

## DEKTAK Operation Procedure

1. Turn on Burle monitor. The button is located at the bottom-right corner of the monitor.
2. Turn on the light for DEKTAK microscope (rotate small knob located at the bottom right side of the equipment. You can adjust the height of the probe/objective by twisting the big knob at the bottom right side of the equipment).
3. Open the door, put your sample onto the stage. Rotate to locate it underneath the probe/objective. Your pattern is shown on the monitor screen. Adjust the position of your sample using the three wheels underneath the stage. You can push “▲ ▼” button to move the probe to your sample to make sure your pattern is right underneath the probe. If you push “▲ ▼” twice, the probe will move away from your sample. Make sure not to move the stage while the probe is touching your sample. Close the door.
4. Push the “PRGM” button to program the scanning recipe. Push “▲” or “▼” button and move the cursor to item you want to modify. Push “◀” or “▶” button and move the cursor to your choice. Push “ENTR” button to make your selection.
5. After programming. Push “SCAN” button and you will see the probe touch and move along your sample surface.
6. Generally the profile you get is tilting. You need to level it before measure the step. Push the blue “REF” button, select “R” cursor, push “◀” or “▶” button and move the “R” cursor to a place you want to level. Push the blue “MEAS” button, select “M” cursor, push “◀” or “▶” button and move the “M” cursor to a place at the same level as “R” cursor. Push “LVL” button and you will have your profile leveled basing on “R” and “M” position.
7. You can select and move “R” and “M” cursor to wherever you want at your profile. The two numbers on the top right corner of the screen tell you the step and distance between two points.
8. Push the “RA” button, and you will get the roughness between “R” and “W” at the bottom right corner of the screen.
9. After done, open the door and take your sample out. Close door. Turn off monitor. And turn off microscope light.