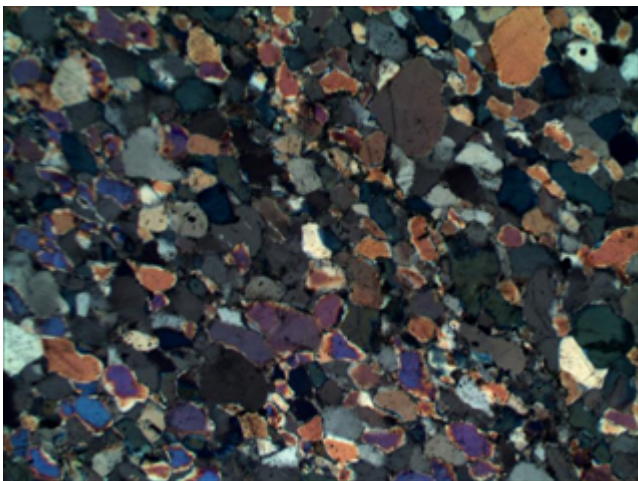
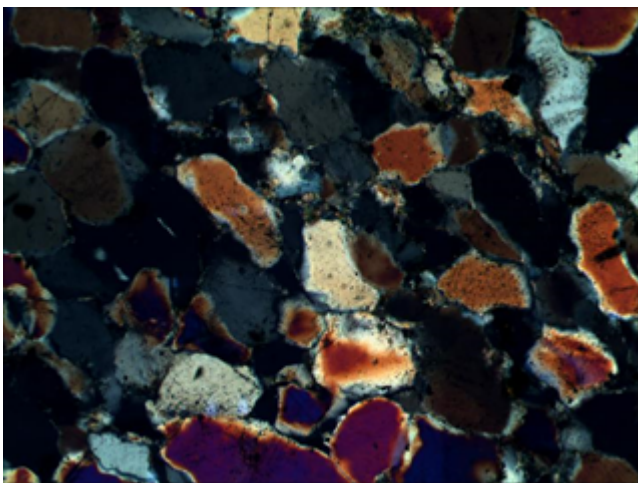


# Polarizing Microscope IMP-2101



Polarizing Microscope IMP-2101 equipped with a high degree of sensitivity and best suited for anisotropic (mineral) specimens such as geology, minerals, metallurgy, university teaching laboratories, and other sectors. Built-in bertrand lens, polarizer and analyzer, 360° rotatable round stage, filter, condenser, etc. The trinocular viewing head with extra wide field eyepieces and has excellent strain-free plan achromatic: 5X/0.12/∞/-15.5 mm, 10X/0.25/∞/-10.0 mm, 20X/0.4/∞/0-5.8 mm, 50X/0.75/∞/0-0.32 mm, 100X/0.8/∞/0-2 mm objectives, and each eye tube has interpupillary adjustment. This series is capable of providing strong images with a broad field of view, the multipurpose and perfect for basic studies of samples properties. Come with 24V/100W Halogen lamp reflected lights, allowing samples to be illuminated for a more comprehensive field of view. Accomplished with the help of particular devices known as retardation plates and optical compensators. First order retardation plate is used in optical path differences ranging from a fraction of a wavelength up to several wavelengths. This flexible and multipurpose tool is known by different names, comprising a red plate, red-one plate, lambda ( $\lambda$ ) plate, gypsum plate, selenite plate, sensitive violet, or simply a color tint plate and quartz wedge plate is a simple, semi-quantitative optical compensator used to examine optical path differences in a wide range of samples by the quartz wedge. Built in a crystalline block of quartz provide parallel or perpendicular optical axis to the edge of the birefringent crystal.

### Sample Images



## Technical Specification:

|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                | IMP-2101                                                                                                                                              |
| Type                 | Advanced Polarizing Microscope                                                                                                                        |
| Viewing Head         | Trinocular head, Inclined at 30°, Interpupillary 48-75mm                                                                                              |
| Optical System       | Infinite                                                                                                                                              |
| Focusing             | Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm/rotation, fine stroke 0.1mm/rotation                        |
| Eyepiece             | Plan eyepiece EW10X22mm and Plan eyepiece with scale of crosshair                                                                                     |
| Nosepiece            | Backward quintuple                                                                                                                                    |
| Objective            | Strain-Free Plan Achromatic :5X, ,10X,20X, 50X, 100X                                                                                                  |
| Stage                | Polarizing Rotatable Stage of length 170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6', 45° click stop knob |
| Light Source         | 24V/100W Halogen lamp reflected                                                                                                                       |
| Optional Accessories | video adaptor and filters                                                                                                                             |
| Lens                 | Bertrand lens                                                                                                                                         |
| Polarising Unit      | Reflected: Fixed                                                                                                                                      |
| Analysing Unit       | 0°-360° rotatable analyzer with gradation, minimum gradation: 0.1°                                                                                    |
| Optical Compensator  | Gypsum $\lambda$ plate (first class red), 1/ 4 $\lambda$ plate, quartz wedge plate                                                                    |
| Catalogue No.        | 440235-05-04                                                                                                                                          |

## Technical Data:

|                        |                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                  | IMP-2101                                                                                                                                             |
| Type                   | Advanced Polarizing Microscope                                                                                                                       |
| Viewing Head           | Trinocular head, Inclined at 30°, Interpupillary 48-75mm                                                                                             |
| Optical System         | Infinite                                                                                                                                             |
| Focusing               | Coaxial coarse & fine adjustment, range 32mm, fine division 0.001mm, coarse stroke 37.7mm per rotation, fine stroke 0.1mm per rotation               |
| Eyepiece               | Plan eyepiece EW10X22mm and Plan eyepiece with scale of crosshair, Plan eyepiece with crosshair, Plan eyepiece with gridding                         |
| Nosepiece              | Backward quintuple                                                                                                                                   |
| Objective              | Strain-Free Plan Achromatic :5X/0.12/?/, 15.5mm,10X/0.25/?/-,10.0mm,20X/0.4/?/0, 5.8 mm, 50X/0.75/?/0,0.32mm, 100X/0.8/?/0,2mm                       |
| Stage                  | Polarizing Rotatable Stage of length 170mm, center adjustable, 360° scale, minimum division 1°, minimum reading vernier scale 6, 45° click stop knob |
| Light Source           | 24V/100W Halogen lamp reflected                                                                                                                      |
| Polarizing Unit        | Reflected: Fixed                                                                                                                                     |
| Analyzing Unit         | 0°-360° rotatable analyzer with gradation, minimum gradation: 0.1°                                                                                   |
| Optical Compensator    | Gypsum ? plate (first class red), 1/ 4? plate, quartz wedge plate                                                                                    |
| Lens                   | Bertrand lens                                                                                                                                        |
| Filter                 | optional                                                                                                                                             |
| Certification          |                                                                                                                                                      |
| Optional Accessories   | video adaptor and filters                                                                                                                            |
| Packing Dimension      |                                                                                                                                                      |
| Packing Weight         |                                                                                                                                                      |
| Electrical Requirement |                                                                                                                                                      |
| Catalogue No.          | 440235-05-04                                                                                                                                         |



Iris Analytical Ltd.

66 W Flagler St #900 Miami, Florida 33130 United States