

Galaxy S24 Ultra photogrammetry

CAD-030 / REV A / 2026.09.01

Use the phone as a consistent camera for overlapping photographs, with scale added from a measured reference.

STATUS	Recovered/Partial
CLASSIFICATION	CAD
MATERIAL	CAD / AUTOMATION
DISPOSITION	PUBLIC / RECOVERED/PARTIAL
CATEGORY	CAD / Scanning / Automation
RECORD TYPE	how-to

GOAL

Run the first test described in this guide and record the result for galaxy s24 ultra photogrammetry.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

- Scanner / mesh workflow
- Representative test model
- Measurement or inspection method

METHOD / STEPS

1. Use one lens and a consistent zoom setting; avoid switching lenses around the object. Prefer sharp, evenly exposed still photos.
2. Place a textured matte object under diffuse light and include a known scale reference without moving it relative to the object.
3. Capture overlapping rings at low, middle and high angles, roughly 70-80% overlap as a starting acquisition target.
4. Process a small subset first, inspect alignment and then reconstruct the full set. Check scale and trim background afterward.

THINGS TO WATCH FOR

Reflective, transparent or textureless objects can fail even with high-resolution images. Portrait blur, digital zoom and motion blur hurt reconstruction. A photograph-derived model has no guaranteed metric scale by itself.

FIRST TEST / WHAT TO RECORD

Most cameras align and the scaled model agrees with an independent measurement.

RESULT / WHERE THIS STANDS

Most cameras align and the scaled model agrees with an independent measurement.

TROUBLESHOOTING

- Reflective, transparent or textureless objects can fail even with high-resolution images. Portrait blur, digital zoom and motion blur hurt reconstruction. A photograph-derived model has no guaranteed metric scale by itself.

SPECIFICATION

TOOL PATH	Scanner / mesh workflow
DELIVERABLE	HOW-TO
VALIDATION	Representative model / known dimension
STATUS	Recovered/Partial

DEVELOPMENT HISTORY

2026.09.01 / Rev A

Imported as an independent manifest record; public copy keeps uncertainty visible.

REFERENCE NOTES

Meshroom acquisition/processing reference
(<https://meshroom-manual.readthedocs.io/en/latest/capturing/capturing.html>).

HOW-TO SOURCES

Meshroom acquisition/processing reference
<https://meshroom-manual.readthedocs.io/en/latest/capturing/capturing.html>

RELEASED MATERIAL / SOURCE LINKS

cad-030-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-030-public-summary.txt>

RETURN TO THE LIVING RECORD

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This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/CAD-030>