

Scanning outdoors and in dim shop conditions

CAD-021 / REV A / 2026.09.01

Control both the projected-light environment and camera exposure. Dimness and direct sun cause different problems.

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 scanning outdoors and in dim shop conditions.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

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

METHOD / STEPS

1. Check the exact scanner mode's permitted ambient conditions and work in stable shade where practical.
2. Secure the object and use approved surface preparation or markers if its geometry/finish gives poor tracking.
3. Adjust exposure while viewing the live coverage indicator. Move slowly enough to maintain overlap and keep the working distance consistent.
4. Capture a short test, inspect holes/noise and only then scan the full object.

THINGS TO WATCH FOR

A scanner with its own light still may struggle with sunlight, black surfaces or reflections. Moving shadows and vibrating parts reduce consistency. Do not apply spray to a surface without permission.

FIRST TEST / WHAT TO RECORD

The test pass maintains tracking and produces repeatable features across overlapping captures.

RESULT / WHERE THIS STANDS

The test pass maintains tracking and produces repeatable features across overlapping captures.

TROUBLESHOOTING

- A scanner with its own light still may struggle with sunlight, black surfaces or reflections. Moving shadows and vibrating parts reduce consistency. Do not apply spray to a surface without permission.

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

EINSTAR manufacturer reference (<https://www.einstar.com/pages/einstar-2-specs>), Creality scanner reference (<https://wiki.creality.com/en/3d-scanner/raptorx/tutorial>).

HOW-TO SOURCES

EINSTAR manufacturer reference

<https://www.einstar.com/pages/einstar-2-specs>

Creality scanner reference

<https://wiki.creality.com/en/3d-scanner/raptorx/tutorial>

RELEASED MATERIAL / SOURCE LINKS

cad-021-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-021-public-summary.txt>

RETURN TO THE LIVING RECORD

Scanning outdoors and in dim shop conditions

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

<https://u225x.com/record/CAD-021>