SURFSCAN 6200 Operating Instructions for 6-Inch Wafers

Important Guidelines

- **Wafer Thickness: Do not use wafers thicker than 1 mm.**
- **Log all scans and issues in the logbook.**
- **Always log off after completing your session.**

Procedure

1. Login Instructions

- **Access Code: fab (new password from 2025).**
- **If the keyboard isn't functional, use the virtual keyboard on the monitor.**
- **Double-click the SCAN icon to launch the software.**

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2. Loading a Recipe

1. **Navigate to Recipe > Load (upper-left corner).**
2. **Select one of the standard recipes for 6-inch wafers:**
   - **STD_UCSB_6inch_G4: For thicknesses 0.16–1.6 µm.**
   - **STD_UCSB_6inch_G2: For thicknesses 1.6–28 µm.**
3. **Click OK. The recipe name will appear at the top of the screen.**

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3. Customizing a Recipe

1. **Select Recipe > Save as and name the recipe (e.g., your name or company name).**
2. **Go to Recipe > View/Modify to adjust parameters:**
   - **Wafer diameter**
   - **Edge exclusion**
   - **Gain**
   - **Threshold**
3. **Under Bin Split, click Default Bin to apply changes.**
4. **Save the updated recipe.**

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4. Load Wafers into the Cassette

1. **Use the white cassette for 6-inch wafers.**
2. **Load wafers with the face up; the major flat can face either direction.**
3. **Secure the cassette in the right indexer (specific for 6-inch wafers).**
4. **On the monitor, select CASS (Cassette) and wait for the tool to detect the wafers.**

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5. Start Scanning

To Scan a Single Wafer:

- **Select the desired wafer from the monitor.**
- **Click START (upper menu bar).**
- **Wait for the scan to finish and record the results.**

To Scan Multiple Wafers:

- **Select AUTO mode.**
- **Click START to begin scanning all wafers in the cassette.**

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6. Completion

1. **Once the scan is complete:**
   - **Press ENTER on the small laptop to save the scan as a photo.**
   - **Location: Desktop/Local Disk(C)/Users/Public/Public Documentation.**
   - **Photos can be accessed/downloaded via the Nanofab server.**
   - **Note: Full data-saving functionality will be available in January 2025.**
2. **Click HOME, select RECIPE/Exit, and log off.**

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7. Log Book

- **Ensure the cassette is properly seated in the right indexer.**
- **Always log off after completing your session.**