1.0 UI

The UI as shown in Figure 1.

The config page is divided into 7 areas, which are described as follows:

- **A**: Run/Stop button
- **B**: Gesture mode/Thumb mode/Cursor mode Buttons
- **C**: Config for Register configuration
- **D**: Real image output
- **E**: Gesture result
- **F**: “Click” to enable/disable Gesture function selection

The operation procedures as follow:
1. Select the gesture mode, the thumb mode or the cursor mode in B-box.
2. Modify register setting in C-box if applicable
3. Run to start in A-box
4. Perform Gesture within sensor FOV.
5. Output detail Display in D, E Box
6. Stop to end

1.1 Gesture Mode

Click Gesture icon to run Gesture mode (mode 5)
The mode 5 support 7 gesture types as below table

<table>
<thead>
<tr>
<th>Mode</th>
<th>Default Connection</th>
<th>Gesture Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Gesture Mode (Default)</td>
<td>Static, Push, Swipe, Rotate, Tap (IS_SELECT flag = 1), Pinch (IS_SELECT flag = 1), Grab (IS_SELECT flag = 1)</td>
</tr>
</tbody>
</table>

- Static Finger

When N-Finger (N=0~5) in front of sensor, the Demo AP will show result as below

- Push
When N-Finger (N=1~5) + Push, the Demo AP will show result as below

- **Swipe**
### PixArt Imaging Inc.

#### Multi-Object Gesture demo AP

<table>
<thead>
<tr>
<th>Gesture Verification</th>
<th>Static</th>
<th>Push</th>
<th>Swipe</th>
<th>Navigation</th>
<th>IsSelect</th>
<th>Rotate</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td>Left</td>
<td>Tap</td>
<td>0</td>
<td>CCW</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>Right</td>
<td>Grab</td>
<td>0</td>
<td>CW</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td></td>
<td>Pinch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Rotate

- **Static**: 0
- **Push**: 1
- **Swipe**: Left, Right
- **Navigation**: Tap, Grab, Pinch
- **IsSelect**: 0
- **Rotate**: CCW
- **Unknown**: -
- **Tap**

![Tap gesture example](image)

(IS_SELECT=1)

- **Pinch**

![Pinch gesture example](image)

(IS_SELECT=1)

- **Grab**

![Grab gesture example](image)

(IS_SELECT=1)
1.2 **Thumb Mode**

Click Thumb icon to run Thumb mode (mode 2)

The mode 2 supports 2 gesture types as below table

<table>
<thead>
<tr>
<th>Mode</th>
<th>Default Connection</th>
<th>Gesture Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Thumb Mode</td>
<td>Thumb Up/Down</td>
</tr>
</tbody>
</table>

- **Thumb Up**
- Thumb Down
1.3 **Cursor Mode**

Click Cursor icon to run Cursor mode (mode 4)

The mode 4 supports 6 gesture types as below table

<table>
<thead>
<tr>
<th>Mode</th>
<th>Default Connection</th>
<th>Gesture Types</th>
</tr>
</thead>
</table>
| 4    | Cursor Mode        | Static Finger (same as mode 5)  
|      |                    | Push (same as mode 5)          |
|      |                    | Rotate (same as mode 5)        |
|      |                    | Tap                         |
|      |                    | Pinch                       |
|      |                    | Grab                        |

The Cursor mode is different with Gesture mode items

1. Remove Swipe mode
2. Output gesture event and coordinate directly
   - Tap

![Cursor Mode Diagram]

(IS_SELECT=1)
- Pinch

- Grab