

# Photo Guide for Room Reconstruction

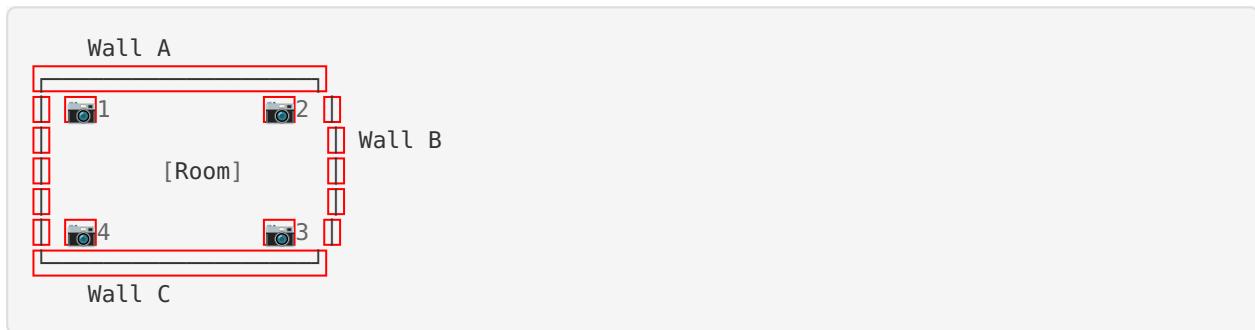
## How to Take Good Photos for This Demo

Since we can't include actual sample images (due to file size and copyright), here's a guide for taking your own test photos.

## Quick Checklist

- [ ] Take 4-5 photos of the same room
- [ ] Stand in different corners
- [ ] Include floor AND walls in each shot
- [ ] Use good, even lighting
- [ ] Avoid clutter if possible
- [ ] Hold camera level (not tilted)

## Recommended Photo Positions



### Photo Details:

1. **Photo 1 (camera 1):** From corner near Wall A+D, aim towards corner B+C
2. **Photo 2 (camera 2):** From corner near Wall A+B, aim towards corner D+C
3. **Photo 3 (camera 3):** From corner near Wall B+C, aim towards corner A+D
4. **Photo 4 (camera 4):** From corner near Wall C+D, aim towards corner A+B
5. **Photo 5 (optional):** From center, rotating to capture a panoramic view

## Good Photo Example (Description)

### Good Photo:

- Camera at eye level
- 2-3 walls visible
- Floor clearly visible in lower portion

- Even lighting across the scene
- Minimal motion blur
- Objects in focus

### **✗ Bad Photo:**

- Camera tilted up at ceiling (no floor visible)
  - Single wall only
  - Very dark or overexposed
  - Heavy motion blur
  - Extreme wide-angle distortion
  - Close-up of a single object
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## **Test Image Sources**

You can use images from these sources for testing:

### **Free Stock Photos**

- [Unsplash](https://unsplash.com/s/photos/room-interior) (<https://unsplash.com/s/photos/room-interior>) - Search “room interior”
- [Pexels](https://www.homestratosphere.com/wp-content/uploads/2016/05/Living-Room-Themes.jpg) (<https://www.homestratosphere.com/wp-content/uploads/2016/05/Living-Room-Themes.jpg>) - Search “room interior”
- [Pixabay](https://pixabay.com/images/search/room%20interior/) (<https://pixabay.com/images/search/room%20interior/>) - Search “room interior”

### **Best Search Terms**

- “empty room interior”
  - “living room corner”
  - “real estate interior”
  - “apartment empty room”
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## **Sample Test Scenarios**

### **Scenario 1: Living Room**

Take photos of your living room from 4 corners, making sure to capture:

- The floor
- At least 2 walls
- Any large furniture (sofa, TV, etc.)

### **Scenario 2: Bedroom**

Photograph your bedroom showing:

- The bed from multiple angles
- Windows and doors
- Floor space

### **Scenario 3: Empty Room**

Ideal for testing - an empty or minimally furnished room:

- Cleaner geometry for the AI

- Easier depth estimation
  - More accurate floor plan
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## Troubleshooting Poor Results

Problem	Solution
No floor plan generated	Make sure floor is visible in photos
Distorted 3D model	Avoid wide-angle lens distortion
Inaccurate dimensions	Adjust the “assumed room width” setting
Incomplete reconstruction	Add more photos from different angles

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## File Requirements

- **Formats:** JPG, JPEG, PNG, BMP, WEBP
  - **Recommended size:** 1000-2000 pixels on longest edge
  - **Minimum:** 500x500 pixels
  - **Maximum:** No hard limit, but larger = slower processing
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Good luck with your room reconstruction! 