

INSTRUCTIONS – 3D SCAN OF YOUR FRAME

Required Materials

- Smartphone with the KIRI Engine App (free version is sufficient)
- Printed PDF
- Ruler / set square / measuring tool
- Adhesive tape (clear tape or packing tape)

KIRI Engine App links:

- <https://apps.apple.com/de/app/kiri-engine-3d-scanner-lidar/id1577127142>
- <https://www.kiriengine.app>

1. Print the Templates

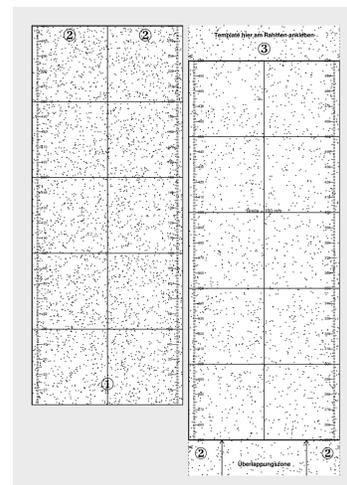
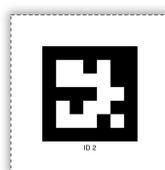
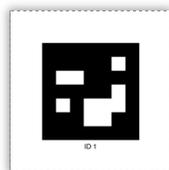
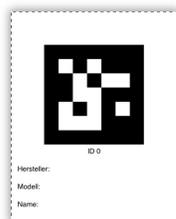
- Paper size: A4
- Files: Scan_Print.pdf
- Print setting: 100% / Actual size (do not scale to fit)

2. Check the Scale

- Check the reference measurement (left side of the rectangle) and width/scale using a ruler.
- Also check the ArUco markers (must be 45 × 45 mm).

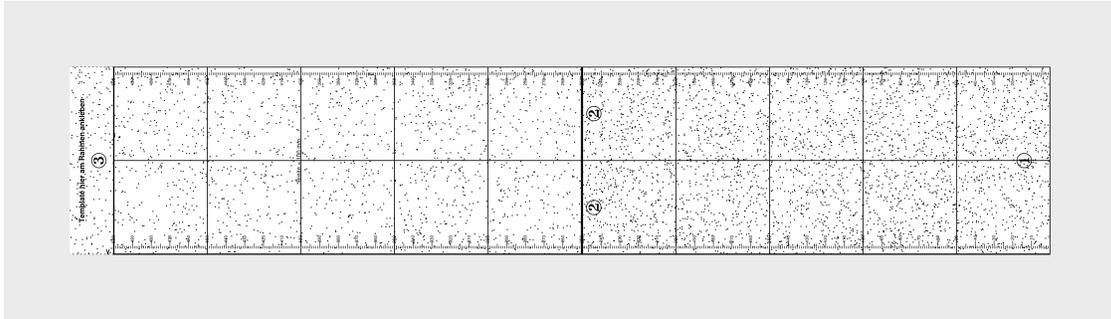
3. Cut Out the Template & ArUco Codes

- Cut the frame templates along the dashed lines.
- Label ArUco marker ID 0 and cut out three markers along the dashed square line.



4. Tape the Templates Together

- Place the two frame templates together so the ruler/scale continues seamlessly (double-check with a ruler if needed).
- Align everything straight and tape it firmly.



5. Attach the Template to the Frame

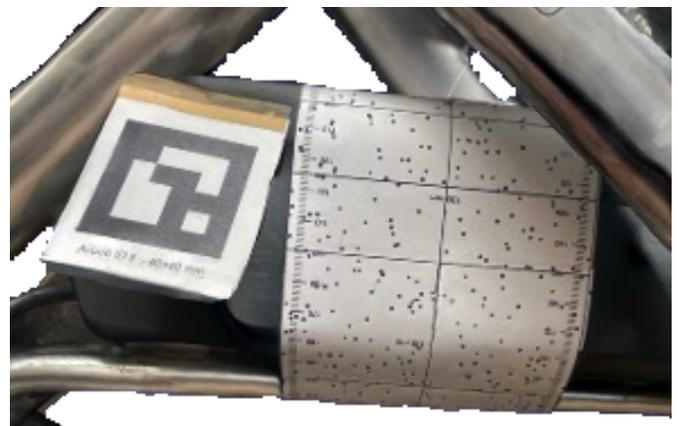
Attach the template to the position on the frame where the lock will later be mounted.

- Align marking “3” as straight as possible on the frame and fix it in place.
- Wrap the template tightly and without wrinkles around the frame.
- Align and tape the end at marking “1”.



6. Attach the ArUco Codes

- Use a total of 3 codes.
- Positions: next to the lock template – left, right, and front or back.
- Attach them as flat as possible (no folds or bends).



7. Scan Using the KIRI App

1. Open the KIRI app on your smartphone and sign in.
The free version is sufficient.
2. Tap the plus symbol (+) at the bottom center.
3. Select “Scan photos”.
4. Keep the camera at a distance of approx. 40–60 cm and always aim at the lock template.
5. Please avoid:
 - fast movements
 - blurry images
 - strong shadows or poor lighting
6. Take the first photo as a starting point.
Then move slowly and evenly around the frame or lock template and take photos.
7. Take a total of approx. 40–80 photos – better a few more than too few.
8. Make sure the lock template remains centered in the image and all areas are captured from different angles.

9. After capturing, save all images in the app
(this may take a moment depending on your internet connection).

10. The KIRI app processes the images automatically. After a few minutes, the 3D model will be ready.

11. Open the “Scans” section in the top menu and select the corresponding scan.
Check the scan for blurriness or inconsistencies on the lock template.

12. Tap “Export” (depending on the version, login may be required) and send the exported file by email to: scan@kattfix.com
(If another email address is already entered, please remove it first.)

13. Additionally, send a separate email to scan@kattfix.com with the following information:
 - Name
 - Model
 - Manufacturer
 - Purchase date