CityViewAR User’s Guide

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1. How to install the CityViewAR app

- Search for “CityViewAR” on the Android Market.

- Or, if the device has a QR code reader app, such as QR Droid, scan the QR code on the postcard or below.

* For more detail about installing the app, see Appendix 1.

* For iPhone users, use Junaio app as an alternative and search for CityViewAR channel, see Appendix 2.

2. How to use the CityViewAR app

2.1 Startup screen

- Tap on “Start” button to begin with the Map view. (see 2.2)

- Tap on “Instruction” to access brief instructions and credits page. (see 2.7)
2.2 Map View

- The app will suggest faking the location, if the user doesn’t appear to be in the Cashel mall.
- Tap on the “Yes” button if you’re not in the Cashel mall and need to fake the location.
- Otherwise, tap on the “No” button, and wait for a couple of minutes for the GPS sensor to get updated with the current location.

- The Map view shows points of interest (POIs) on the map with icons.
- The red arrow head icon shows the current (or faked) location and heading direction of the device, the sky blue circle shows the accuracy of the location information.
- To switch map visualization into stylized map (as shown in the right figure, above), tap on button on the upper right corner.
- To switch back to satellite image map (as shown in the left figure, above), tap on button on the upper right corner.
- To center the map to the current location, tap on button on the upper right corner.
- Swipe to pan the map, and pinch to zoom, or use the “+” and “-“ button on the left for zooming.
- Four icons on the lower right corner are for changing views. Tapping on the icons, from left to right, will open up the startup screen (see 2.1), AR view (see 2.5), Map view (the current view, see 2.2), and List view (see 2.4), respectively.
- Tapping on (selecting) one of the icons on the map will show a brief description of that location in a popup bubble at the bottom of the screen.
- Tapping on the text description in the bubble will open up the Detail view (see 2.3) of the location.
- Tapping on the icon will open up Image view (see 2.3) of the location.
- Tapping on the icon will close the bubble.

2.3 Detail view and Image view

- The Detail view shows detailed description of the selected location.
- Swipe on the white area to scroll up and down.
- Tap on the icon to open up the Image view (see the next screenshot, below).
- Tap on the icon to open up the Map view (see 2.2) of the location shown in the Detail view.
- Tap on the icon to close the Detail view, and return back to the previous view.
- The Image view shows a set of images of the selected location.
- Swipe left and right to scroll between images.
- Tap on an image to make the image into full screen.
- Pinch to zoom while in the full screen view.
- Tap again to return from full screen view.
- Tap on the icon to close the image view, and return back to the previous view.

2.4 List view

- The List view gives list of all of the points of interest.
- Tap on the name of a POI on the list to open its Detail view (see 2.3).
- Tap on the icon of a POI on the list to open its Image view (see 2.3).
- Tap on the icon of a POI on the list to show its location on the Map view (see 2.2).
- To search for a POI by name, type into the search box on the upper left corner.
- Tap on the icon to sort the list. (You can sort by distance (default), name, and category.)
- Four icons on the lower right corner are for changing views. Tapping on the icons, from left to right, will open up the startup screen (see 2.1), AR view (see 2.5), Map view (see 2.2), and List view (the current view, see 2.4), respectively.
2.5 AR view

- The AR view shows 3D models of the buildings on a live camera background.
- Point the camera on the device toward the direction you want to look at.
- Radar (concentric circles on the left of the screen) shows the POIs around the user’s current location.
- Four icons on the lower right corner are for changing views. Tapping on the icons, from left to right, will open up the startup screen (see 2.1), AR view (the current view, see 2.5), Map view (see 2.2), and List view (see 2.4), respectively.

- Tapping on (selecting) one of the 3D models will show a brief description of the building in a popup bubble at the bottom of the screen.
- Tapping on the text description in the bubble will open up the Detail view (see 2.3) of the location.
- Tapping on the icon will open up the Image view (see 2.3) of the selected building.
- Tapping on the icon will close the bubble.
2.6 Faking the location

Faking the current location is useful for changing the viewpoint (location) in the AR view. Tapping on the icon on the upper left corner of the screen will toggle the fake location on and off. The Map view is a better place to do this, since the user can select one of the viewpoints on the map and check the faked location.

- Select one of the viewpoint icons on the map.
- Tap on the icon, a dialog will be presented asking if you’re willing to fake the location. Answer “Yes” to fake the location.
- Tapping on the icon when the location is already faked, will turn off the fake location and return to the actual location based on the GPS sensor.

2.7 Instruction and Credits screen

- Swipe to scroll the Instructions and Credits page.
- Tap on the links at the top to switch between Instructions and Credits.
- Press “Close” button to return to the Startup screen (see 2.1)
3. Tips & FAQ

- The Map view needs Internet connection for showing map images.

- It is normal to have 10-50 meters of errors from GPS signals, by its nature. This means, the location would be not accurate enough for viewing buildings near to the user in AR. For better experience, the CityViewAR gives suggested “Viewpoint” locations, marked on the map with icon. (The GPS location will be snapped to a Viewpoint when the user appears to be near enough to one of these.)

- GPS sensors can take more than several minutes to acquire accurate enough signal, depending on the device and environment (e.g. weather).

- The AR view may work slowly (not promptly responding to user’s motion and touch) while it loads 3D models, initially.

- Electronic compass sensors may have troubles depending on the environment (such as having huge steel structures or electric equipments nearby). Shaking the device for couple of seconds may help the compass sensor to be reset.

- Instead of using icons, switching between AR view and Map view can be also done by holding the device upright or flat down.
Appendix 1. Installing the CityViewAR app

The image sequence below shows how to search for the CityViewAR app on the market.

- Start up the Market app.
- Tap on the 📱 icon in the Market app.
- Type in “cityviewar” for searching.
- Select the CityViewAR app from the search result, and press ✅ Install button.
Appendix 2. CityViewAR channel on the Junaio app

CityViewAR channel on the Junaio app offers similar information for iPhone users. However, in this case, the app always needs Internet connection, and only text description and pictures are available without 3D models.

[Installing and setting up the Junaio channel]

- Search for “junaio” on the App store and download the app.

- Tap on the “Scan” button, and scan the QR code on the postcard (or below).
- Points of interest are shown as popup bubbles. Tapping one of it will show its detailed description.

- Tapping on the icon on the upper right corner will show icons for accessing the List and Map views (see the screen capture image in the middle).

- Tapping on the icon will show icons for returning to the home screen (see the screen capture image on the right.)