

# SURFSCAN 6200 Operating Instructions for 8-Inch Wafers

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## Important Guidelines

- **Wafer Thickness: Do not use wafers thicker than 1 mm.**
  - **Always log off after completing your session.**
  - **Log all scans and issues in the logbook after use.**
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## 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 8-inch wafers:**
    - **STD\_UCSB\_8INCH\_G2 (1.6–28  $\mu\text{m}$ ).**
    - **STD\_UCSB\_8INCH\_G4 (0.16–1.6  $\mu\text{m}$ ).**
  3. **Do not make any changes in the recipe.**
  4. **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. **Select Recipe > View/Modify to adjust the following parameters:**
  - **Wafer diameter**
  - **Edge exclusion**
  - **Gain**
  - **Threshold**
  - **Indexer**
3. **Under Bin Split, click Default Bin to apply changes.**
4. **Save the updated recipe.**

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#### 4. Loading Wafers

1. Use the black cassette for 8-inch wafers.
  2. Load the wafers with the face up, and the major flat away from you.
  3. Place the cassette in the left indexer (specific for 8-inch wafers).
  4. Ensure the cassette is seated properly.
  5. On the monitor, select CASS (Cassette) and wait for the tool to detect the wafers.
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#### 5. Scanning Wafers

##### 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. After Scanning

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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#### Reminders

- Always ensure the cassette is seated properly in the left indexer.
- Log off after completing your session.