

# **Chiayi Christian Hospital Indoor Navigation App –**

## **User Guide**

This app uses 360° images and arrow guidance to help users navigate from a given starting point to the following two departments:

1. Department of Radiation Oncology
2. Department of Thoracic Surgery

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# Chiayi Christian Hospital Indoor Navigation App – User Guide

(Windows Executable Installation)

## I. Installation and Launch

### 1. Installation

- Open the cloud link:  
<https://drive.google.com/file/d/1yD1fi8RSy-B1Le8Jza2zZWqXKcRNNCp-/view?usp=sharing>
- Download the entire compressed file.

 CYCH Smart Navi.zip

### 2. Launch the App

- After unzipping, double-click CYCH Smart Navi.exe to run the program.

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 MonoBleedingEdge

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 CYCH Smart Navi\_Data

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 UnityPlayer.dll 

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 UnityCrashHandler64.exe 

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 CYCH Smart Navi.exe 

# Chiayi Christian Hospital Indoor Navigation App – User Guide

(Android APK Installation)

## I. Installation and Launch

### 1. Installation

- Open the cloud link:  
<https://drive.google.com/file/d/1wuArFTJinOlVx44ACZBJzjytomwkQYLo/view?usp=sharing>
- Open the link in a web browser (do **not** open directly in Line) and install the app.
- If installation fails, download the file to your computer or phone first, then install using CYCH\_0320.apk.

### 2. Launch the App

- Run the app: **CYCH\_0320**.



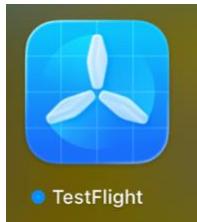
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## (iOS Version Installation)

### I. Installation and Launch (via TestFlight)

#### 3. Install TestFlight

- On your iPhone / iPad, open the **App Store**.
- Search for “**TestFlight**” and install it.



#### 4. Install the Navigation App via Invitation Link

- Open the TestFlight invitation link or invitation email provided by the development team.
- Tapping the link will automatically open TestFlight.
- In TestFlight, tap “**Install**” to install the navigation app.



#### 5. Launch the App

- After installation, tap the app icon on the Home Screen or from within TestFlight.
- When opening the app for the first time, if there are permission prompts (e.g., network access), please follow the on-screen instructions and allow them.

## II. Interface and Function Overview

After entering the app, first select your starting point. (You can switch between Chinese and English using the button at the bottom-right corner – orange area in the figure.) A short instruction diagram will be shown. Please review it before operating.



### 1. Basic Concepts

- The screen displays 360° panoramic images of the hospital interior.
- The blinking arrows on the floor indicate the direction you can move toward and the position of the next node.
- The right-hand side is the main control area, including destination selection, map, and rotation controls.

### 2. Right-Hand Function Panel

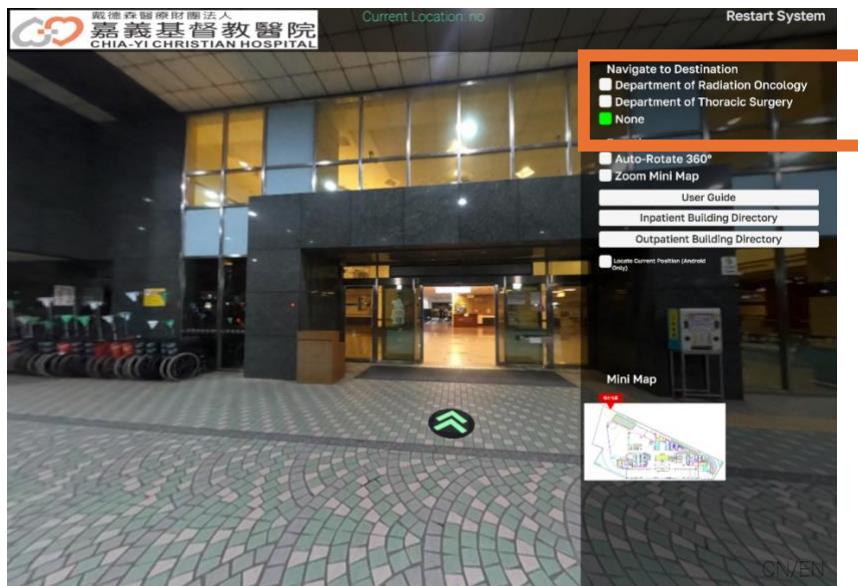
#### a. Top-Right: Destination Selection (orange area in the figure)

##### Basic Concepts

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### 3. Right-Hand Function Panel

#### a. Top-Right: Destination Selection (orange area in the figure)



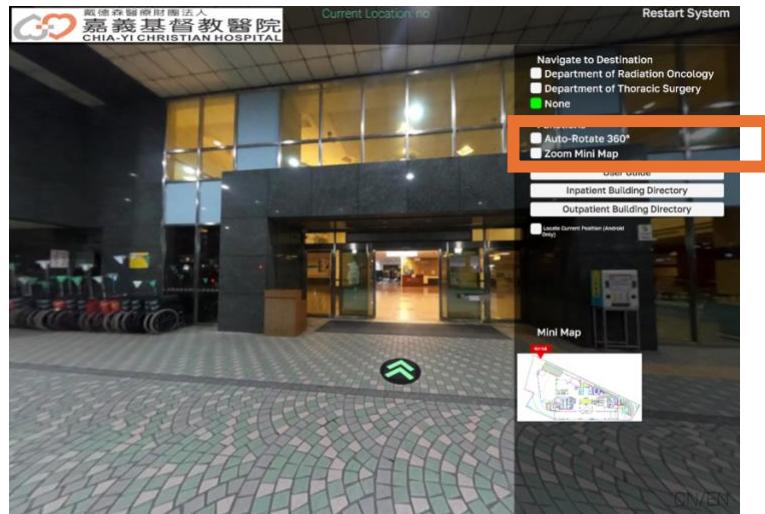
- Tap the destination button at the top-right to select:
  - **Department of Radiation Oncology**
  - **Department of Thoracic Surgery**
- After selection, directional arrows will appear on the screen. Please follow these arrows to move forward.

#### b. Mini-Map (Current Position and Route Overview)

- The mini-map shows your approximate current location and the direction of the route.
- You can zoom in/out on the map using the buttons on the right.

#### c. View Rotation Methods

- **Auto-Rotate (checkbox):**
  - When checked, the system will automatically rotate the 360° view clockwise (orange area in the figure), making it easier to observe the surrounding environment.



- **Manual Rotation (similar to Google Street View):**

- Swipe left or right on the screen with your finger (orange area in the figure) to manually rotate the view.
- This is useful for comparing details between the app and the real environment.



### III. Navigation Operation Flow

The following example explains how to go from the starting point to the **Department of Radiation Oncology** or **Department of Thoracic Surgery**.

#### 1. Select Starting Point and Get Familiar with the Interface

- After launching the app, first confirm your starting point (e.g., gathering point or designated entrance).
- Take a few seconds to observe the screen and surroundings, and make sure the 360° image in the app matches the real-world orientation.

#### 2. Select Destination

- Tap the destination button at the top-right.
- In the menu, choose:
  - “**Department of Radiation Oncology**”, or
  - “**Department of Thoracic Surgery**”
- After selection, directional arrows will appear on the screen (orange area in the figure).



#### 3. Move According to the Arrows

- In the center of the screen or on the floor, you will see the guidance arrows.
- In the real environment, walk in the direction pointed to by the front tip of the arrow.

- While moving, you can tap the flashing arrow to jump to the next node. The app will update the 360° view and arrow position.

#### 4. Compare the Real Environment with the App View

- As you walk, continuously:
  - Compare the **corridors, door plates, and signs** around you, and
  - Check them against the 360° panoramic images in the app.
- If you are unsure about your direction, you can:
  - Stop and use **Auto-Rotate**, or
  - Manually swipe to rotate the view and confirm again.

#### 5. After Reaching the Destination

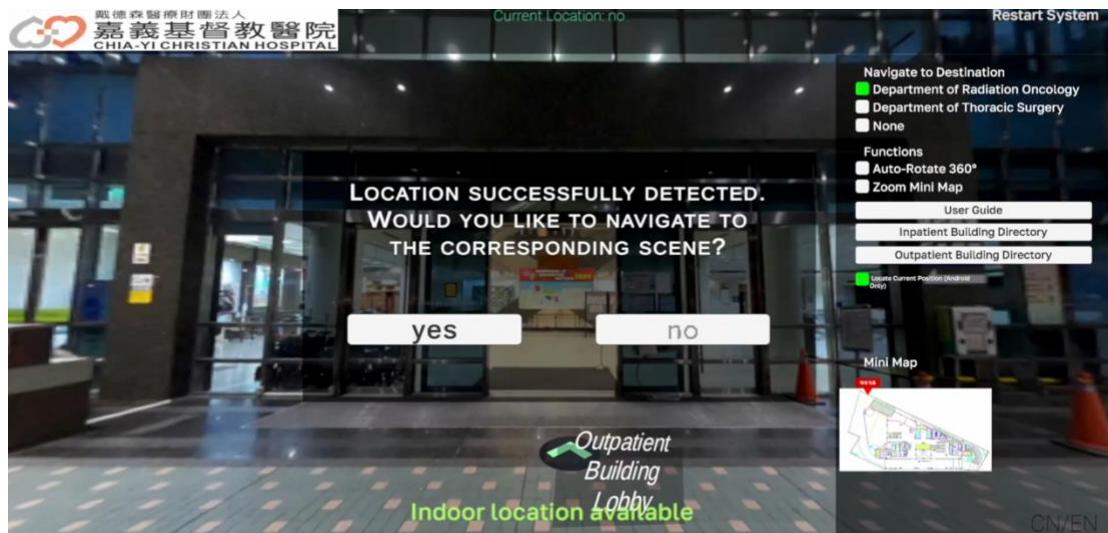
- Once you arrive at the **Department of Radiation Oncology** or **Department of Thoracic Surgery**, the navigation is complete.
- You may then:
  - Return directly to the gathering point, or
  - Tap the destination button at the top-right again to choose the other department and follow the route there,
  - Restart the system and experience the process again.
- After completing all assigned routes, you can close the app or return to the gathering point.



## IV. Positioning Instructions in the Hospital

(Available on Android version only)

- After opening the Android version, select “I am at CYCH”, then tap the “Locate Current Position” button on the right. The following dialog will appear:



- If you select **Yes**, the screen will switch to the corresponding 360° panorama that matches your current location.
- If you select **No**, nothing will happen; the dialog will simply close.

### App Video and File Link

[https://drive.google.com/drive/folders/1zI-znisQ\\_m3ihVBspjhVPeO6ItsEQe1N](https://drive.google.com/drive/folders/1zI-znisQ_m3ihVBspjhVPeO6ItsEQe1N)

## Appendix: Brief Usage Guide and QR Code



### \*\*Navigation App Operation Flow – Destinations:

1. Department of Radiation Oncology
2. Department of Thoracic Surgery\*\*
3. First select a starting point. After entering, take a moment to get familiar with the interface.
4. All function buttons are on the **right side of the screen**:
  - a. At the **top-right**, you can select a destination. After tapping, guidance arrows will appear.
  - b. The **mini-map** shows your current position and can be zoomed in or out.
  - c. You can enable **auto-rotation**, or manually rotate the view by touch (similar to Google Maps).
5. Tap the **flashing arrow** on the screen to move forward.
6. Compare the real environment with the 360° images in the app, and proceed step by step to the destination.
7. After arriving at the destination, you may return to the gathering point, or visit the other destination first and then come back.