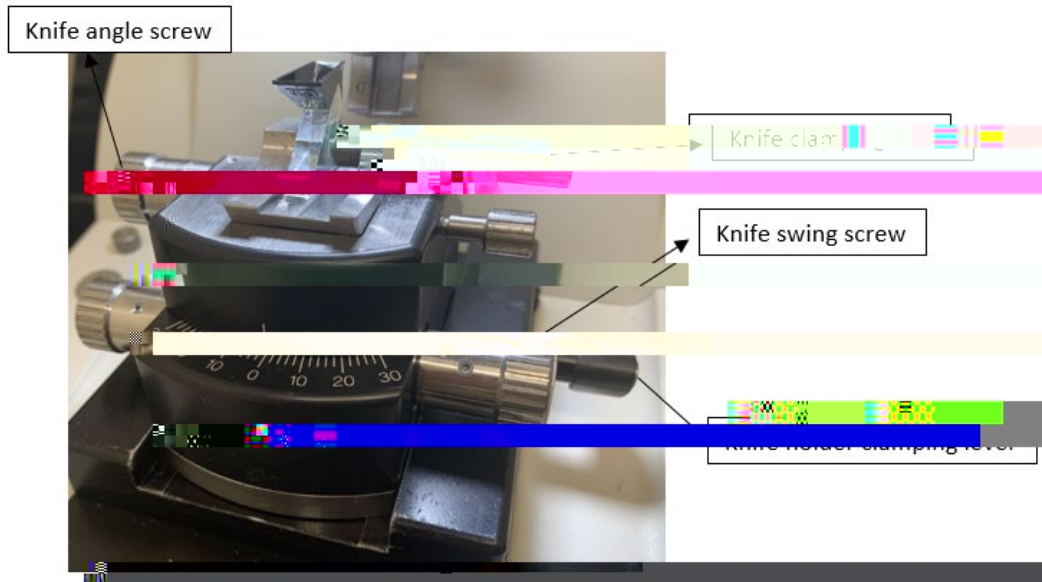# Leica EM UC6 operation instruction

1. Put a trimmed block into the sample holder and clamp securely.

2. Secure the sample holder in the specimen arm by tightening the sample holder tighten screw. Adjusting the sample holder tilting angle to 0° by sample holder tilting screw.
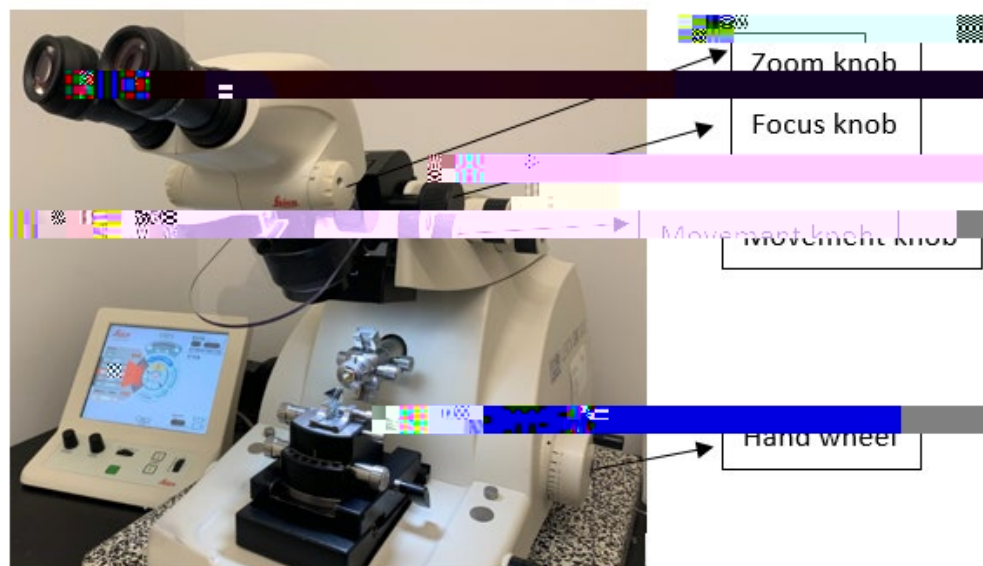
3. Turn on microtome (left side switch), press reset button on the screen

    to retract the sample holder all the way back.

4. Put a glass or diamond b(o)-6.(a)-3.6 n

Knife angle screw

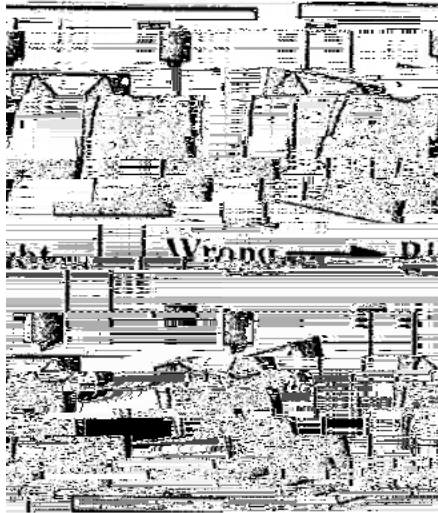Knife clamp

Knife swing screw

Knife holder clamping lever

7. Look through the microtome microscope and inject water into the knife boat, adjust the water level until a mirror like area on the water surface can be seen behind the knife edge and the knife edge is completely wet.

Zoom knob

Focus knob

Movement knob

Hand wheel

8. Use the hand wheel (on the right side) to bring the specimen to the same level as the knife edge.

9. Carefully move the knife forward until it is within about 1mm of the specimen bloc

3) Rocking the sample up and down by the hand wheel to observe the knife edge reflection on the block face. Swing knife left or right by the knife swing screw to make the knife edge parallel to the block face (back off knife a little if needed before adjusting to avoid pump the sample block face).

4) Tilt the sample block face up or down by the sample holder tilting screw to make the knife edge reflection on the top of the block face is equal to which on the bottom of the block face. After all the adjustments, the knife edge reflection is even side to side and stays the same width as the block is passed by the knife edge.

11. Slowly move forward the knife (using N-S wheel) until the knife edge reflection is just disappear.

12. Set cutting window: turn the hand wheel so the sample is on the forward cutting stroke. Move the lower edge of the block face by the hand wheel to about 1mm above the knife edge. Push the button START. Then move the block face down until the top edge of the block face is just below the knife edge. Push the button END.

13. To cut sections, If cutting semithin sections, select cut setting   ; If cutting ultrathin sections, select   or   .

14.

cutting 4-10 sections. Use eyelash tool to move the last section away from