

# Photo Guide for Room Reconstruction

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## How to Take Good Photos for This Demo

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

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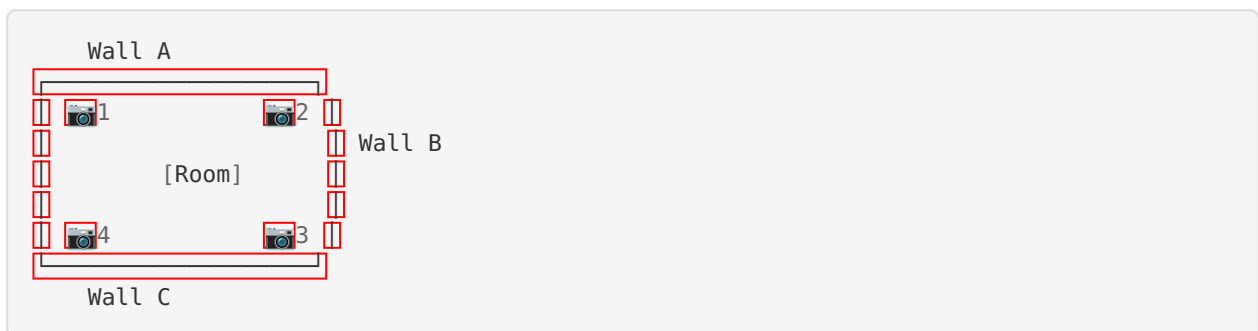
## Quick Checklist

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- [ ] 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)
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## Recommended Photo Positions

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### Photo Details:

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

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### 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

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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

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### 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

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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

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- **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! 🏠