

# SM - 3818

## Stereo Microscope



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

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SM 3818 RESEARCH GRADE STEREO MICROSCOPE	
Optical system	Parallel (zoom-type) Apochromatic Optical System
Zoom mode	Manual
Zoom ratio	1:18
Zoom range	0.75-13.5X
Objective	PLAN APO 1X (NA 0.15, WD 60mm)
Magnification	0.75-13.5X
Eyepiece(F.O.V.mm)	·10X (23) ·10X (22) ·15 X (16) ·20X (12)
Tube(eyepiece/camera port)	·Trinocular tube inclination angle:20° ·Ergo tilting trinocular tube,adjustable from 0-30°
Focusing range	60+99mm
Adapter	DC12V 2A
Base	LED stereo illumination base(OIC build-I illuminator)
Observation method	Bright field, fluorescent,oblique lighting,simple polarizing, dark field

## ►► Research grade Apochromatic parallel light stereo microscope

SM 3818 research grade parallel light stereo microscope zoom ratio could reach 1:18, high numerical aperture (NA) provides excellent image resolution,parallel optical system increases flexibility and applicability of stereo microscopes. Various structural improvements and ergonomic design provide excellent user experience.This stereo microscope can provide excellent solution for high-level life science research and industrial measurement observation.

## ►► Achieve seamless connection from macro to micro

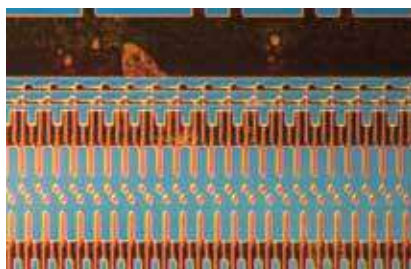
A stereo microscope with zoom ratio of 1:18,  
SM 3818 could achieve 0.75-13.5X zoom range.

## ►► Various observation methods are available

Observation accessories for brightfield, darkfield, fluorescence, OIC illumination, coaxial lighting etc, are optional.

## ►► Ensuring Imaging accuracy and reliability

Newly developed optical system and highperformance objectives are resistant to chromatic aberration, which makes it has high-degree color reproduction and able to show clear and bright images.



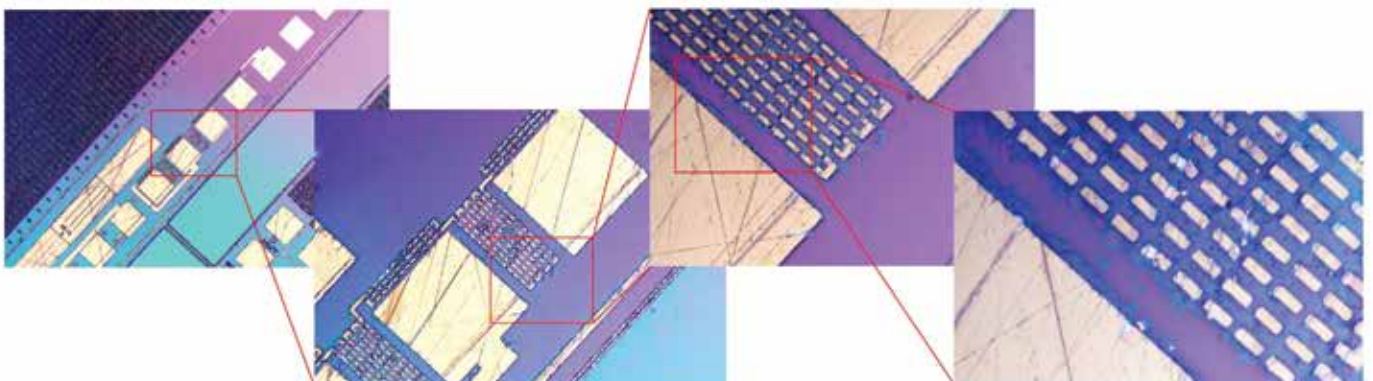
## ►► ACHIEVE SEAMLESS CONNECTION FROM MACRO TO MICRO



## ►► LARGE ZOOM RANGE TO MEET VARIOUS INSPECTION REQUIRES

### 1:18 continuous zoom ratio

0.75X-13.5X zoom objective, zoom ratio reaches 1:18, you can observe low-magnification imaging and highmagnification imaging in one system at the same time, which helps to reduce time for sample transfer .

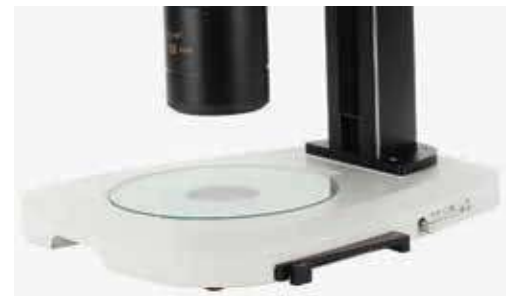


## ►► **Observe tall, thick and irregular samples without collision**

Industrial samples, such as circuit boards are usually uneven and very heavy, SM 3818 guaranteed 60mm working distance at highmagnification, it has greatly increased distance between sample and objective compared with conventional microscopes, reduces collision during observation, both microscope and sample can be protected.



The base has a built-in OIC lighting device, joystick on the side can be slid to change lower lighting to oblique lighting. It enhanced surfaces contrast for colorless and transparent sample.



Newly designed 1X PLAN APO large objective brings excellent resolution and chromatic aberration correction.



## ►► VARIOUS OBSERVATION ACCESSORIES

### Eyepiece

Various magnification eyepieces are available, all eyepieces are adjustable to ensure all users could get clear eyepiece imaging.



### Optical fiber illuminator

Flexible optical fiber gooseneck can be adjusted according to observation require, changing lighting direction and angle, presenting the best imaging contrast and effect.



### Epi-fluorescence components

Adopting long-life, high-brightness LED fluorescent lighting, fly eye lens ensure uniform illumination even in low-magnification field of view, filter with high transmittance, high OD value, high-gradient helps to realize excellent signal-to-noise ratio and clear fluorescence image.



## Coaxial Lighting parts

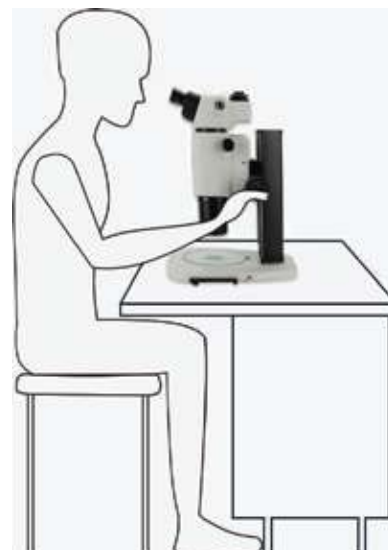
Providing more uniform illumination than traditional light source, suitable for strong surface scattering or thick and textured samples, Helps to get stronger image contrast and resolution.



## ►► MORE COMFORTABLE OPERATING EXPERIENCE

### Comfortable viewing head

Trinocular observation head with adjustable interpupillary distance and adjustable diopter, height of eye baseline can improve 47mm. Optional tilting trinocular observation head, adjustable from 0-30°, enables you to observe in the most natural and comfortable position.



## Thin-type base

Microscope base is thinner, which helps to reduce moving distance when change samples, thus improving the efficiency of sample observation and reducing fatigue.

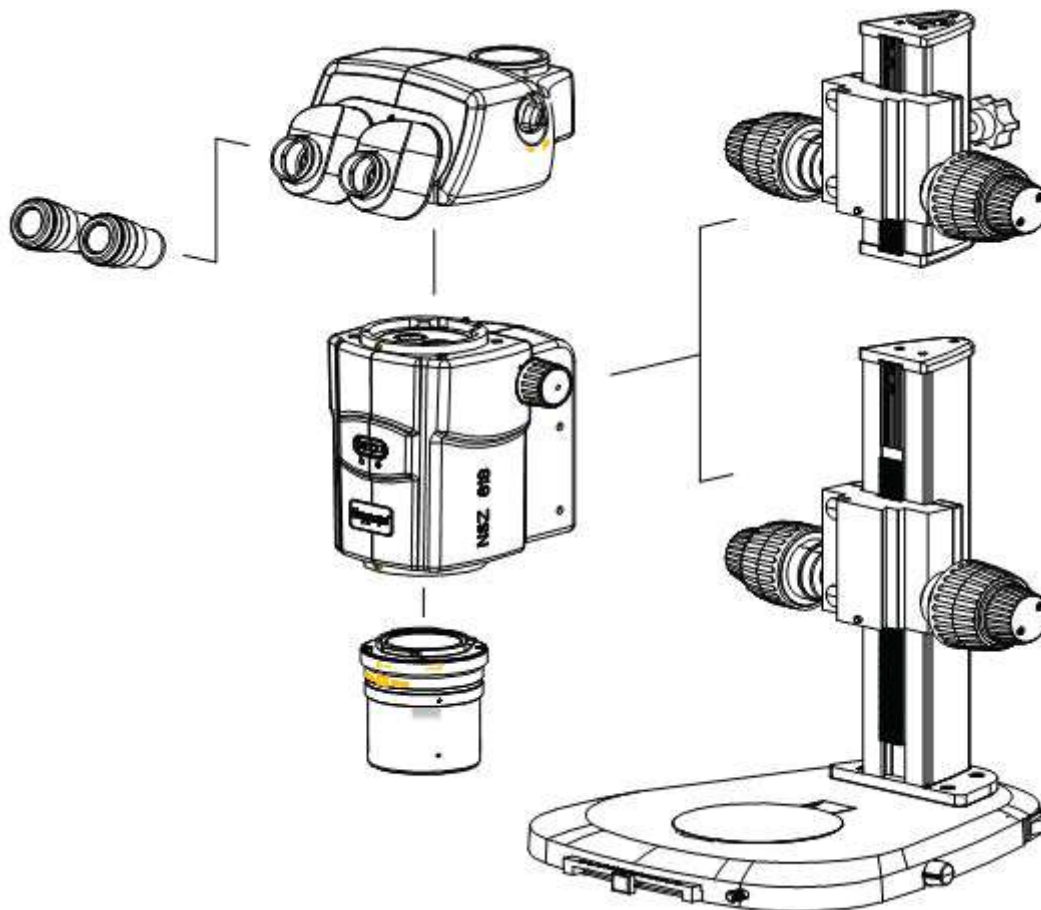


Traditional Base



Thin-type base

## ►► SYSTEM LAYOUT



## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

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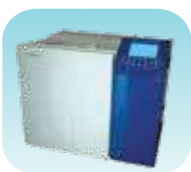
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Infra FTIR



Optima Gas  
Chromatograph  
3007



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2979 Plus



Flash  
Chromatograph



Atomic Absorption  
Spectrophotometer



Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



DSC/TGA



Semi Auto Bio  
Chemistry Analyzer



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Hematology  
Analyzer



Micro Plate  
Reader/Washer



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Urine Analyzer



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Laser Particle  
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Ion Chromatograph



Water purification  
system

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.



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