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Product Name :

Ore Polarising Microscope

Product Code :

SLE/M/42



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Description :

Ore Polarising Microscope (Product Code: SLE/M/42) is a trinocular polarising microscope used to identify ore minerals and study rock specimens in reflected and transmitted polarised light in geology and mining laboratories. It is fitted with two focusable 10X wide-field eyepieces carrying a double cross line, plan POL objectives from 4X to 40X and a colour CCD camera on the trinocular tube. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India, a laboratory equipment supplier in India.

Specifications

Parameter	Detail
Frame	Transmission and reflection mode polarisation microscopy, built-in filter holders
Objectives (planachromatic, polarising)	4X POL N.A. 0.13, W.D. 17.0 mm; 10X POL N.A. 0.3, W.D. 10.0 mm; 20X POL N.A. 0.5, W.D. 2.1 mm; 40X POL N.A. 0.75, W.D. 1.1 mm
Eyepieces	Wide-field 10X, 2 numbers, with double cross line, focusable
Tube	Fixed trinocular tube
Light source	High-power LED light with power supply; built-in transmitted light filters
Nosepiece	Minimum 4-position, centrable and detachable
Focus	Stroke minimum 22 mm; fine stroke minimum 100 μ m
Condenser	Strain-free polarising condenser, swing-out type
Stage	Circular, rotatable and centerable mechanical stage, graduated through 360°
Reflected illumination	Polariser slider for the reflected illumination tube
Rotating scale	360° rotatable, scale interval 5°
Compensator	Wedge shaped, measurement range 0–4°
Camera	Colour CCD camera, minimum 5 megapixel, on the trinocular tube with a suitable mounting adapter
Camera sensor	2/3 inch CCD; resolution 1920 x 1080 pixels; pixel size 3.45 x 3.45 μ m
Product code	SLE/M/42
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Ore Polarising Microscope Used For?

Ore minerals such as sulphides and oxides are opaque, so a geologist identifies them from how they reflect light. The microscope is used to study the mineral grains under crossed polars. The polariser is turned 90° to the light source. The polariser slider on the trinocular tube is used to observe the mineral grains. The transparent minerals are identified by their characteristic colors.

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