

# SURFSCAN 6200 SOP for 4-Inch Wafers

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## 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.**
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## Procedure

### 1. Login Instructions

- Use the password: **fab (new password)**
  - If the keyboard isn't working, use the virtual keyboard on the monitor.
  - Double-click the SCAN icon.
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### 3. Loading a Recipe

1. Click **Recipe > Load**.
  2. Select a standard recipe for 4-inch wafers:
    - UCSB GAIN4 0.16-1.6 (for 0.16-1.6  $\mu\text{m}$ ).
    - UCSB GAIN2 1.6-28 (for 1.6-28  $\mu\text{m}$ ).
  3. Click **OK**. The recipe name will appear at the top.
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### 4. Modify Recipe

1. Select **Recipe > Save as**, and rename it (e.g., your name or company name).
  2. Go to **Recipe/View/Modify** to adjust parameters:
    - Wafer diameter, edge exclusion, gain, threshold, indexer, etc.
  3. Under **Bin Split**, click **Default Bin** to apply changes.
  4. Save the modifications.
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## 5. Load Wafers into the Cassette

1. Use the white cassette for 4-inch wafers (right indexer).
  2. Load wafers face up, with the major flat away from you.
  3. Place the cassette properly in the right indexer.
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## 6. Start Scanning

1. On the monitor, select CASS (Cassette) and wait for the tool to detect wafers.
  2. Choose one of the following:
    - Single Wafer: Select the wafer and click START (upper bar).
    - Multiple Wafers: Select AUTO, then click START.
  3. Record the scan results.
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## 7. Completion

1. Once scanning 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, then select RECIPE/Exit, and log off.
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## 8. Log Book

- Record details of your scan and any issues in the Log Book.