

# BA310Net Metallurgical Microscope

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The ideal instrument for inspection and analysis of electronic components, materials, minerals and precision molds.

Match all applications for educational, industrial and scientific research use.

The coaxial EPI illumination system and CCIS® M-Plan metallurgical objectives, provides optimal brightness and image quality.









# **Objectives**

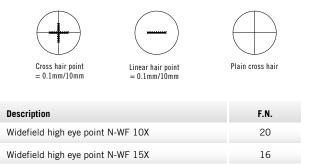
To improve the overall optical performance of the BA310MET, Motic introduces a newly designed generation of Plan Achromatic Objectives made of high quality optical glass; CCIS® M Plan. These new lenses are now multi-layer coated for improved contrast and to enhance images.

Magnification	N.A.	W.D. (mm)
Plan 5X	0.13	11.5
Plan 10X	0.3	6.8
Plan 20X	0.4	11.1
Plan 50X	0.55	8.2
Plan 100X	0.8	2

## **Eyepieces**

The new standard eyepieces, made of high quality optical glass, N-WF 10x/20 FOV with high-eyepoint for eyeglass wearers provide consistent diopter adjustments for both eyes. This enables perfect usage of reticles for measuring, counting, etc. Standard lockable eyepieces ensure against inadmissible removal and confirms Motic's dedication to student proof quality.

The following reticles are available:



# **Observation Tubes**

New designed-eyepiece tube(erect imgage) with an ergonomic viewing angle of 30° and incorporating an interpupillary distance of 55-75mm, the observation tubes guarantee fatigue-free viewing for hours.

A large field of view option (20mm) enables fast and comfortable screening.

The trinocular tubes allow digital documentation and integration of each observation head into a wide variety of digital cameras, with optional 20/80 or 0/100 light splits for the trinocular exit.

High quality Brightfield metallurgical objectives. Infinity corrected F=200mm



# **Epi-illumination**

12V/50W halogen provides sufficient light intensity for all microscopy applications. Adjustable field diaphragm and centering mechanism guarantee homogenous illumination.

Optional polarizing observation is available!



## **Mechanical Stage**

Special three-ply stage provides more convenient slide movement. The new slide holder enables consistent sample movement across a 76 x 50mm range with a stage area 180mm x 140mm. The model also offers a hard coated surface, resistant against routine usage abrasion and most lab chemicals. 30mm focusing range with 2u minimum increments provides ample operational room.



## Accessories

BA310Met could be upgraded freely. It has not only traditional Metallurgical function but also digital documentation and polarizing observation function.





# **Anti-Fungus Design**

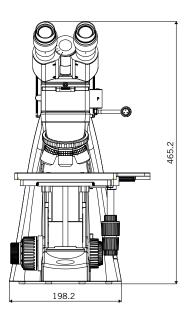
To protect the system from fungus growth in high-humidity environments, an anti-fungus treatment is applied to prolong the life of both microscope and objectives.

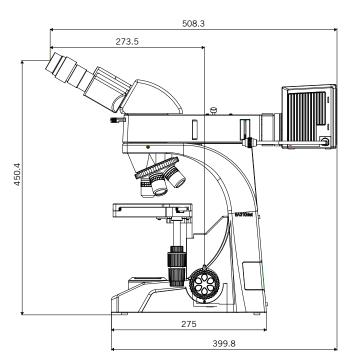
# **BA310Met Standard Specifications**

Model	BA310Met
Optical System	Color Corrected Infinity Optical System [CCIS®]
Observation Tube	Widefield binocular 30° [F.N. 20] Widefield trinocular 30° [F.N. 20]- light distribution 20/80
Nosepiece	Reversed quintuple
Stage	180 x 140mm surface; 76 x 50mm movement; coaxial movement
Focus	Brass gears 25mm stroke; 2µm minimum increments; torque adjustment for coarse; stage lock
Illumination	12V/50W Epi-Illumination

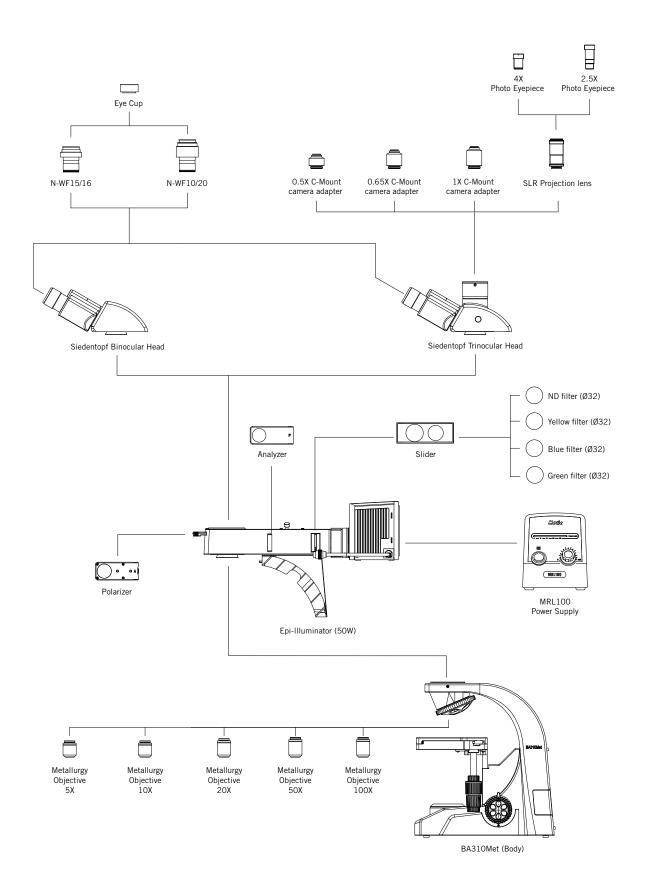
# **BA310Met Schematic Diagrams**

Unit:mm





# **BA310Met System Diagrams**



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Design Change : The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation



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