

ATTACHMENT 'A'

Petrographic Microscope

Quantity 18

Designed for student use in petrology/mineralogy/petrography courses at upper division undergraduate and graduate level

- **Must** include stand with rotatable nosepiece and positions for at least 4 centerable objectives
- **Must** include LED illuminator – transmitted polarized light
- **Must** include Power supply
- **Must** include Circular rotating stage with graduations and brake
- **Must** include Objective centering tools for each microscope
- **Must** include 3 objectives for each scope – one 4 or 5X, one 10X, and one 40 or 63X (must be appropriate lens for imaging through coverslips)
- **Must** include upper and lower polarizers
- **Preferable:** Non-removable upper polarizer (analyzer)
- **Must** include add on centerable condenser lens
- **Must** include trinocular Pol Tube with eyepiece locking mechanism, and orientation key for the crosshair reticle eyepiece
- **Must** include focusing eyepiece (optimal 10X), Crosshair reticle, and key for orientation
- **Must** include analyzer/Bertrand Lens Module – enables conoscopy
- **Must** include 530nm Lambda retardation plate compensator
- **Must** include either a built in camera system or an appropriate Cmount adapter
- HD Microscope Camera with Software
 - Digital color camera capable of stand-alone image capture and storage operation (without PC)
 - Capable of high definition live images at 1920x1080p resolution
 - Capable of camera interface control via computer or via remote control
 - Capable of capturing JPGs or MP4s directly to integrated memory (e.g. thumb stick or SD card) or to PC using USB2 (or equivalent) connection, compatible with PCs and notebooks
- Microscope **must** include all required cables and software
- **Must** be compatible with all current operating systems for PC or Mac (e.g support OS: Win7/Win8/Win10/MacOSX)
- **Preference** for systems that support Mac without Windows partition
- Coarse focusing mechanisms **must** be metal on metal gears.
- **Preferable:** metal on metal fine focusing gears
- **Must** include installation of equipment and/or software and training
- **Must** Include shipping to customer site for 18 units plus cameras and software
- **Must** include dust covers
- **Must** include memory media appropriate for camera (e.g. SD cards)
- **Must** include warranty (at least 2 years on mechanical; one year on electronics)