

USER MANUAL

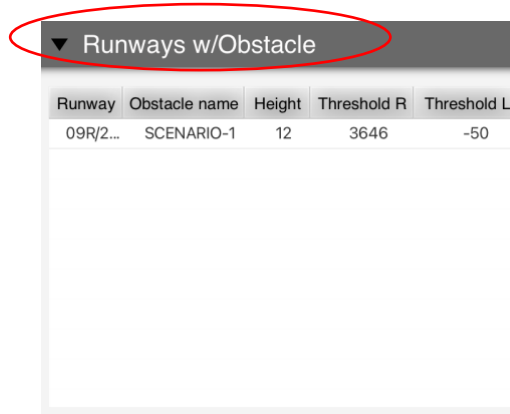
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1. Viewing of Data/Values

a) Runways with obstacle:

- i. Direct your view to the top left pane of the page titled Runway w/Obstacle.



| ▼ Runways w/Obstacle | | | | |
|----------------------|---------------|--------|-------------|-------------|
| Runway | Obstacle name | Height | Threshold R | Threshold L |
| 09R/2... | SCENARIO-1 | 12 | 3646 | -50 |

- ii. Here you can see values of the runways with obstacles.
- 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.



| Runway | Obstacle n... ▼ | Height | Threshold R | Threshold L |
|----------|-----------------|--------|-------------|-------------|
| 09R/2... | SCENARIO-1 | 12 | 3646 | -50 |

b) Preset Obstacles:

- iv. Navigate yourself to the bottom left pane of the page that is titled "Preset Obstacles" above the logout and refresh buttons.



| ▼ Preset Obstacles | | | |
|--------------------|--------|--------|-------|
| Name | Height | Length | Width |
| SCENARIO-1 | 12 | 10 | 15 |
| SCENARIO-2 | 25 | 13 | 18 |
| SCENARIO-3 | 15 | 6 | 10 |
| SCENARIO-4 | 20 | 25 | 17 |

- v. Here you can view the values/data of all the pre-set Obstacles that are already logged previously in the system.
- vi. You can also sort the values in order of descending/ascending simply by interacting with the small triangle next to the title of the table.

▼ Preset Obstacles

| Name | Height ▲ | Length | Width |
|------------|----------|--------|-------|
| SCENARIO-1 | 12 | 10 | 15 |
| SCENARIO-3 | 15 | 6 | 10 |
| SCENARIO-4 | 20 | 25 | 17 |
| SCENARIO-2 | 25 | 13 | 18 |

2. Runway

a) Selecting Runway:

- Navigate yourself to the top left pane of the page labelled "Runway".
- Here you can select the desired runway simply by selecting from a list in a drop down box.

▼ Runway

Runway 09R/27L ▼

RESA 09R/27L

Strip End 09L/27R

Blast Protection 300

- Then you can view all the fixed data below the drop down box.

| | |
|------------------|-----------|
| Runway | 09R/27L ▼ |
| RESA | 240 |
| Strip End | 60 |
| Blast Protection | 300 |
| ALS | 50 |
| TOCS | 50 |

| Designator | TORA | TODA | ASDA | LDA |
|------------|------|------|------|------|
| 09R | 3660 | 3660 | 3660 | 3353 |
| 27L | 3660 | 3660 | 3660 | 3660 |

- Here you can also view the values of TORA, TODA, ASDA, LDA.
- 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.

| Designator | TORA ▲ | TODA | ASDA | LDA |
|------------|--------|------|------|------|
| 09R | 3660 | 3660 | 3660 | 3353 |
| 27L | 3660 | 3660 | 3660 | 3660 |

3. Obstacle

a) Adding new Obstacle:

- i. Navigate yourself to the bottom right pane of the page where its titled "Obstacle".
- ii. Then you will be able to see two menu options.
- iii. Select "New Obstacle" and it will change to its respective page.

▼ Obstacle

New Obstacle | Preset Obstacle

Name

Height m

Length m

Width m

Distances

Threshold R m

Threshold L m

Centerline m

Direction

Add Reset

- iv. Here you can add the values of the obstacle you wish to add to the system as well as its systems.
- v. Once you have added the values and click on the "Add" button it will add the new obstacle to the list of preset obstacles and you'll be able to see it on the Preset Obstacle section of the page.
- vi. Then you will have to go to the Preset Obstacle section to add the obstacle onto the runway visualization.

b) Deleting Obstacles from Runways with Obstacle table

- vii. Navigate yourself to table labelled "Runways with Obstacles"

▼ Runways w/Obstacle

| Runway | Obstacle name | Height | Threshold R | Threshold L |
|---------|---------------|--------|-------------|-------------|
| 09R/27L | aplesbottom | 12 | 3353 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Delete Selected Obstacle

- viii. Click on the runway with the obstacle you wish to remove

- ix. Once row selected is highlighted click on “Delete Selected Obstacle” button

- c) Selecting a preset Obstacle to add to the runway visualization:
 - i. Navigate yourself to the bottom right pane of the page where its titled “Obstacle”.
 - ii. Then you will be able to see two menu options.
 - iii. Select “Preset Obstacle” and it will change to its respective page.

▼ Obstacle

New Obstacle | **Preset Obstacle**

Name: SCENARIO-2

Height: 25 m

Length: 13 m

Width: 18 m

Distances

Threshold R: m

Threshold L: m

Centerline: m

Direction: Select Direction

Add | Reset

- iv. Here you can select the obstacle you wish to add on the runway by interacting with the drop down box next to the “Name” text.

▼ Obstacle

New Obstacle | Preset Obstacle

Name: SCENARIO-2

Height: m

Length: m

Width: m

Distances

Threshold R: m

Threshold L: m

Centerline: m

Direction: Select Direction

Add | Reset

- v. Once you have selected the obstacle, you can then add the values for distances and select its direction.
- vi. After filling in all the values you can click on the “Add” button and it will be added to the runway visualization.

d) Editing preset obstacle values

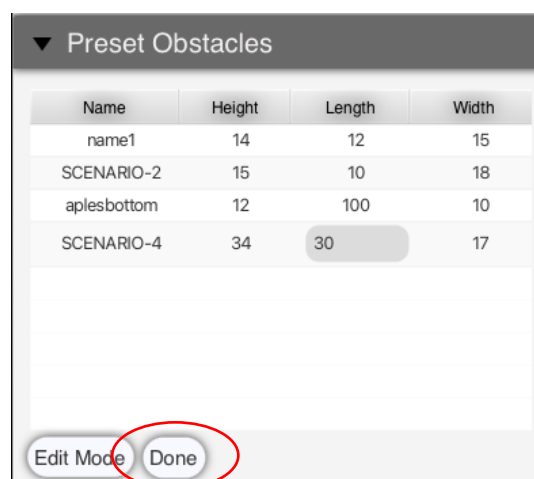
- i. Navigate yourself to the table labelled “Preset Obstacles”



The screenshot shows a table titled "Preset Obstacles" with a dropdown arrow on the left. The table has four columns: Name, Height, Length, and Width. It contains four rows of data. Below the table, there is an "Edit" button circled in red.

| Name | Height | Length | Width |
|-------------|--------|--------|-------|
| name1 | 14 | 12 | 15 |
| SCENARIO-2 | 15 | 10 | 18 |
| aplesbottom | 12 | 100 | 10 |
| SCENARIO-4 | 34 | 30 | 17 |

- ii. Click on “Edit” Button
- iii. Once u are in “Edit Mode”, you are able to edit the values of the obstacles
- iv. When completed click on “Done” button to exit Edit Mode



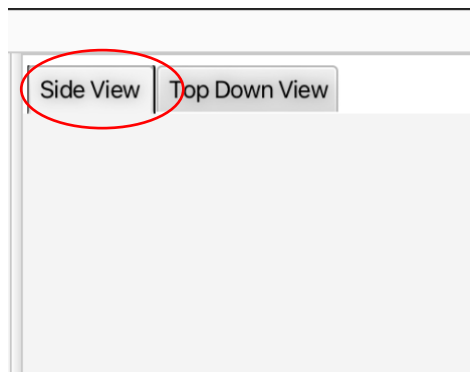
The screenshot shows the same "Preset Obstacles" table, but now it is in "Edit Mode". The "Length" value for "SCENARIO-4" is highlighted with a grey background. Below the table, there are two buttons: "Edit Mode" and "Done". The "Done" button is circled in red.

| Name | Height | Length | Width |
|-------------|--------|--------|-------|
| name1 | 14 | 12 | 15 |
| SCENARIO-2 | 15 | 10 | 18 |
| aplesbottom | 12 | 100 | 10 |
| SCENARIO-4 | 34 | 30 | 17 |

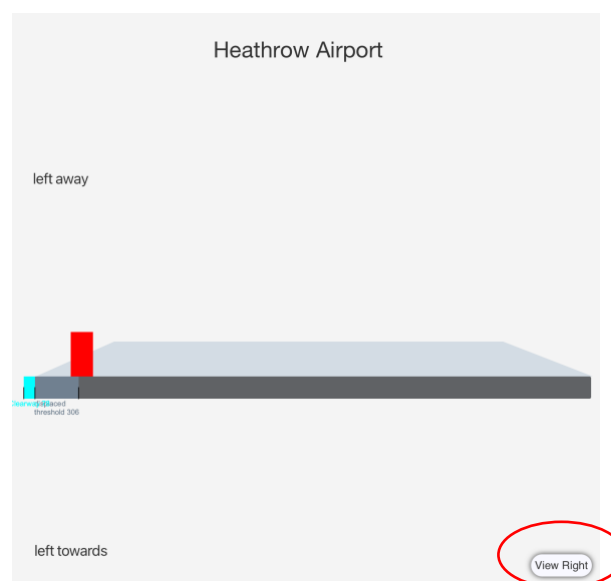
4. Main Visualization

a) Side View:

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

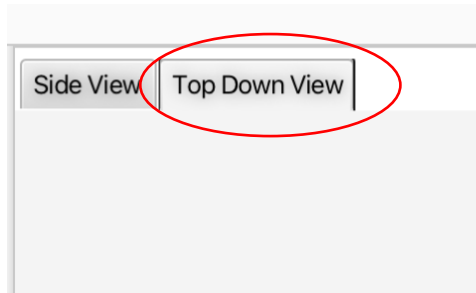


- vi. Select "Side View".
- vii. Here you are able to see the selected runway as well as the direction it is facing from a side view.
- viii. You can also change the view by clicking the "View Right" button at the bottom of the pane.



b) Top Down View:

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



- ii. Select “Top Down 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 “View Right” button at the bottom of the pane.

