ottobock.

iFab EasyScan

Quick start guide

Quality for life

This guide will provide a quick walk-through when using iFab EasyScan for the first time. Please follow the instructions to ensure the best outcome for your patient.

Please note: A limb model is available but not required to learn how to use iFab EasyScan most efficiently and properly. For this purpose the model is prepared with landmarks needed to conduct a scan for custom liners.

Download and install the iFab EasyScan application

If you have not yet installed the application you can download and execute the installer at:
https://www.ifab-customer-center.com/Downloads

1 Start the application and login with you iCC credentials

- Start the application through the desktop icon. You will be asked to pair your device with your iCC account. Use your personal credentials to login. If you do not have an account yet click on “Create an account” to sign up

2 Choose “General Scan” in the menu and start a new job

- After login select “General Scan” to start the sub-application
- Click on “New Job” in order to proceed and begin a new job

3 Assign job ID

- Assign an identifying job ID to proceed with “Start scanning”. This can be any label preferred
- **Note:** Avoid specific names for data privacy reasons
- Please review and follow the additional scanning tips to ensure the best scan result.

4 Select scan volume – in this example size S

- Select a scan volume in which the object has to be placed before starting the scanning process. Only objects placed within that scan volume are visible to the camera and captured during scanning
- To select a scan volume that fits closest to the dimension of the object select “Define bounding box” in the right-hand menu and apply the appropriate selection
- The application always starts with the last selection used

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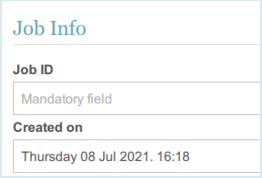

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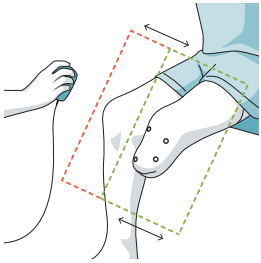
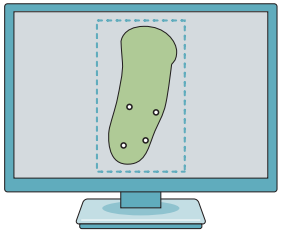
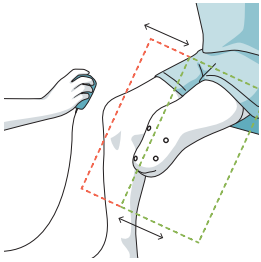
5 Positioning the object and start scanning

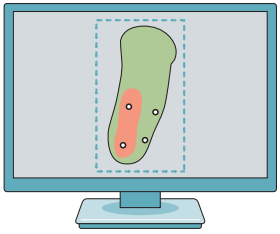
- Different colors indicate whether the object is within or outside the detectable scan volume. Red indicates the object is outside, green indicates the object is inside the detectable reach of the camera. Hold the camera parallel to the surface of the object. Avoid tilting the camera which might effect that parts of the object drop outside the detectable area
- When the object appears completely in green you can initiate the scan process clicking on “Start Scan”



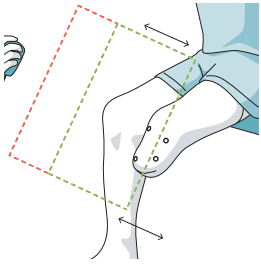


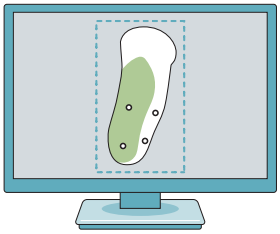
Correct placement





Object too close





Object too far away

6 Conduct and complete a scan

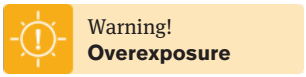
- After the countdown reaches zero the display changes and turns to show the captured areas of the object. Complete the scanning process moving around the object until it is fully captured
- Texture at specific areas of interest (e.g. landmarks) can be sharpened by lingering above the area for a second and moving the camera close to it
- If tracking is lost the easiest way to regain tracking is returning to an already captured area or to the starting point. As long as the position has not changed the software will recover the area and continue tracking

On tracking

Off tracking

7 Light Conditions

- For optimal scan results, please avoid areas with too little or too much light (e.g. in front of a window or in an unlit workshop).
- Normal room light conditions generate the smallest deviations of the scan and provide you with a good texture quality
- The auto exposure of the scanner tries always to adapt the scanner settings to guarantee the best possible outcome
- **Warnings:** There are two levels of warnings in case of overexposure:



- Visual feedback exposure: The object must be shaded completely in green before you start the scan to have an optimal exposure. If the object is only partly green, it is overexposed. Point the scanner to the object and wait a little bit. The auto exposure finds the correct level automatically and the object is colored green completely

Major overexposure

Overexposure

No overexposure. Ready to go.

8 General notes for scanning

- Move the scanner always facing parallel to the surface of the object
- The minimum operating distance of the scanner is 17 cm. If you are too close, the color field in the area of interest will be red until you increase the distance
- General behavior: The closer the scanner is to the target surface of the object, the better the data density for reconstructing the surface
- The surface quality of the scan object will improve by scanning through multiple passes. The outcome is smoother and the relevant anatomical structures are shown with higher accuracy

One pass

Too close

Multiple passes

9 Review, cropping and finish a scan

- When the object has been captured completely, review the scan result clicking on “Pause scan”. In case of uncaptured areas you can return to scanning mode and complete the scan
- Crop areas out of interest using the cropping tool in this section. Open the tool with the icon in the top left corner. Draw a line between the area remaining after cropping and the area to be cropped away. Invert the direction of the cropping area if necessary. When satisfied with the selection apply the cropping

- Save the scan to the job list with “Finish Scan”. **Note:** Cropping cannot be undone after this point

10 Complete the job and upload

- The completed job can be found in the job list waiting for finalization. Start finalization with the button . During this step the upload package is created. After finalization upload the job package to the iCC with the button . From there you can access the scan file
- Uploaded jobs are moved into the archive. Jobs can be moved back to the job list by clicking on the three dots

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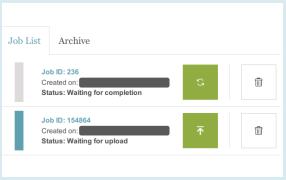

11 Access the scan file

- To access the scan file, switch to the iCC either through the menu in the top left corner of the application or access the website www.ifab-customer-center.com
- Go to the “Scan List” which can be found in the header under your name
- Select the scan to be downloaded. Review the scan in 3D-view. Start the download via the download icon and choose the the file type of the 3D scan
- The scan will be downloaded to the directory on the local machine as a zip package. Unpack the zip package to use the 3D file for further processing

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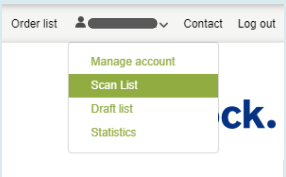

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