Motic®

MORE THAN MICROSCOPY

BA210 | BASIC BIOLOGICAL Microscope

BA210 BASIC BIOLOGICAL Microscope

Motic's **BA210 is designed for both educational and teaching environments from basic life sciences to medical applications.** The BA210's standard configuration best meets the needs of the high school, College-University, and Medical school markets. Through newly formulated Motic Infinity Optics (CCIS®), the BA210 delivers a new higher level of performance in education and training.

Objectives

To improve the overall optical performance of the BA210, 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 30º** and incorporating an **interpupillary distance of 55-75mm,** the BA210 observation tubes guarantee **fatigue-free viewing for hours.** A large field of view (20mm) enables fast and comfortable screening. The trinocular tubes allow digital documentation and integration of each BA210 by using a wide variety of digital cameras, with a **20/80 light split for the trinocular exit. On special request, an eyepiece tube with 48-75mm interpupillary distance is available.**

Illumination

The BA210 introduces a **new collector lens assembly** with a secure, screw-on holder for the frequently used Blue daylight filter, which is an integral part of the illumination package. The fixed cap prevents the filter from dropping when the instrument is stored. The BA210 offers multiple illumination options such as **6V/30W Halogen, 3W LED or a mirror.**

Contrast Techniques

Phase Contrast and Darkfield

Offered as an option, **phase contrast** is available **for magnifications 10X and 40X,** with the use of a Phase Contrast slider. Darkfield is possible with a **separate DF slider (10X - 40X).**

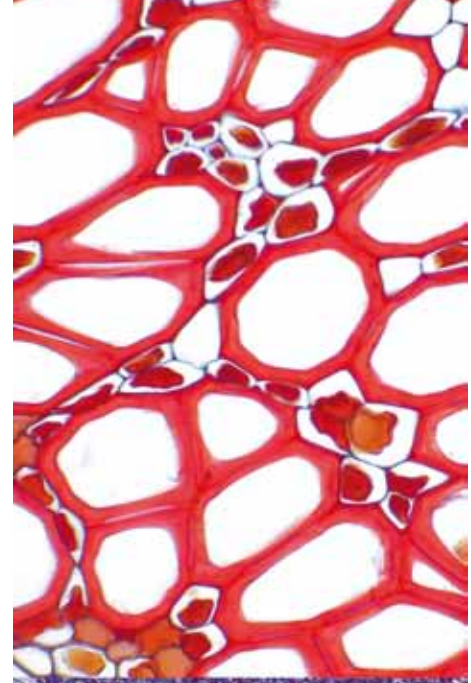
Polarization

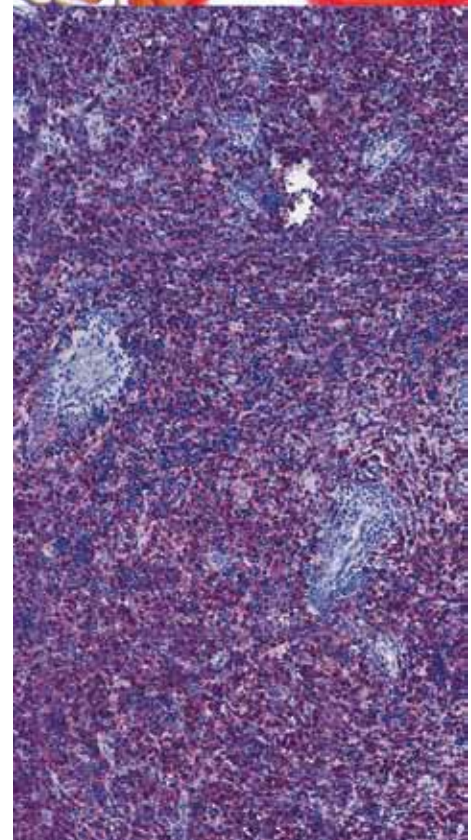
Convenient and easy, the BA210 polarization system consists of a **polarizer,** placed on top of the collector lens, and the **analyzer** placed between the head and body.

Digital Documentation

The importance of documentation has expanded into every aspect of microscopy, as has the method of documentation. The BA210 is available with both a traditional method (photomicrography) and a digital method.Digitalization of microscopic results is Motic's philosophy and the BA210 provides **two methods. The combination** of the BA210 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 BA210 into an analysis and documentation station.

Another digitalization option is to replace the conventional head with **the Digital head,** transforming the BA210 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.**





General Specifications

- Binocular/Trinocular head Siedentopf type, 30° inclined, 360° rotating (light split 100:0/20:80)
- Interpupillary distance 55-75mm
- Widefield high eyepoint eyepieces, N-WF10X/20mm, with diopter adjustment on both eyepieces and rubber eyecups
- Reversed quadruple 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
- Halogen 6V/30W or 3W LED illumination
- Universal power supply 100-240V
- Blue filter, immersion oil, power cord, Allen hexagonal key, thumb screw and vinyl dust cover are included

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