

# **USER MANUAL**

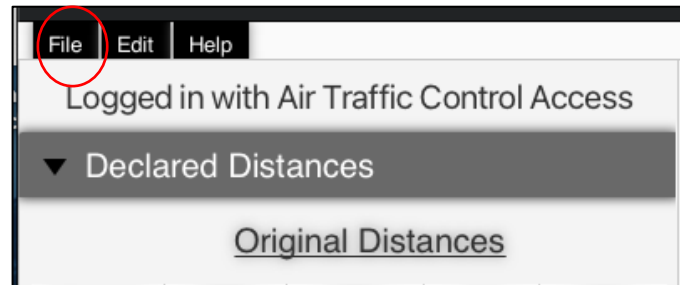
# TABLE OF CONTENTS

1. <u>How to navigate the Menu</u>	2
a. <u>Exporting Visualization</u>	2
b. <u>Colour Blind Mode</u>	2
2. <u>Viewing of Data/Values</u>	3
a. <u>Declared Distances</u>	3
b. <u>Calculation Breakdown</u>	3
c. <u>Exporting Calculations</u>	3
3. <u>Runway</u>	4
a. <u>Selecting Runway</u>	4
4. <u>Obstacle</u>	5
a. <u>Viewing obstacle data/values</u>	5
5. <u>Main Visualization</u>	6
a. <u>Side View</u>	6
b. <u>Top Down View</u>	7
c. <u>Zoom/Rotate</u>	8
d. <u>Compass view</u>	9

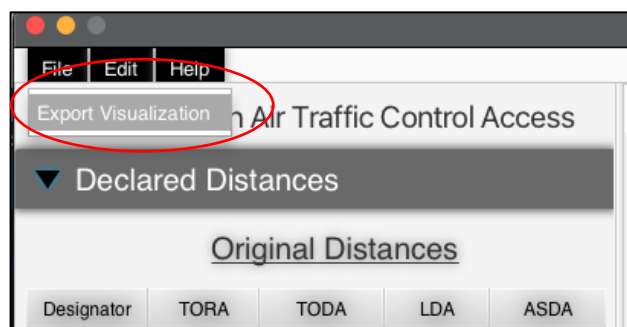
## 1. How to navigate the Menu

### a) Exporting visualization:

- i. Login as Air Traffic Controller.
- ii. Direct your view to the top left of the page.



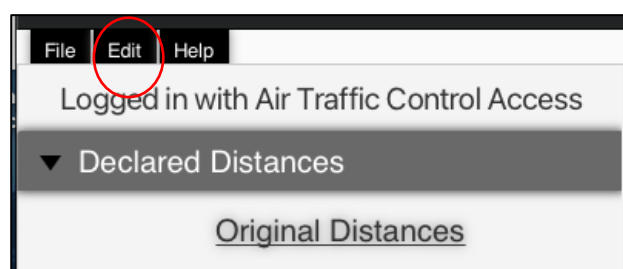
- iii. Click on the "File" button.



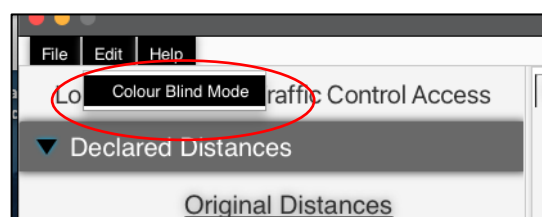
- iv. Here you can export visualization to different formats.

### b) Colour blind mode

- i. Locate your view to the top left of the page.



- ii. Click on "Edit".



- iii. Click on option "Colour Blind Mode" to activate.

## 2. Viewing of Data/Values

### a) Declared Distances:

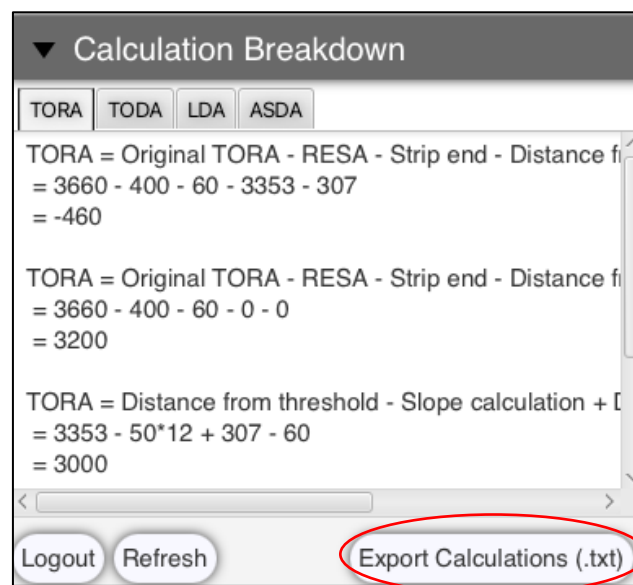
- i. Direct your view to the top left pane of the page titled “Declared Distances”.
- ii. Here you can see the values of the “Original Distances” as well as the “Recalculated Distances” for both the take off away and take off towards.
- iii. You can sort the values in order of descending/ascending simply by interacting with the small triangle next to the title of the table.

### b) Calculation Breakdown:

- i. Direct your view to the bottom left pane of the page titled “Calculation Breakdown”.
- ii. Here you can view the calculations and the formulas used to calculate the final values.
- iii. You can also switch between tabs of TORA, TODA, LDA, and ASDA simply by interacting/clicking on the menu above where the calculations are shown.

### c) Exporting Calculations

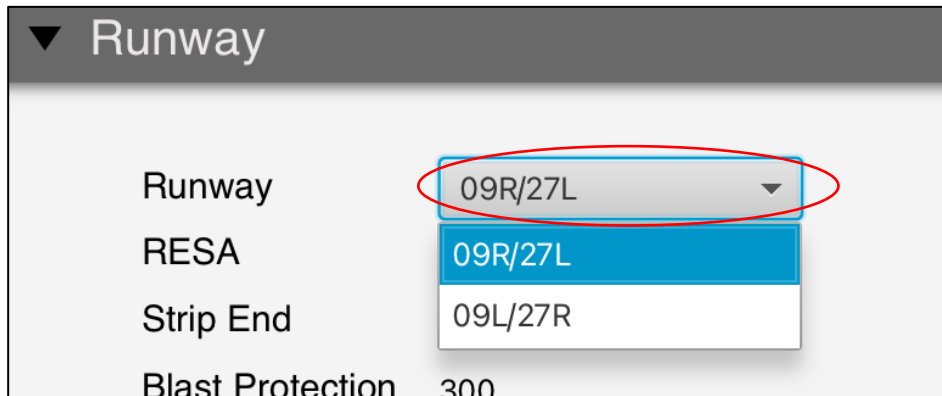
- i. Locate yourself to the bottom left of the screen right below the “Calculation Breakdown” Table.



- ii. If you wish to export the calculations to a text file, click on the button labelled “Export Calculations (.txt)”.

### 3. Runway

- a) Selecting Runway:
  - i. Navigate yourself to the top left pane of the page labelled “Runway”.
  - ii. Here you can select the desired runway simply by selecting from a list in a drop down box.



The screenshot shows a web interface with a dark grey header bar containing a downward-pointing triangle and the text "Runway". Below the header, there are four labels: "Runway", "RESA", "Strip End", and "Blast Protection". The "Runway" label is followed by a dropdown menu that is currently open, displaying two options: "09R/27L" (highlighted in blue) and "09L/27R". The "RESA" label is followed by a text input field containing "09R/27L". The "Strip End" label is followed by a text input field containing "09L/27R". The "Blast Protection" label is followed by a text input field containing "300".

- iii. Then you can view all the fixed data below the drop down box.
- iv. Here you can view the **DATA**.
- v. You are also able to sort the values in order of ascending/descending simply by interacting with the triangle next to the titles on the table itself.

## 4. Obstacle

- a) Viewing obstacle data/values:
  - i. Direct yourself to the bottom right pane of the page.
  - ii. Here you can view values such as the obstacle name, height, width, length as well as the distances.

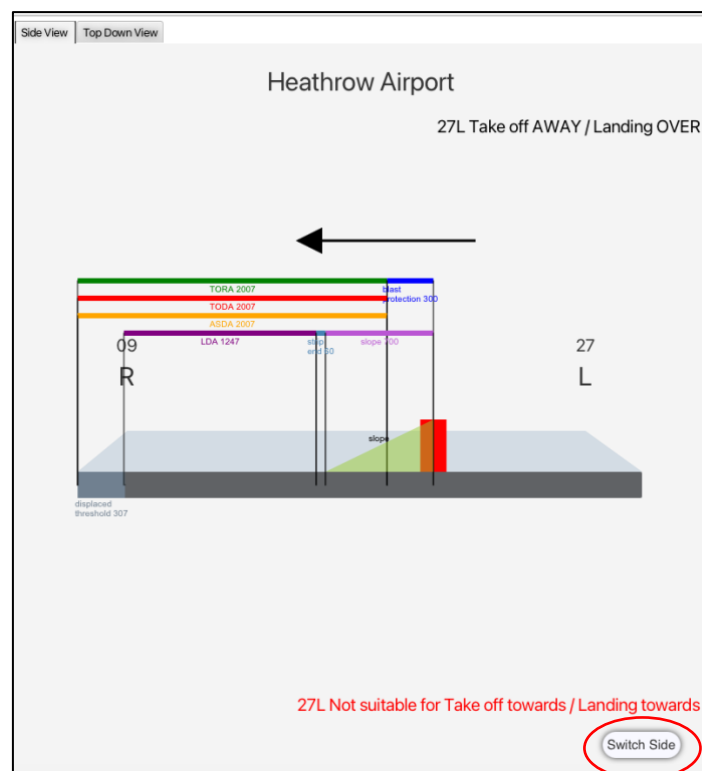
## 5. Main Visualization

a) Side View:

- i. Navigate yourself to the top of the middle pane on the page.



- ii. Select “Side View”.
- iii. Here you are able to see the selected runway as well as the direction it is facing from a side view.



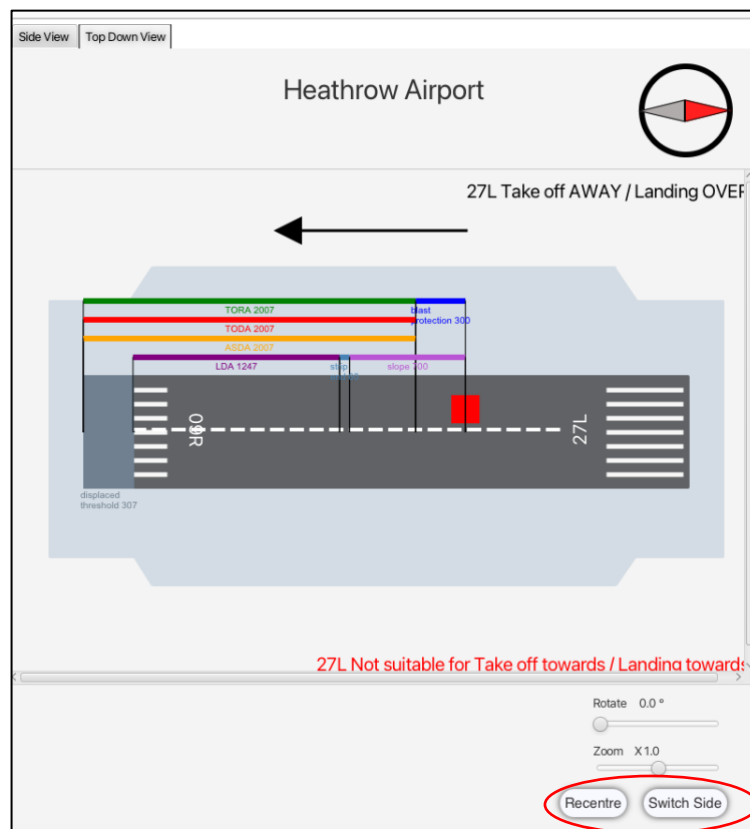
- iv. You can also change the view by clicking the “Switch Side” button at the bottom of the pane.

b) Top Down View:

- i. Navigate yourself to the top of the middle pane on the page.



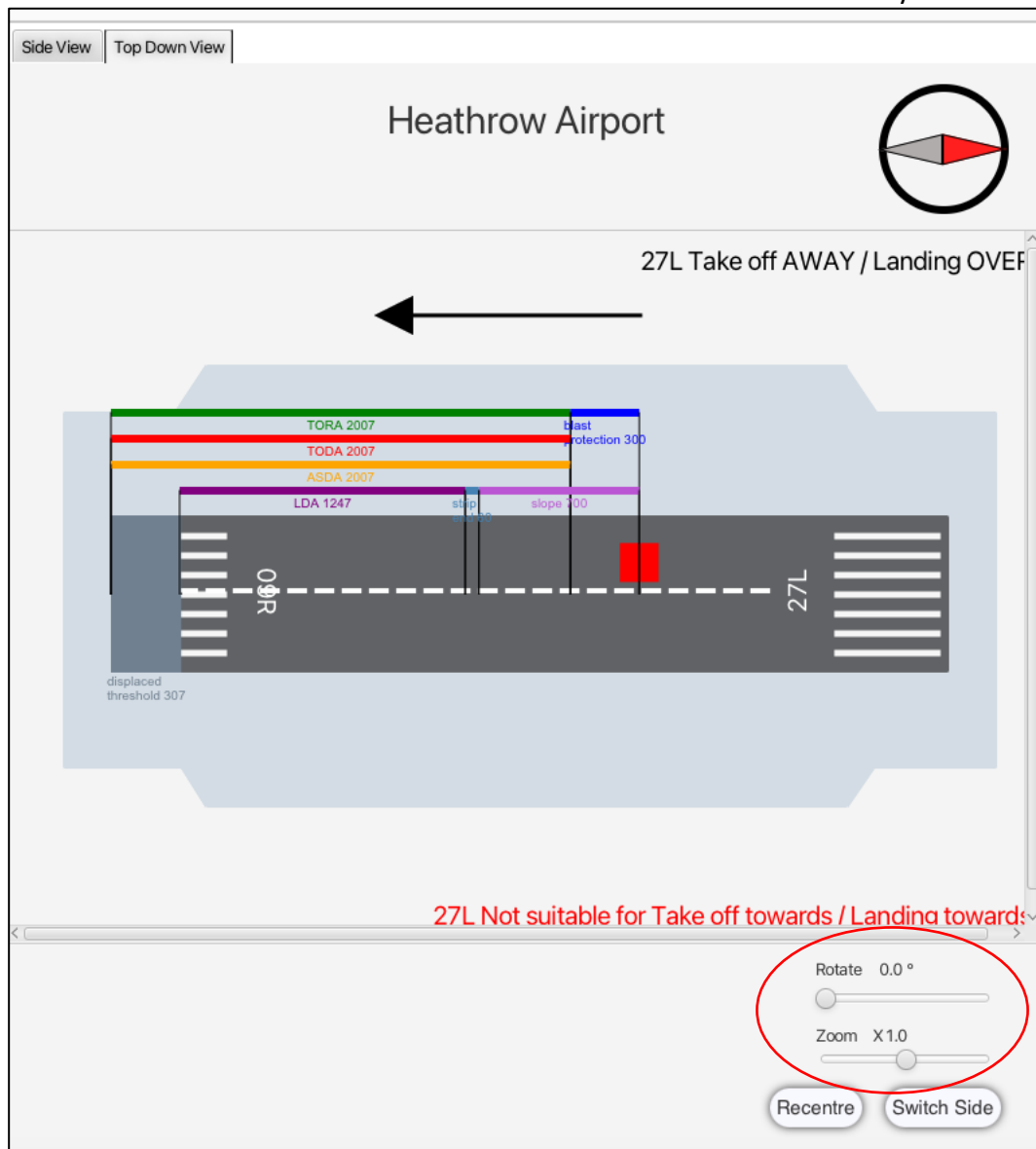
- ii. Select "Top View".
- iii. Now you are able to see the selected runway as well as the direction it is facing from a top down view.
- iv. You can also change the view by clicking the "Switch Side" button as well as recentre the whole visualization by clicking the "Recentre" button at the bottom of the pane.





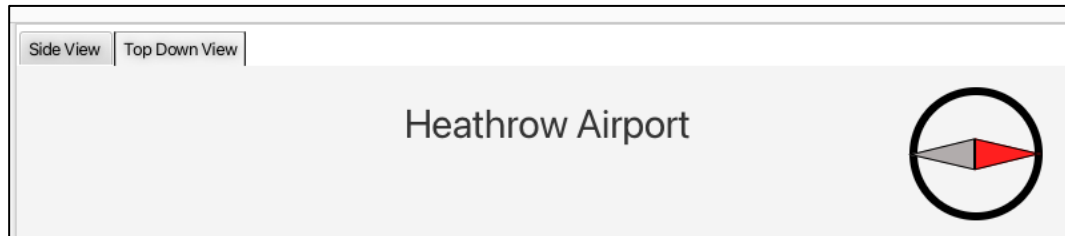
c) Zoom/Rotate

- i. Once you are in the top down View of the visualization, you are able to control the rotation and zoom level of the runway.



d) Compass view

- i. On the top down view tab of the visualization, there is a compass that tells the direction or angle in which it is relative to.
- ii. The compass rotates as you interact with the slider for the rotation of the whole visualization



- iii. In this case, the compass is relative to the runway.