



CA400 Airport Assistant User Manual

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Abstract:

Airport Assistant is an Android Application to help users, primarily those who suffer from anxiety, with dealing with passing through an airport. According to travelweekly.co.uk a study conducted by CPP found that one third of people find a working week to be less stressful than taking a flight and a quarter say it would be less stressful to move house than to take a flight. The purpose of this application is to take the stress out of air travel and make it more accessible to people who avoid travelling due to fear of the panic it will cause. Airport Assistant works by, instead of overloading users with information about the airport, bringing them through the process step by step, completing checks, giving advice and providing important information. It is almost like someone holding the user's hand and being their assistant throughout the journey.

The primary feature of the application is the AR (Augmented Reality) functionality for measuring luggage sizes. This will help ease the worries of users who are concerned that their hand luggage may not meet the requirements of their airline before they leave home. Similarly, features

such as security tips and walk times to gates will help make the entire process less stressful.

0. Table of Contents

Installation	3
Login	3
Logout	3
Upload Journey	3
Check-In Weight	3
Confirm Journey	4
AR	4
Directions to Airport	5
Check-In	5
Security	6
Duty Free	6
Directions to Gate	6
Inflight Information	6
Directions to Destination	7
Journey Complete	7

1. Installation

- To install the Airport Assistant application go to the Google Play Store and search for “Airport Assistant”
- Click on the Airport Assistant application
- Click the install button
- Once the application has installed click the open button on this page

2. Login

- When you open the Airport Assistant application you will be presented with the login screen
- Click on the “Google Sign in” button
- You will be presented with the Google Sign in page
- Select an account to sign in with and enter your Google password
- You are now signed into the Airport Assistant application

3. Logout

- Click the “Logout” button on the top left hand corner of the home screen
- The user is now logged out of Airport Assistant

4. Upload Journey

- To upload a journey, firstly click the “Upload Journey” button
- You will then be asked to enter your flight number
- Enter your flight number here
- Click the “Upload Journey” button
- If you do not enter a value here you will be prompted that a flight number is required

5. Check-In Weight

- If you are checking in luggage
 - i. Click yes on the “Will you be checking in hold luggage” option
 - ii. Enter the weight you have booked to check-in in the first field

- iii. Weigh your luggage
 - iv. Enter the actual weight of your baggage in the second field
 - v. Click the “Begin Journey” button
- If you are not checking in luggage
 - i. Click no on the “Will you be checking in hold luggage” option
 - ii. Click the “Begin Journey” button

6. Confirm Journey

- Your flight number, airline, destination and flight time will be displayed on this screen
- If these details are correct
 - i. Click the “Start Journey” button
- If these details are incorrect
 - i. Click the “Cancel” button

7. AR

AR Tutorial Screen

- You will initially be presented with the AR tutorial screen
- Here you will see an image depicting how to use the AR functionality of the application.
- Below this there are a number of steps which will be explained in further detail here
- If you wish to make use of this functionality
 - i. Click the “Progress to Bag Scan” button
- If you do not wish to use it
 - i. Click the “Skip this Phase” button

AR Camera Screen

- Once you open the AR screen you will be guided by a white hand on the screen.
 - i. Follow this hand and move your device slowly in a circular motion.
 - ii. Continue this until you can see the planes being mapped on your screen.

- Hold your device facing your bag you wish to measure.
- Once your device has picked up your bag, you will begin mapping points.
- Firstly, place the red point on the front left top corner of the suitcase. This will act as your base point.
- We will then place the remaining three points
- These can be placed in any order but must be placed on the
 - i. bottom left
 - ii. back left
 - iii. front top right corners of the bag as seen in the diagram.
- Once you are happy with how these points have been placed
 - i. Click the “Complete Scan” button
- If at any stage you wish to not continue with this process
 - i. Click the “Quit Scan” button

AR Results Screen

- Here you will be presented with your bag’s dimensions, your airline’s allowed dimensions and your AR pass/fail result
- If you wish to repeat this scan or scan a different bag
 - i. Click the “Repeat Scan” button
- If you are happy to continue
 - i. Click the “Complete Scan” button to progress with the application

8. Directions to Airport

- Firstly select whether you would like to receive directions for your mode of transport or not
 - i. If you select yes, a new field will become visible
 - ii. If you select no, this field will not become visible
- Then select the mode of transport you will be using
- If you do not select a mode of transport you will be prompted to enter a mode of transport.
- If you do not select whether you would like directions or not you will be prompted to select an option for this
- Click the “Progress to Next Stage” button

9. Check-In

- You will be presented with this screen if you are checking in luggage
- Your flight number, destination, airline and flight time will be displayed here
- Check the check-in board in the airport for this information
- Here you will find your check-in gate
- This page also informs you of your booked weight and the actual weight of your page
- Here you can be at ease knowing you are below your maximum weight
- There is also a link found here to Dublin Airport Authority's (DAA) website which provides helpful hints on checking in luggage
- To progress click the "Progress to Next Stage" button

10. Security

- At the top of the screen you will see how long the security wait time currently is
- Below this is a scroll menu with helpful tips for passing through security provided by DAA

11. Duty Free

- Here you are provided information on what amenities are near you
- You can see a map of Dublin Airport Duty Free with the below icons
- **ICON TABLE**
- Tap on an icon to be provided with information about the location

12. Directions to Gate

- Your flight number, airline, destination and flight time will be displayed on this screen
- You will be asked to input your gate number here
- This can be found on the departures boards within the airport
- Once you enter your gate number click the "Progress to Next Stage" button
- This screen will direct you to your gate

- Follow these directions until you arrive at your gate
- Then click the “Progress to Next Stage” button

13. Inflight Information

- On this screen you are provided with your flight destination and time
- Below you will see a url, this is a link to your airline’s onboard information
- Here you can find information relating to onboard meals, entertainment and shopping information

14. Directions to Destination

- When you have arrived at your destination airport you will be presented with this screen
- Firstly select whether you would like to receive directions for your mode of transport or not
 - i. If you select yes, a new field will become visible
 - ii. If you select no, this field will not become visible
- Select the mode of transport you will be using
- Then you enter the name of where you are travelling to
- Then select the mode of transport you will be using
- If you do not select a mode of transport you will be prompted to enter a mode of transport.
- If you do not select whether you would like directions or not you will be prompted to select an option for this
- Click the “Progress to Next Stage” button
- The next screen will direct you to your destination
- Follow these directions to your accommodation
- Once you have arrived click the “Journey Complete” button

15. Journey Complete

- You will receive a pop up to let you know that the journey is now complete
- You will then progress to the home page
- Congrats you have completed your journey