

# ACHIEVING QUALITY INTRAORAL SCANS

Case setups are only as good as the scans that produce them. Quality scans are essential. Fees still apply even if the scans are unusable.

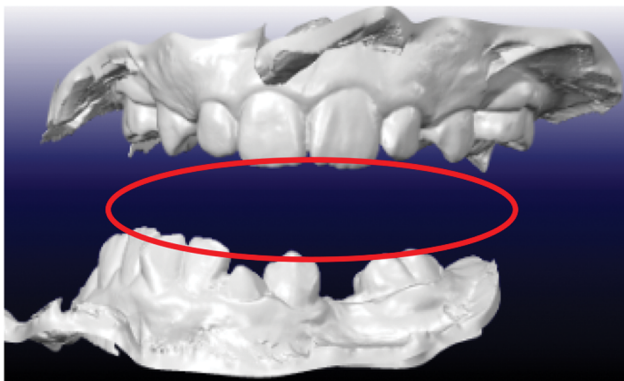
Use the examples below to assist you to achieve quality scans. Poor scans are on the left and quality scans are on the right.

## OPEN BITE

Do not send scans with open bites.

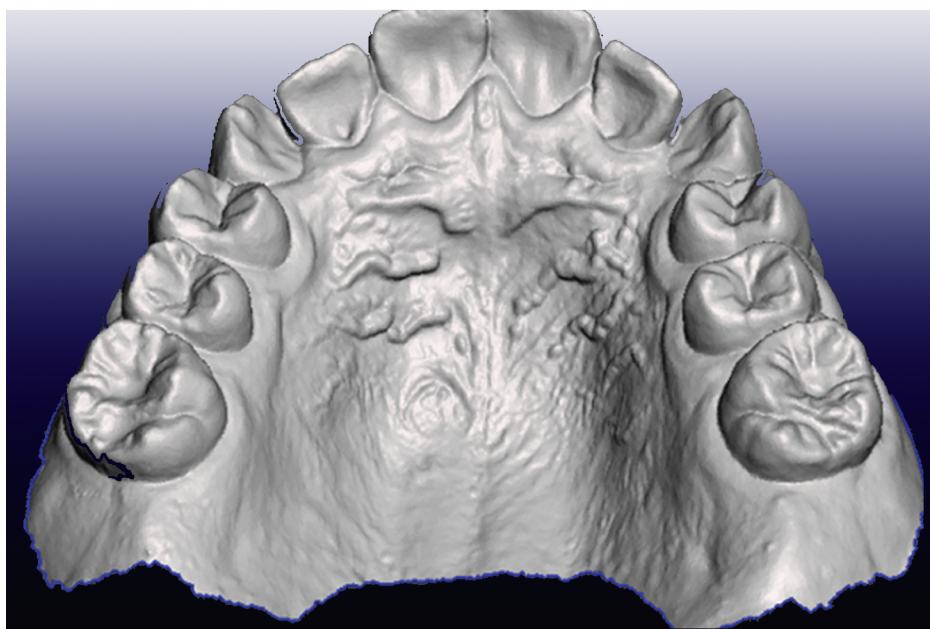
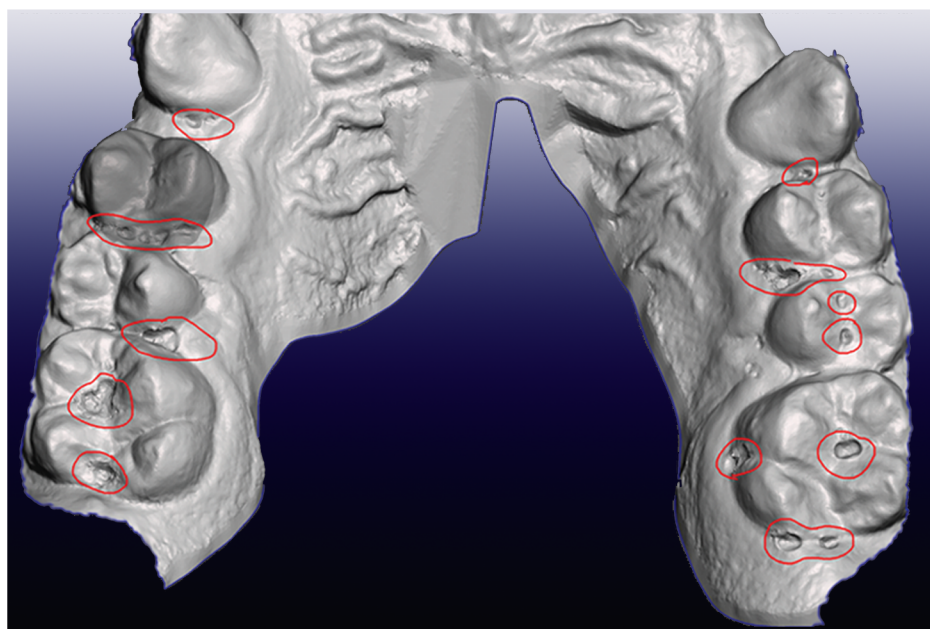
The image on the left shows the maxillary and mandibular arches not in occlusion. This occurs when the 3rd scan of the patient's mouth (occlusion) is not completed. **To prevent an open bite**, please make sure to scan a third time with the bite in occlusion before submitting your scan to OrthoSelect.

We can do a bite adjustment in these situations, but please understand that where we place the occlusal bite is an educated guess and may not be exact. There may be an additional charge.



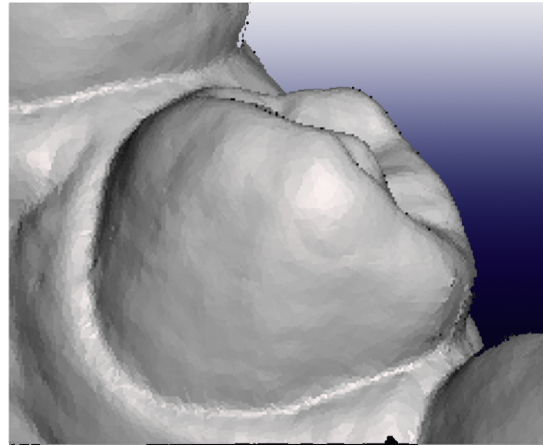
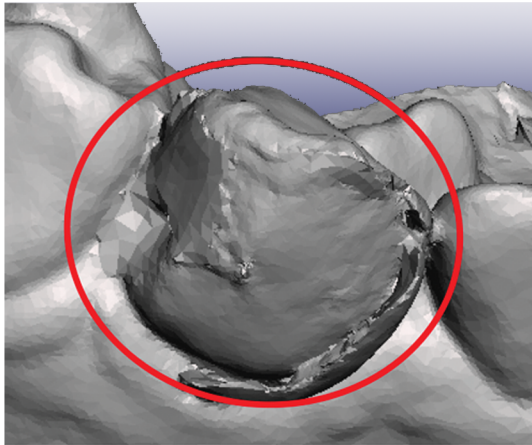
# SALIVA

The image below shows saliva pockets on different parts of the patient's mouth. Although very small, these discrepancies can make a big difference in the fit of your trays. **To prevent saliva distortion**, make certain to air dry and suction all teeth thoroughly prior to taking scans. This will prevent saliva bubbles.



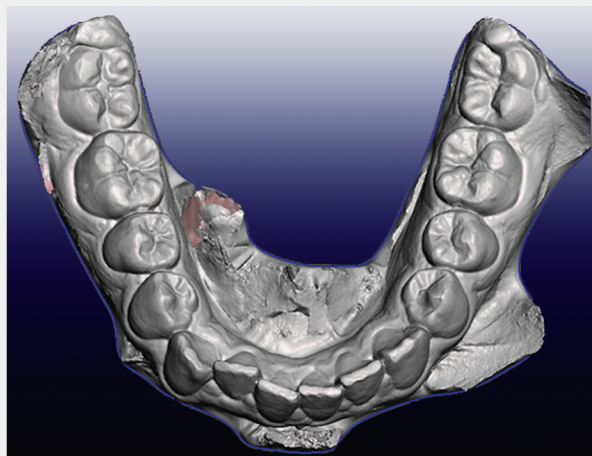
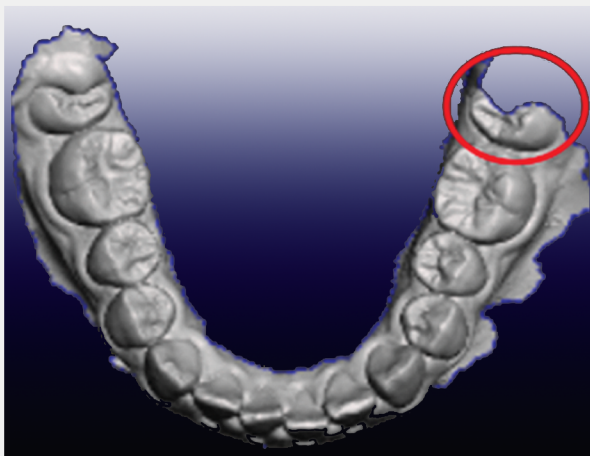
# GENERAL DISTORTION

The image on the left shows a very distorted tooth. **To prevent general distortion**, please take adequate time to completely scan all around each tooth.



# PARTIAL 2ND MOLAR

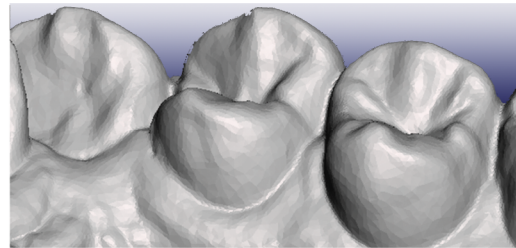
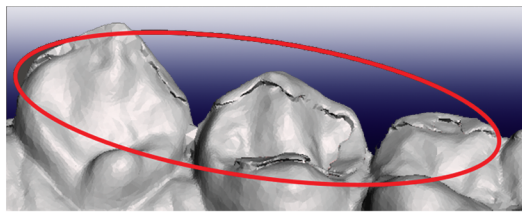
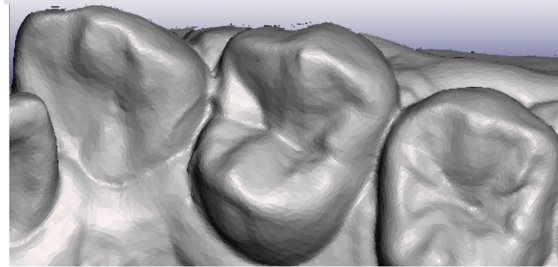
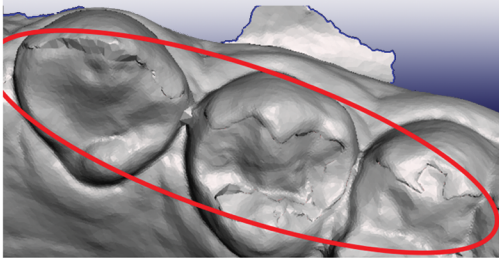
The image on the left shows a lower left 2nd molar that is partially visible, even though it is fully erupted. **To prevent capturing a partial 2nd molar**, scan all around the entire tooth and surrounding tissue. This is important if you are requesting trays that require 2nd molar coverage.





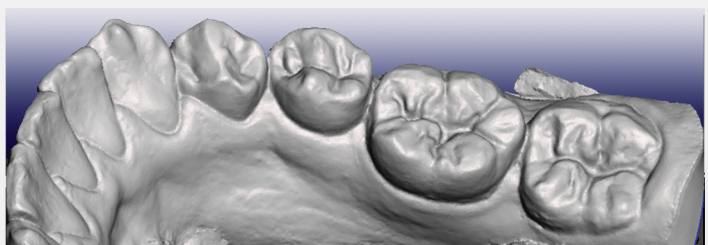
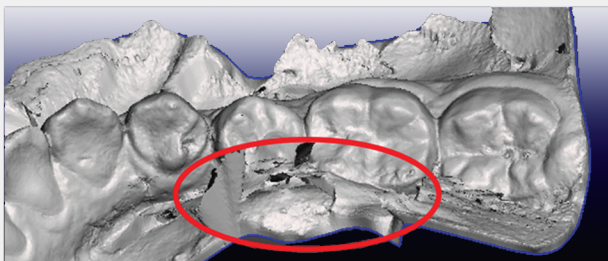
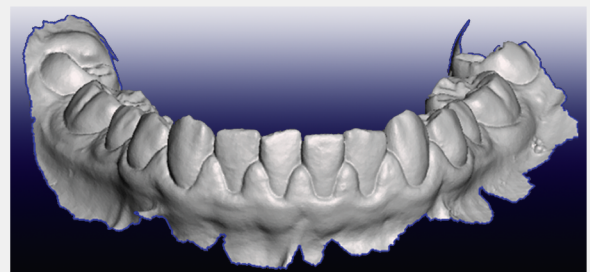
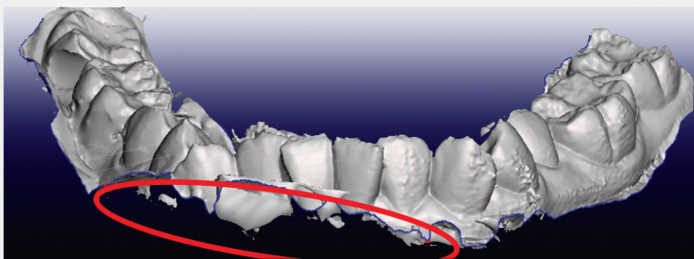
# DOUBLE SURFACING

The images on the left show double surfacing. Double surfacing is when an intra-oral scan appears to have two different surfaces, similar to the patient biting twice into the same impression. This is caused when the scanner fails to appropriately scan the tooth anatomy on the first pass. The program will then ask to scan the area again, but after scanning a second time, it fails to accurately merge the two passes together. **To prevent double surfacing**, make sure to keep the scanner on the same plane and take a little extra time. Please check the scan to make sure it appears like the pictures on the right.



# INCOMPLETE SCANS

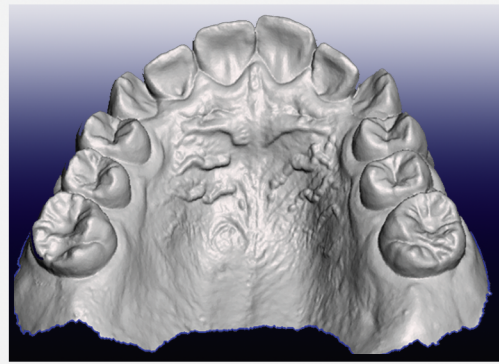
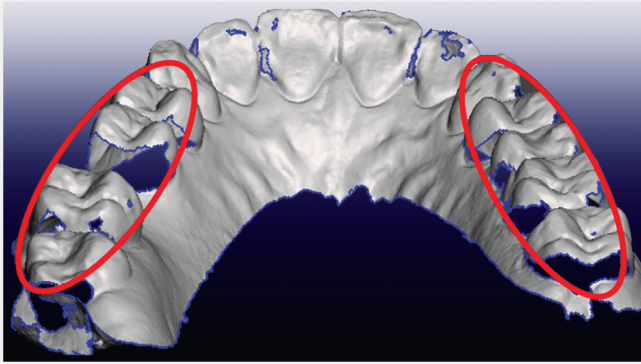
The images on the left show incomplete scans. Incomplete scans are caused when the intra-oral scanner fails to accurately scan all of the tooth and/or gum anatomy. **To prevent incomplete scans**, ensure to completely scan as much of the buccal, occlusal, and lingual anatomy as possible.





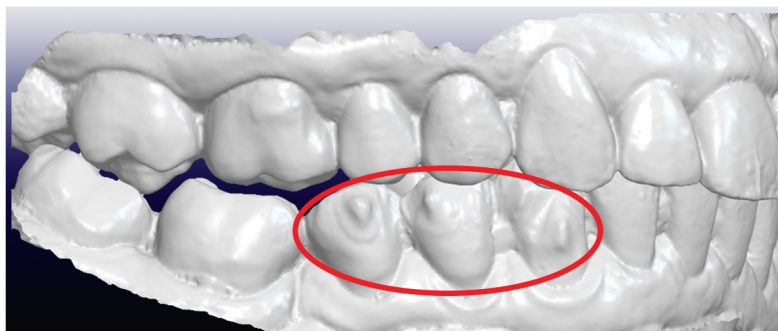
# HOLES IN SCAN

The image on the left shows a scan with many holes. Holes occur when the operator waves the tip over the teeth too fast, skipping important data. **To prevent holes from forming in the scans, please make sure to slow down and take adequate time on each tooth. Check the scan images to make sure they appear like the image shown on the right.**



# FACIAL ATTACHMENTS

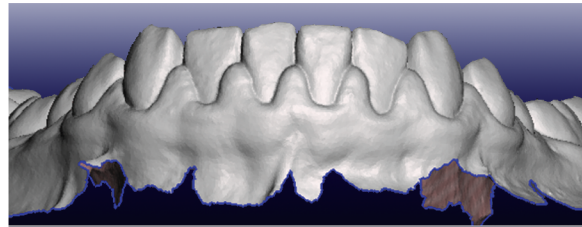
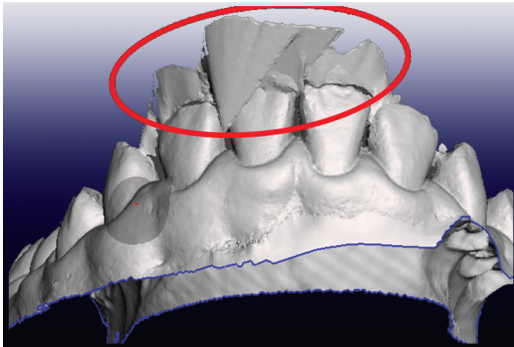
It is difficult to work with scans that have Invisalign™ or other facial attachments, but we can remove them digitally. **However, we cannot guarantee the trays will fit.** We recommend removing the facial attachments prior to scanning.



# EXCESS MATERIAL

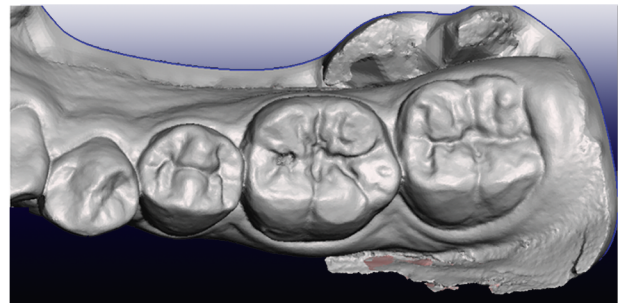
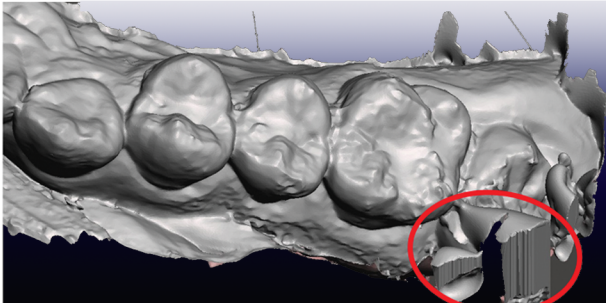
## Holes

When multiple holes occur in the intraoral scan, the intraoral software attempts to fill the holes. This is the result of the holes being improperly filled (see “Holes in Scans” above.)



## Spikes

Spikes also occur from improper hole-filling in scanner software, making the true anatomy of the teeth hard to interpret (see “Holes in Scans” above.)



## Plaque

Minor cases of plaque are not an issue but extreme cases of plaque will prevent a good quality scan. This will affect how the DIBS AI tray will seat on the teeth. **To prevent plaque from showing**, please have patient’s teeth cleaned before taking an intra-oral scan.

