



Motic®

MORE THAN MICROSCOPY

BA310 | ADVANCED UPRIGHT Microscope

BA310 | ADVANCED UPRIGHT Microscope

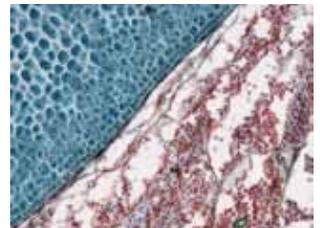
The BA310 from Motic is designed specifically for the rigors of daily routine work in the demanding applications of **Universities, Clinics, Laboratories,** and any other life science or medical application requiring **quality optical performance.** Using Motic's Color Corrected Infinity Optics (**CCIS®**) with **newly designed EF-N Plan Achromats,** this model's full Koehler configuration provides maximum illumination quality for even the most demanding samples. Also, the BA310's upgradeability to include additional contrast methods and discussion devices, ensure this model will offer **long term functionality to all user levels** in a variety of applications.

Objectives

To improve the overall optical performance of the BA310, Motic introduces a newly designed generation of Plan Achromatic Objectives made of **high quality optical glass; CCIS® EF-N Plan.** These new lenses are now multi-layer coated for **improved contrast** to enhance images even with weak slide stainings. Together with a new calculated tube lens, the result is a **fully corrected, perfected intermediate image without colored fringes.**



Description	N.A.	W.D.(mm)
EF-N Plan 4X	0.10	6,3
EF-N Plan 10X	0.25	4,4
EF-N Plan 20X	0.40	4,66
EF-N Plan 40X, Spring	0.65	0,35
EF-N Plan 60X, Spring	0.85	0,13
EF-N Plan 100X, Spring, Oil	1.25	0,13
EF-N Plan Phase 10X	0.25	4,4
EF-N Plan Phase 40X, Spring	0.65	0,35





Eyepieces

The new **standard eyepieces**, N-WF 10X/20 with **high eyepoint** for eyeglass wearers, also made of **high quality optical glass**, provide consistent diopter adjustment for both eyes. This enables perfect usage of reticles for measuring, counting, etc. Lockable eyepieces prevent inadmissible removal and confirms Motic's dedication to **student proof quality**.

Eyepiece Tubes

Designed with an **ergonomic viewing angle** of 30° and incorporating an interpupillary **distance of 48-75mm**, the BA310 observation tubes guarantee fatigue-free viewing for hours. A large field of view (20mm) enables fast and comfortable screening. All standard eyepiece tubes now offer an extended **“butterfly” swivel adjustment** to increase the viewing height to accommodate individual user's positioning. The trinocular tubes allow digital documentation by using a wide variety of digital cameras, with 20/80 or optional 0/100 light splits for the trinocular exit.

Illumination

The BA310 offers multiple illumination options, such as the **Koehler 6V/30W Halogen or 3W LED**.

Multi Viewing Devices

The BA310 Series offers **multi-viewing teaching devices**. There are two options available, depending on the teaching situation in your laboratory; **face to face or side by side**. The standard field of view of 20mm ensures that maximum information will be given to the student. Depending on the sample, the user can activate the **built-in LED pointer** in red or green color.

Contrast Techniques

Phase Contrast - Slider solution

Offered as an option, phase contrast is available for objectives EF-N Plan Phase 10X/0.25 and EF-N Plan Phase 40X/0.65.

Darkfield - Slider solution

Darkfield is possible with a separate DF slider (up to 40X, max. N.A. 0.65).

Polarization

Convenient and easy, the BA310 polarization system consists of a **polarizer**, placed on top of the collector lens, and the **analyzer** placed between the head and body.

Phase Contrast - Turret condenser

This Turret condenser contains the light rings for all EC-H Phase lenses 10X / 20X / 40X / 100X as well as a Dark field stop and a Bright field position. The corresponding objectives are:

CCIS® EC-H Plan Phase Objectives	W.D.(mm)
PL Ph10X/0.25	17.4
PL Ph20X/0.45	0.9
PL Ph40X/0.65	0.5
PL Ph100X/1.25 Oil	0.15



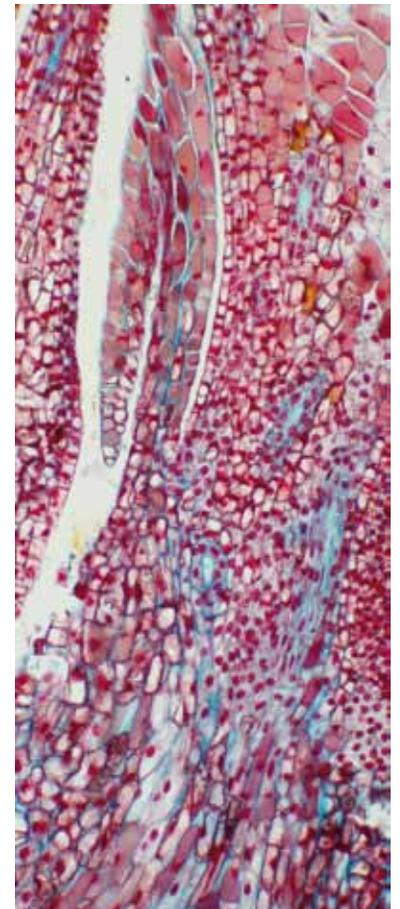
General Specifications

- Binocular/Trinocular head Siedentopf type, 30° inclined, 360° rotating (light split in trinocular head 100:0/20:80)
- Interpupillary distance 48-75mm
- Widefield high eyepoint eyepieces, N-WF10X/20mm, with diopter adjustment on both eyepieces and rubber eyecups
- Reversed quintuple revolving nosepiece
- CCIS® EF-N Plan 4X, 10X, 40X S and 100X S-Oil
- Coaxial coarse and fine focusing system
- Built-in low position coaxial mechanical stage (right hand control)
- Focusable Abbe condenser N.A. 0.90/1.25 with iris diaphragm and slot
- Koehler illumination Quartz Halogen 6V/30W or 3W LED with intensity control
- Universal power supply 100-240V
- Blue filter, immersion oil, power cord, Allen hexagonal key, thumb screw and vinyl dust cover are included.

Digital Documentation

The importance of documentation has expanded into every aspect of microscopy, as has the method of documentation. The BA310 is available with both a traditional method (photomicrography) and a digital method. Digitalization of microscopic results is Motic's philosophy and the BA310 provides **two methods. The combination** of the BA310 trinocular microscope **with the Moticam Series** of digital cameras delivers crisp live images easy to be saved. **All Motic cameras come equipped with software** to convert the BA310 into an analysis and documentation station.

Another digitalization option is to replace the conventional head with the **Digital head**, transforming the BA310 into a **teaching, training, and analysis station. With a USB2.0 output** to the computer, the system provides **high resolution imaging in both real time and capture modes.**



Motic[®]



Canada | China | Germany | Spain | USA

www.moticeurope.com