

fastsmile.io™

3D FACIAL SCANNER

Instructions for Use

Product Description

The **fastsmile.io** is a 3D scanning device designed to capture high-resolution images of a patient's face to generate a digital facial model.

Intended Use

The device assists dental professionals in combining facial and intraoral data to improve communication, and help patients visualize the effects of dental restorations.

System Components

- fastsmile.io device
- Thunderbolt USB-C/A splitter cable
- Tripod
- Facial Scan Guide
- White balance card/ Calibration certificate
- Instructions for use
- Quick-start guide

Setting Up the Scanner

1. Attach the tripod by fastening it into the threaded hole on the bottom of the fastsmile.io scanner.
2. Extend the tripod legs and place the device on a stable, level surface.
3. Connect the single end of splitter cable to the scanner. Connect the USB-C connector of the Thunderbolt splitter cable to a thunderbolt port on computer.
4. Power on the fastsmile.io.
5. Connect USB-A connector of the splitter to a USB-A port on computer.

Steps for White Balance

1. Launch the **fastscan.io** software and create or select a patient file.
2. Click **Scan Facial Image** to open the face scanning program.
3. Confirm that the fastsmile.io scanner is connected and recognized.
4. Point the scanner at the white balance card.
5. Hold the scanner approximately 8-10 inches from the white balance card, then hold the right arrow button for 1 second to run white balance.

Note: Repeat the steps if you're in a new environment or if the lighting conditions have changed (see step 5 in Quick Start Guide for more information).

Taking a Scan

1. Launch the **fastscan.io** software and create or select a patient file.
2. Click **Scan Facial Image** to open the face scanning program.

3. Confirm that the fastsmile.io scanner is connected and recognized.
4. Ensure the patient isn't wearing head coverings (if possible) or glasses, and that hair is away from the face.
5. Quick-press the left arrow button on the device to enter live preview mode.
6. Adjust the scanner's distance using the distance bar and mesh preview for proper alignment.
7. Allow auto-brightness to calibrate once scanner is at the proper distance.
8. Quick-press the left arrow button on the device to begin scanning. To pause and resume while scanning, quick-press the right arrow.
9. To stop scanning, long-press the left arrow button.
10. Once processing is complete, the scan will appear on your screen.
11. If needed, take an additional scan by clicking the **Scan** button again.
12. Click **Save and Exit** to save all collected scans and exit the software. The scans will be exported and saved in the fastscan.io application.

Optional Steps

- If scan needs to be deleted, right-click the scan file name on the left and choose **Delete Selected**.
- Click **Clear Scans** to delete all existing scans.
- Click **Exit** to delete all scans and close the software.

Maintaining the Scanner Operation

- Arrange cables neatly; avoid twisting or overstretching.
- Keep the scanning area free of loose cables to reduce tripping risks or accidental disconnections.

Cleaning

- Wipe the scanner housing with a lint-free cloth with a 1:1 solution of isopropyl alcohol and water after each use.
- Use a non-abrasive glass cleaner and microfiber cloth to gently clean the optical glass, removing any smudges or fingerprints before scanning.
- Collapse the tripod when scanner is not in use.

Storage

- After use, disassemble the tripod or monopod and store the system in its provided case.

Scanner Specifications

| Table 1 | |
|-------------------------------|--|
| Model | FS-1-2025 |
| Power and IO | Thunderbolt 4 USB-C and USB-A 3.0 for power and data |
| Operating Temperature | 104° F maximum operating temperature |
| Dimensions (L x W x H) | 240 x 115 x 44 mm |
| Weight | < 1.8 lbs |
| Field of View | 200 x 110 mm |
| Output Format | PLY, STL, OBJ, JPG |




Recommended Minimum PC Specifications

| Table 2 | |
|---------------------------|--|
| CPU | Intel® Core™ i5 |
| CPU Speed | 2.7 GHz |
| GPU | NVIDIA GTX 1660 6 GB |
| Memory | 32 GB RAM |
| Hard Drive Storage | 500 GB NVMe |
| PC Connections | 1x Thunderbolt 4 USB-C and 1x USB-A 3.0 port |
| Operating System | Windows 10 (64-bit) or later |

Troubleshooting Guide

| Table 3 | | |
|---|--|---|
| Symptom | Possible Cause | Resolution |
| Unable to connect to the scanner | Cable connection order | Use only the supplied cables. First, connect the USB-C split end to a Thunderbolt port, power on the scanner, then connect the USB-A. Retry connection. |
| Color does not look right | White balance settings are incorrect. | Follow the white balancing steps outlined in the <i>Scanning</i> section. |
| Data looks distorted | Loss of calibration due to camera/ lens shift or device dropped. | Contact manufacturer. |
| Blurry Live View | Optical glass is dirty | Clean the protective glass with a soft cloth and non-abrasive glass cleaner to remove smudges or debris. |

Symbols Glossary

| Table 4 | | |
|---|---------------------------------------|---|
| Symbol | Reference No. ISO 15223-1 | Title and Symbol Description |
|  | 5.4.3 | Consult instructions for use Indicates the need for the user to consult the instructions for use |
|  | 5.1.1 | Manufacturer This symbol shall be accompanied by the name and address of the manufacturer |
| Symbol | Reference No. BS EN 50419:200615223-1 | Title and Symbol Description |
|  | Figure 1 Section 4.2 | Separate collection of waste of electrical and electronic equipment Do not dispose of battery in municipal waste. The symbol indicates separate collection for battery is required. |



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This device is for visual planning purposes only and is not intended to diagnose, treat, cure, or prevent any condition.