Gemstone Polariscope
Dual Light

USER GUIDE

HAD®

HAD Polariscope Parts List

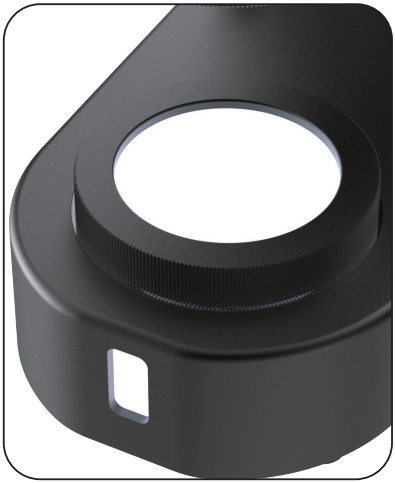
General Information

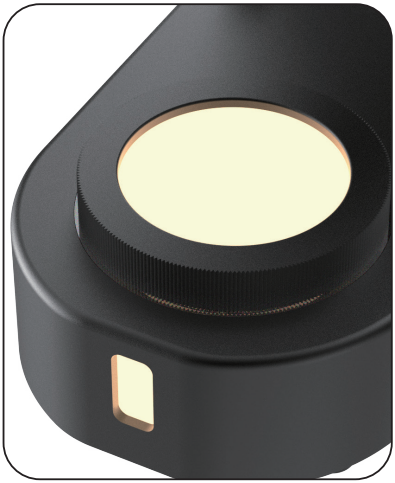
A gemstone polariscope is a commonly used method for testing gemstones. It uses a polariscope to detect the rotation and birefringence of light in a material, thereby determining the properties and authenticity of the gemstone. It is mainly used to distinguish between homogeneous and non-homogeneous gemstones and crystalline (cryptocrystalline or microcrystalline) aggregates, and to identify abnormal birefringence in gemstones. It can be used to determine the axiality of gemstones and to check their pleochroism. In specific situations, with the help of a conoscope, the interference pattern of the gemstone can be observed to determine its axiality.

Dual Light Source Switching

Yellow light has good penetration and can reveal the internal cracks and impurities of jade

White light has good color rendering, and can help the user see the true color of the gemstone.





Setting Up HAD Polariscope

1. Plug in the instrument power supply
2. Turn the instrument on by pressing the power button
3. Choose the color of the bottom light and adjust the brightness
4. Place the gemstone on the center of the polariscope stage
5. Adjust the polarizer and the analyzer to their crossed position (perpendicular to each other) by rotating them.
6. Rotate the gemstone on the stage while observing it through the polariscope. Notice any changes in color or patterns.
7. "Conoscope" for gem table on the top of Polariscope, helps determine uniaxial and biaxial optic figures in doubly refractive gemstones
8. Positioning the magnifier atop the analyzer for enhanced observation of the phenomenon

Product Parameters

Specifications	
Item Code	YQ-612
Voltage	110V-220V
Package Size	15*15*9.5cm
Weight	0.8KG