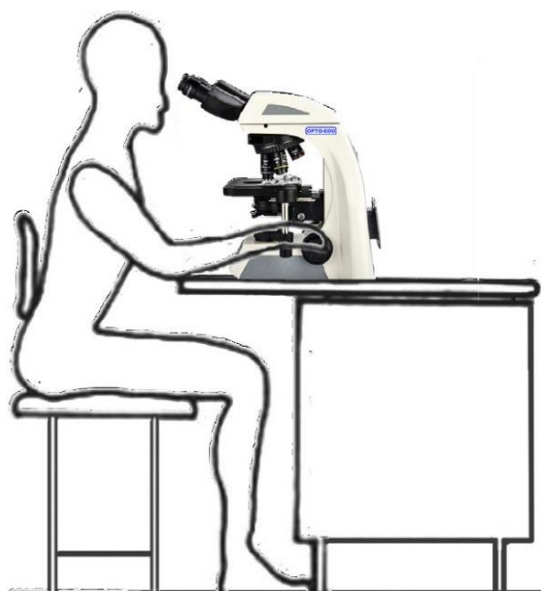
## Easier To Store, Transport And Store

The Microscope Is Compact And Can Be Placed In An Ordinary Classroom Closet. It Has A Special Carrying Handle, And Is Also Lightweight And Stable. The Microscope Back Plate Is Designed With A Hub Device To Effectively Store The Long Power Cord, Improve The Cleanliness Of The Laboratory, And Reduce The Tripping Accident Caused By The Long Power Cord During The Carrying Process. The Wooden Storage Box Is An Optional Accessory That Is Very Convenient For Storage And Carrying.

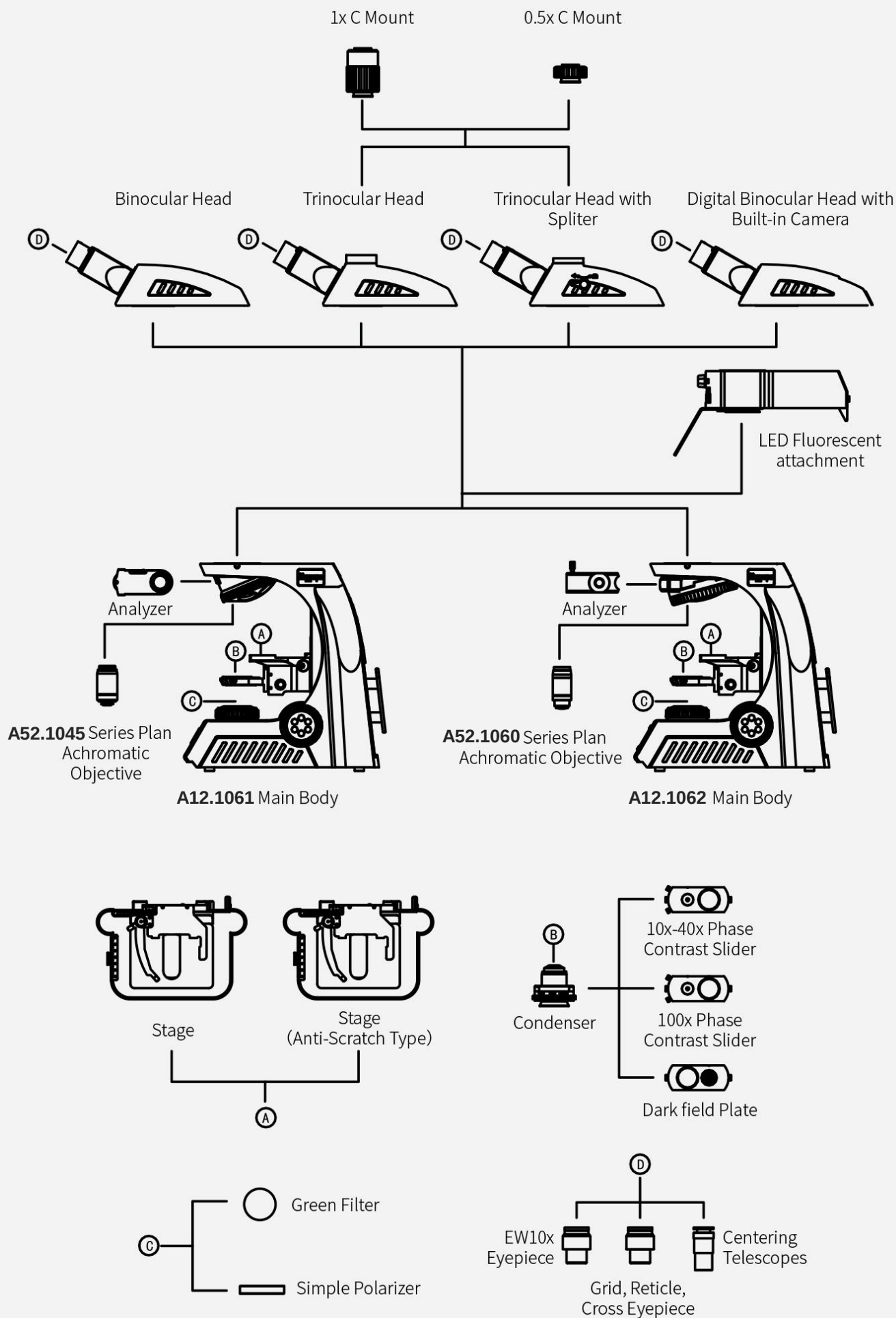


## Ergonomic Design

In Daily Scientific Research Teaching And Pathological Diagnosis, Working In Front Of The Microscope For A Long Time Has Become The Norm, And The Consequent Use Fatigue Often Leads To Physical Discomfort, Thereby Reducing Work Efficiency And Effectiveness. This A12.1061 Microscope Uses An Ergonomic Design, High Eye-point, Low-hand Focus Mechanism, Low-hand Stage And Other Ergonomic Designs To Ensure The User Can Perform Microscope Operation In The Most Comfortable Situation. . The Focus Knob, Illumination Control Knob And Stage Handle Are All In Close Proximity. The User Can Put Both Hands On The Table While Working, And Can Operate A12.1061 With Minimal Movement.

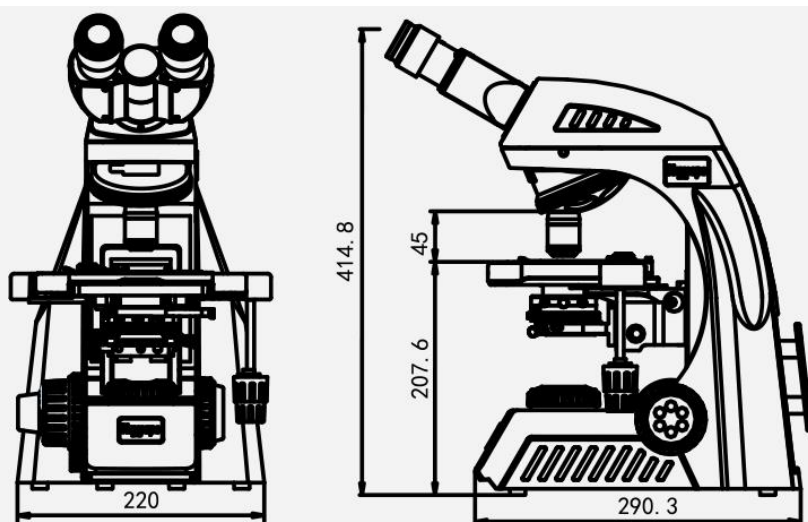


# System Diagram



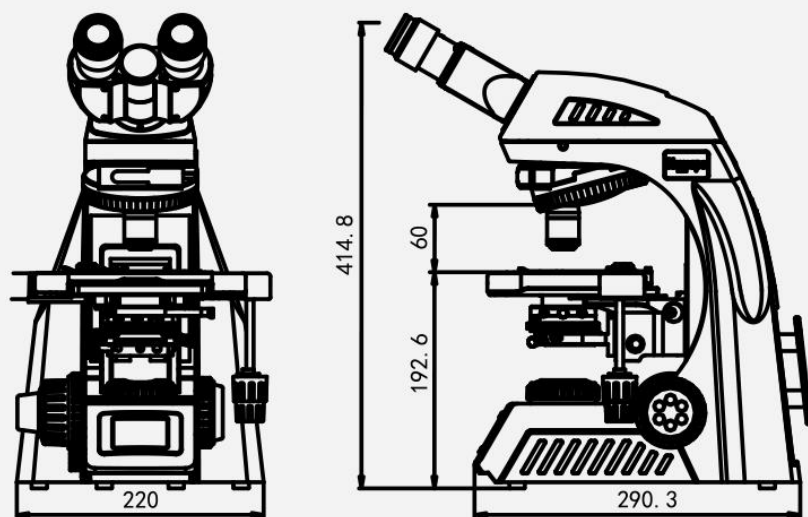
## A12.1061 Dimension

Unit: mm



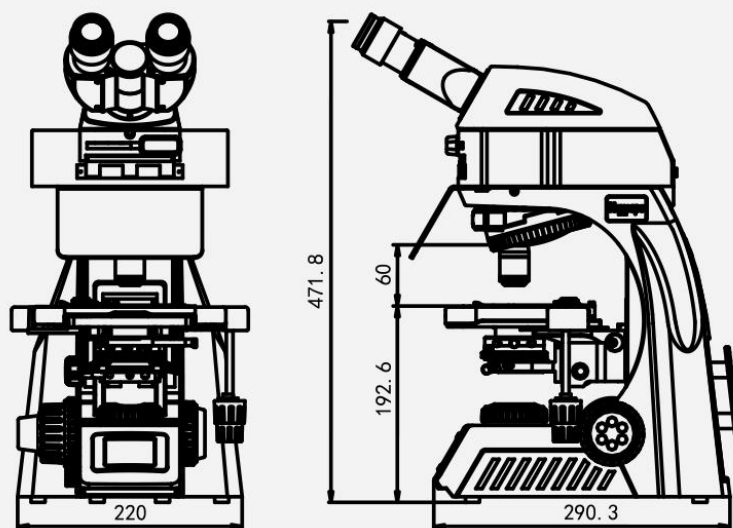
## A12.1062 Dimension

Unit: mm



## A16.1062 Dimension

Unit: mm



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MICROSCOPE IS OUR FOCUS

# The Key To Micro World

Opto-Edu is one of the most professional supplier for microscope & educational instruments from China. We have been focusing in this field for more than 25 years, has a professional sales team who can assist our customer to find the BEST SELECTED microscope with competitive price and 3 YEARS Warranty.

25+ Year professional experience we know Microscopes the best!

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200+ Hot sale microscopes & Newest Models Updated Every Month

750+ Customer from all over the world & keep rising every day

1500+ Microscope products create your one-stop purchase platform

3000+ Educational Instruments For School, College And University Teaching

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MICRO  
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Opto-Edu (Beijing) Co., Ltd.

F-1501 Wanda Plaza, No.18 Shijingshan Road, Beijing 100043, China

Official Main Website: [www.optoedu.com](http://www.optoedu.com)

[www.cnoec.com.cn](http://www.cnoec.com.cn), [www.optoedumicroscope.com](http://www.optoedumicroscope.com), [www.microscopemadeinchina.com](http://www.microscopemadeinchina.com)

Skype: xincnoec Wechat, Mobile, WhatsApp: +86 13911110627

Tel: +86 10 88696085 Email: [sale@optoedu.com](mailto:sale@optoedu.com)

