



Hybrid-Resolution Composite Scan with Scan Index:

Records Visit including Intra Oral Scan and Smartphone Facial Scan

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Prior to starting:

- Have Polycam, Scaniverse, or Qlone app set up on your phone
 - (Set up green or white screen optional)
- Have (IO) Intra Oral scanner open and set up

I. Smartphone Facial Scan. Polycam Scan

- A. Green Screen or White Screen** and facial scan set up. Lay out screen for backdrop to decrease background noise for scan. Make sure your smartphone and accessory lighting are fully charged. Alternatively pick a well-lit corner with white or neutral walls.
- B. Place Index** at Facial #8 + 9 in between full smile upper and lower lip lines black side up; we need to see the edge of index when patient smiles. Grab index with cotton pliers, place small amount of flowable on underside, dry teeth, place, cure. Add small amount of additional flowable if needed without obscuring index.

C. Polycam Scan (Polyscan)

1. **Download Polycam app** ahead of appointment (paid subscription ideally) to your phone; free version does not allow stl export and must go through intermediate apps or through Dr. Goodspeed's license to convert. Alternative is **Scaniverse** free app which does allow for free stl export but has lower resolution and clarity of the face and index. As of June 2026, the **Qlone** app does not register the T-Bow version of the D-Bow with as much clarity; request in advance an alternative G-Bow index.
2. **Start new scan**
 - Select + button.
 - Object (photogrammetry mesh vs. LIDAR as per tech support recommendation for small objects).
 - Patient close to screen, ears showing, smartphone close and perpendicular to patient face, Flashlight on full, Auto mode, 1.0X, press start button.
 - Slowly move camera left and right and up and down to capture full face portrait view.
 - Extend to both sides at profile view.
 - Extend up and down to capture inferior to maxillary lip line and incisal edges if possible, and index very importantly. Pause and keep camera steady.
 - Flower/closeup mode, flashlight on. Resume scan.
 - Get closer and zero in on teeth, incisal edges, under lip, straight on and especially from side and inferiorly.
 - Slowly move to eyes and capture more detail. End scan.
3. Upload and Process, Default (or Dense).
4. During several minute processing you may begin IO scan. Be very careful not to dislodge index or start over!
5. After Polyscan upload, reopen scan on phone or online which is more versatile.
6. Crop to consolidate. Keep ears, nose, and neck within scan. Apply.
7. Export as STL if paid license, GTLF if free license. Share file with drbarrygoodspeed@protonmail.com, subject = HRCS First Name Last Name.
8. (Optional sometimes produces greater clarity of index) Remesh. Adaptive. Polygon count 100%. 8k resolution. Check Remesh. May take 5 minutes.
9. Wait for processing to ensure clear capture of face, teeth and index. Export as STL.

II. IO Scan

A. Set Up prior to face scan

1. Trios

- UAB Internal Lab
- Rx Do not fabricate
- select crown # 5, e.g.
- Check Preoperative scan (for index)

2. Primescan

- Administration
- Biocopy #5
 - Upper Jaw without index
 - Lower Jaw
 - Upper Jaw Biocopy with Index
- Export Highest Resolution as **STL**; export as **DXD** if sending to inLab CAD.

3. Shining 3D

- Select crown # 5, e.g.
- Check scan a pre-op model (for index).

B. 1. Scan

- Upper with index as Pre-op or Biocopy
- Lower

2. Advance to Preparation Images

- Primescan and CEREC, copy the Upper Biocopy to Upper Jaw catalog.
- Wait for Polyscan to process and verify you have captured index
- Remove index; scan over #5 “prep” if needed to fill void.
- Cut out Facial of # 8 + 9, scan the clean surfaces.

4. Advance forward, draw margin on facial #5 if needed, process.

5. Export as STL (DXD if CEREC to inLab) to desktop or shared office folder (allows for multi computer access in the office) and Export to flash drive, DS Core, and ultimately to cloud drive.

III. Photo X 6 (Very beneficial)

Portrait: repose, full smile, lip at rest

Profile: repose, full smile, lip at rest

IV. Send all STL files and photographs to 3DGS Lab for processing

1. Send via DS Core if CEREC or inLab user.
2. Non-CEREC users send to 3DGDServices@gmail.com