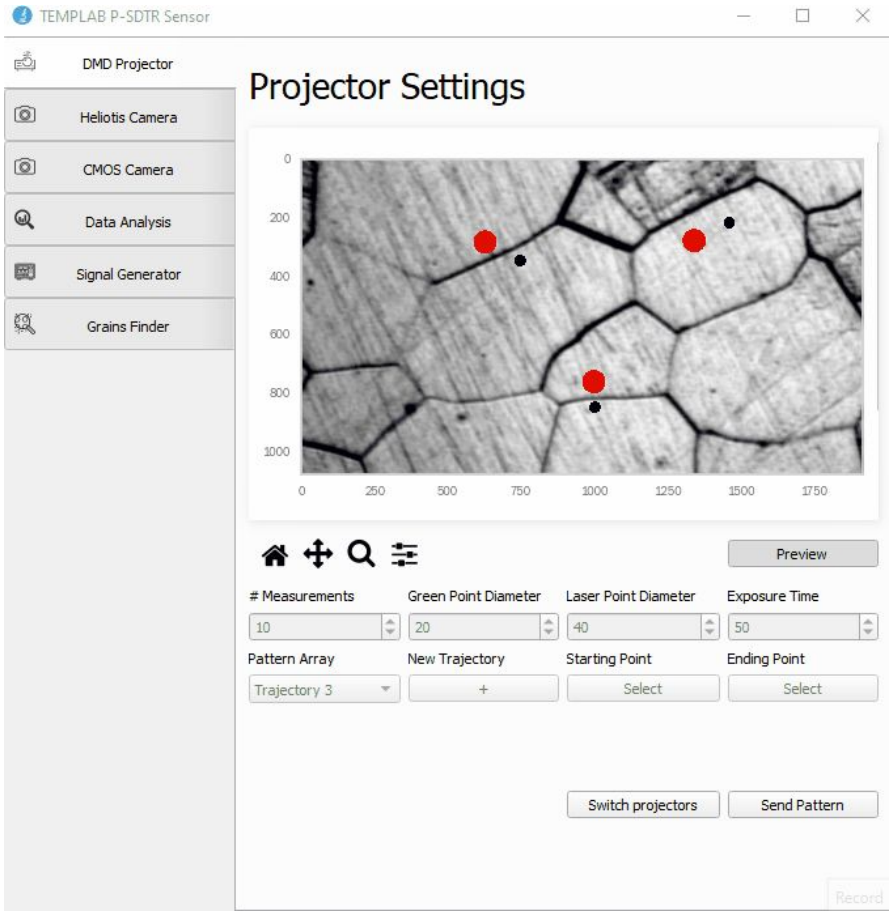
P-SDTR Sensor GUI v1

User Guide

Features

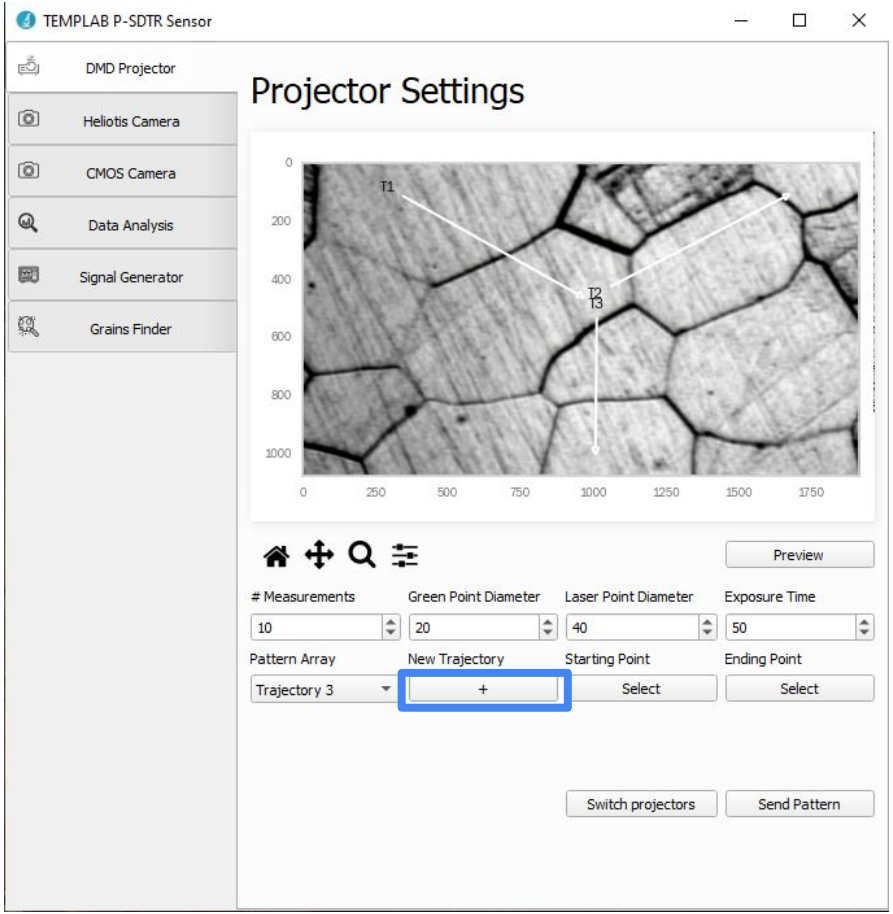
- RGB and laser projectors
- Heliotis Camera
- CMOS Camera
- Data Analysis
- Signal Generator
- Grains Finder



RGB and Laser Projectors

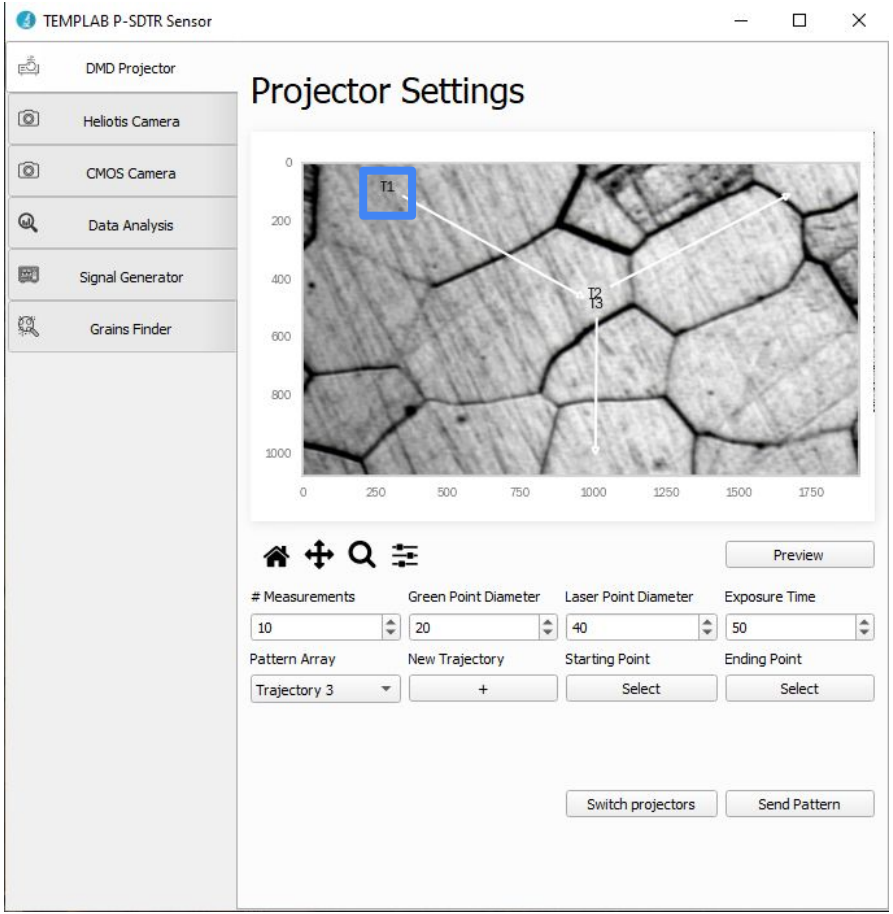
The user configures a set of trajectories to be projected on the sample.

For each trajectory, the RGB projector will display a sequence of equally spaced points all across, and the laser projector will display a stationary point at the middle.



RGB and Laser Projectors

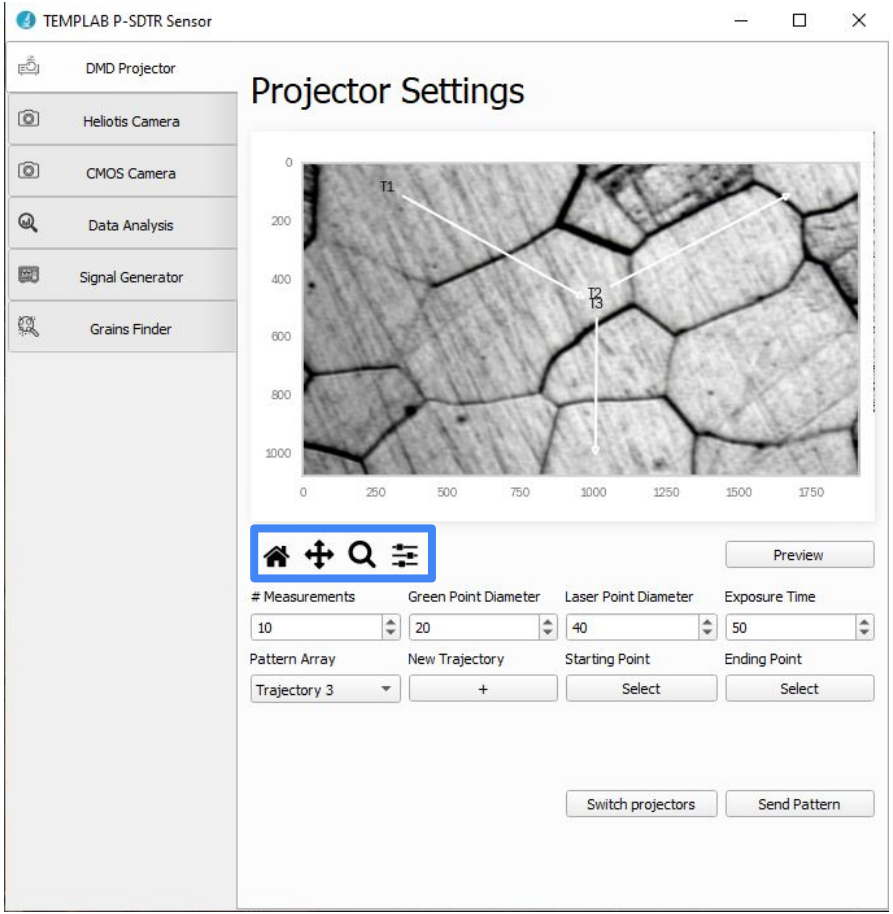
Add a new trajectory with the “+” button.



RGB and Laser Projectors

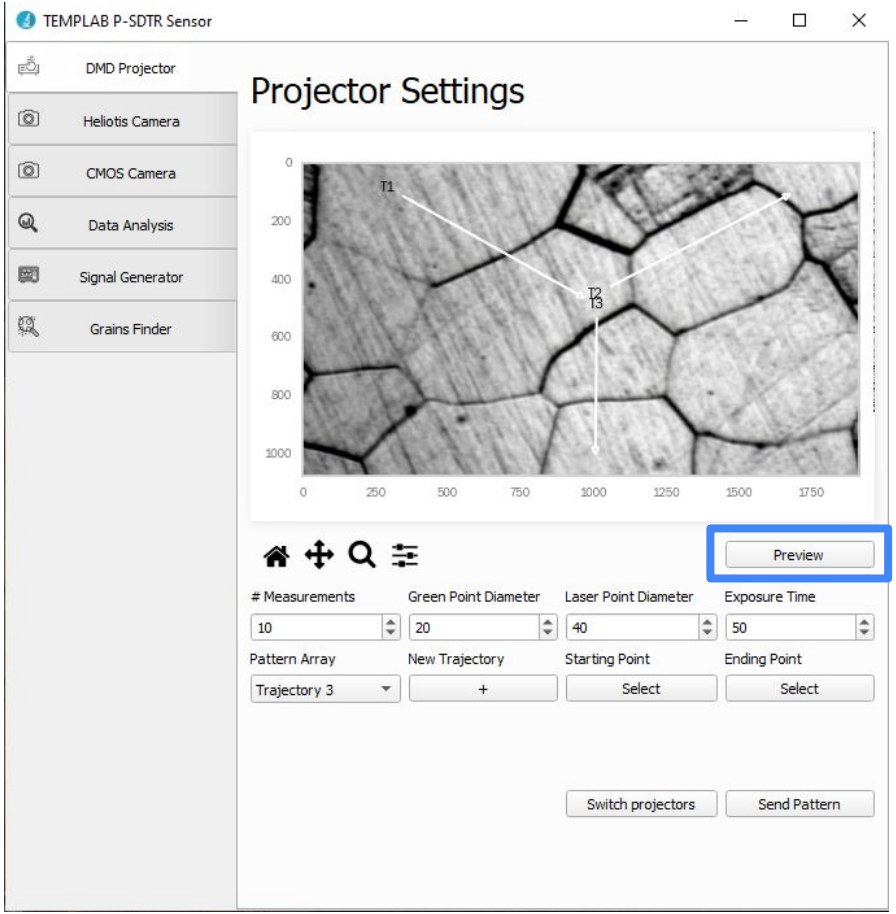
Select the starting and ending points on the plot.

You can edit those later for any trajectory using the “Pattern Array” dropdown and the “Select” buttons.



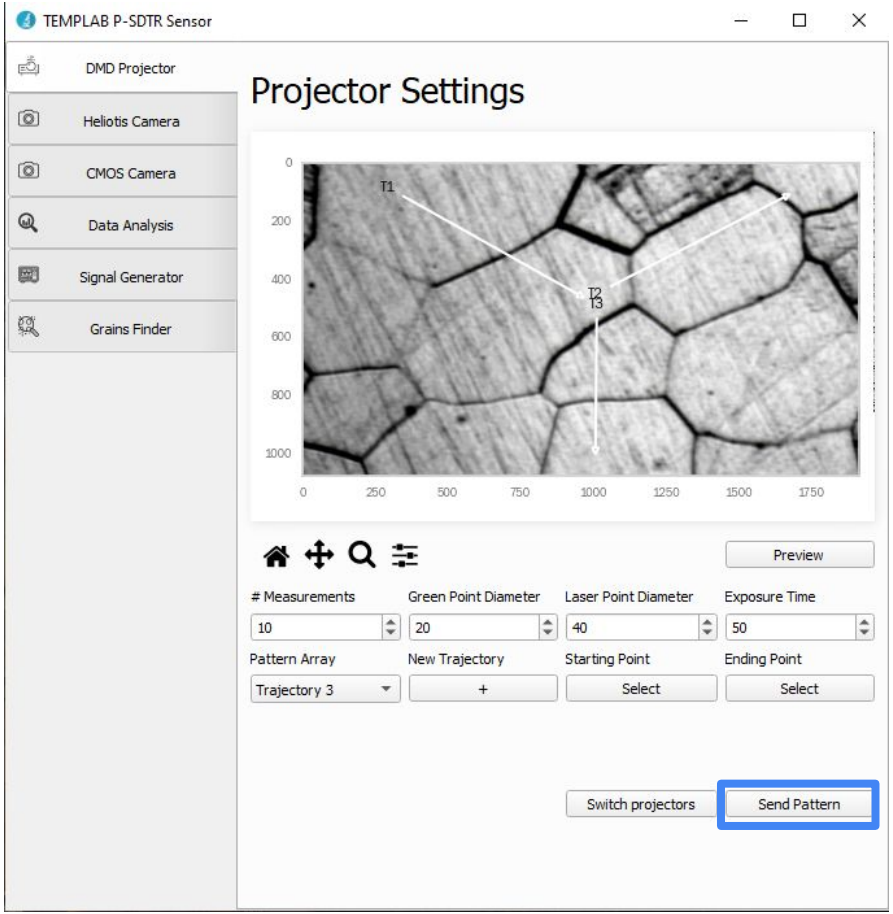
RGB and Laser Projectors

You can interact with the plot (zoom, pan, etc) using the navigation bar.



RGB and Laser Projectors

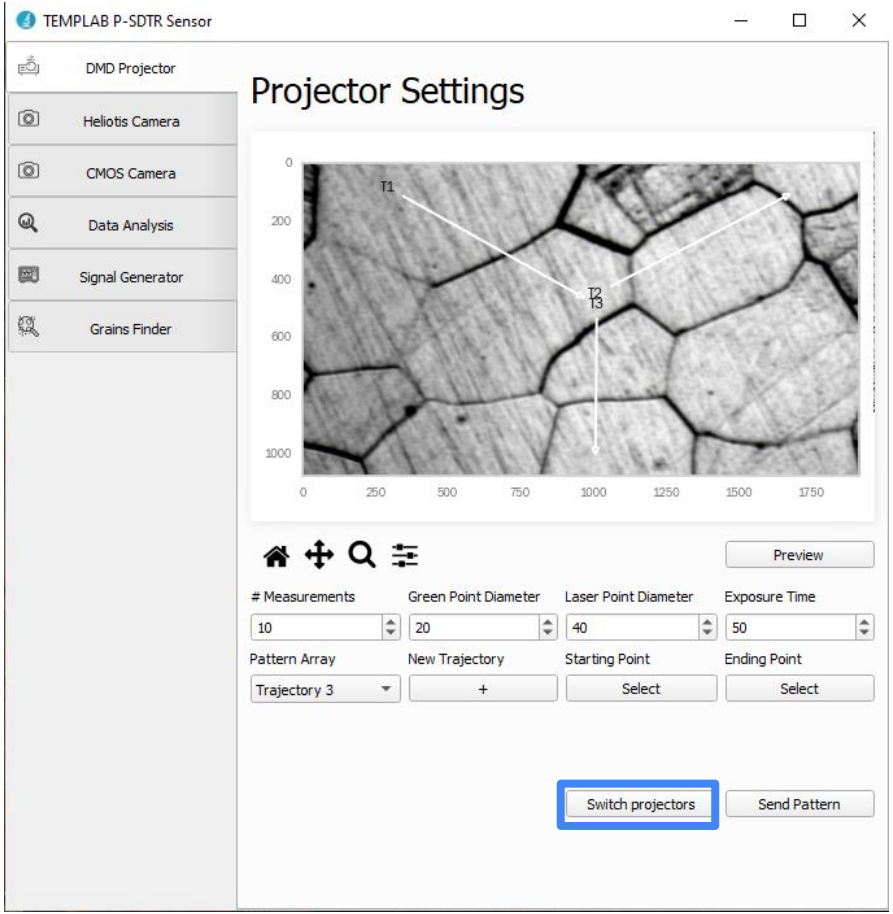
Click “Preview” to double-check.



RGB and Laser Projectors

With the devices connected, click “Send Pattern” to set up the sequence in the projectors.

If the projectors are not connected or recognized by the device, a message will appear on the Python terminal.



RGB and Laser Projectors

If the order of the projectors is incorrect (laser projector showing the rgb pattern and vice versa), click on “Switch projectors” and send the pattern again.