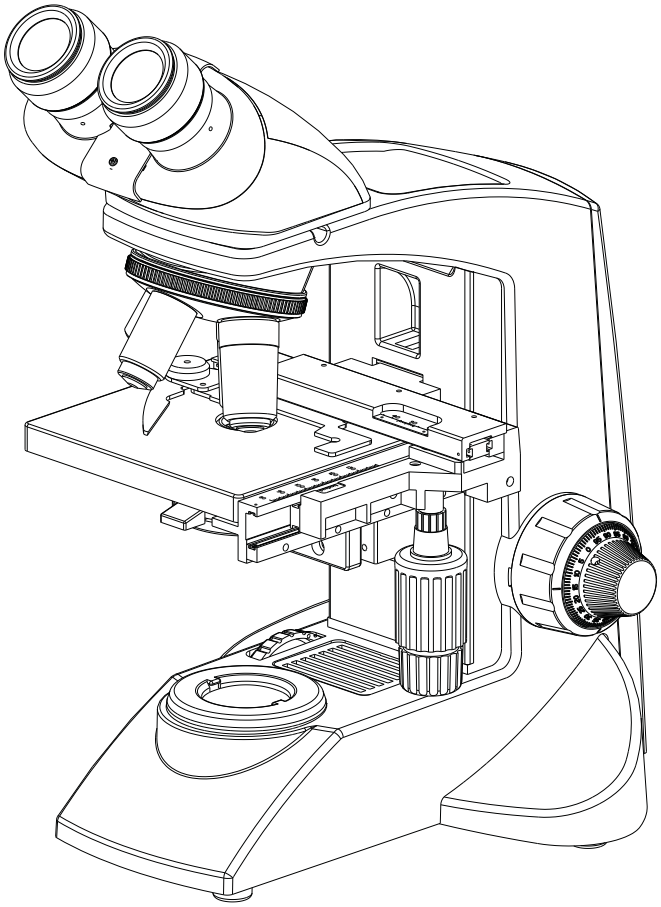
LABOMED
ideas for vision

CxL Polarizing Kit
User Manual



To ensure correct use of this instrument and to avoid injury during operation, read this manual completely before use.

9121035-795

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INTRODUCTION

A polarizer is an optical device that transforms unpolarized (natural) light into polarized light by selectively transmitting polarized rays.

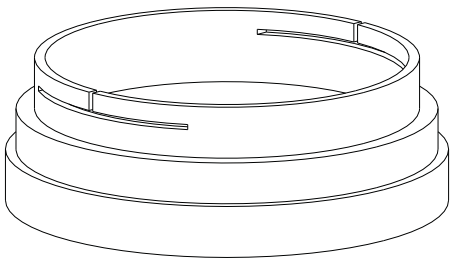
The analyzer is an optical device used to detect the effect that an object has on the polarized light produced by the polarizer.

Polarized light microscopes are highly sensitive and can be used for both quantitative and qualitative studies of a wide range of anisotropic specimens. Polarized light is especially useful for identifying and characterizing mineral crystals.

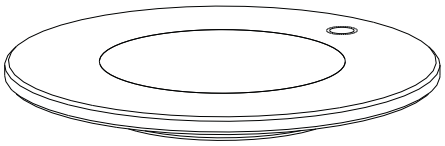
PACKING LIST

CxL Polarizing Kit (9121035)

1) Polarizer
2) Analyzer
3) User guide



1



2

Please make sure that all contents of the polarizing kit are intact. If any physical damage is visible, contact your local distributor.

INSTALLATION

1. Remove the observation head and install the analyzer by placing the positioning pin of the analyzer firmly into the locating hole of the dovetail adapter, as shown in Fig. 1 and Fig. 2. Remount the observation head.

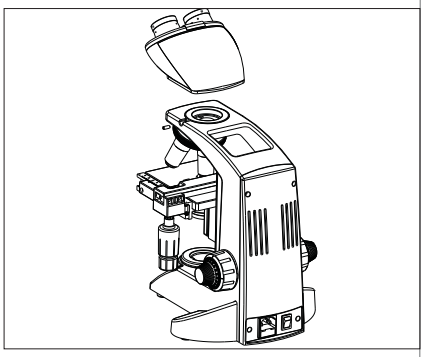


Fig. 1

2. Remove the blue filter from the condenser assembly, as shown in Fig. 3.

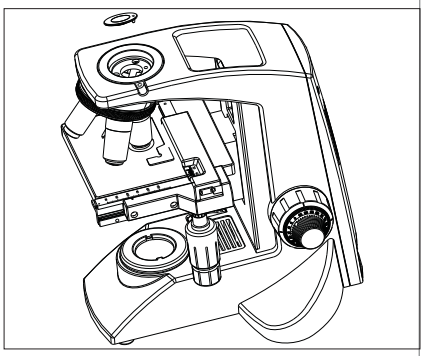


Fig. 2

3. Gently fit the polarizer into the base of the condenser, where the blue filter was removed, as shown in Fig. 4.

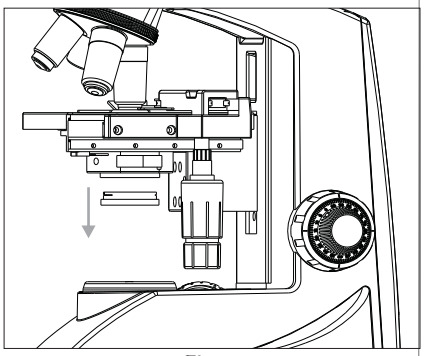


Fig. 3

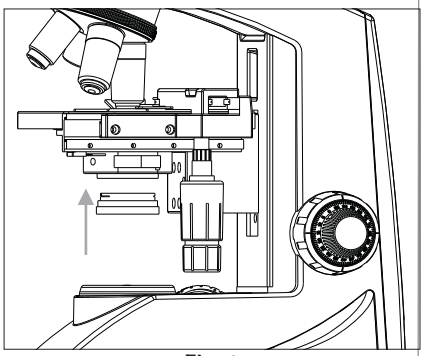


Fig. 4

4. The polarizing kit is now ready for use, as shown in Fig. 5.

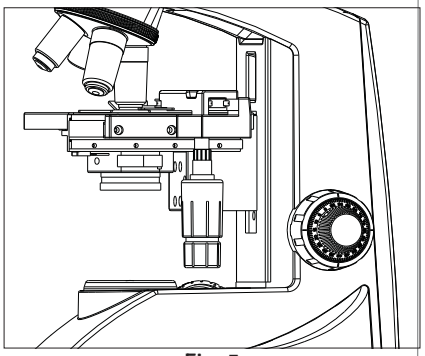
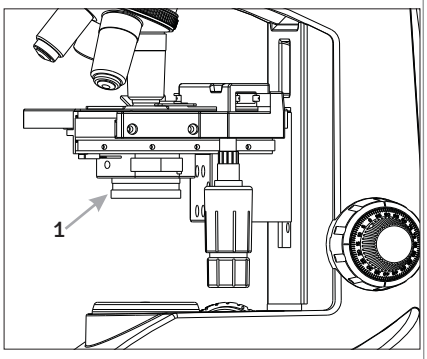


Fig. 5

OPERATING INSTRUCTIONS

- Turn on the illumination system of the microscope.
- Place the specimen on the glass plate of the analyzer.
- For the initial setup, align the fiducial line of the polarizer with 0 on the scale. In this position the analyzer and polarizer give the brightest field; 90° to the left or right of this position gives the darkest field.
- Set the required angle of the incident polarized light with the scale on the polarizer while viewing the image through the eyepieces.
- Rotate the polarizer slowly to reach the required position.



CARE AND MAINTENANCE

- Loose particles can be removed from the surfaces of the analyzer and polarizer by wiping gently with lens tissue moistened with acetone or methanol.
- Avoid leaving fingerprints on the surfaces of the analyzer and polarizer.
- When the polarizing kit will not be used for a long time, store it in its original packaging.

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