# Instructions for Using
# MAX
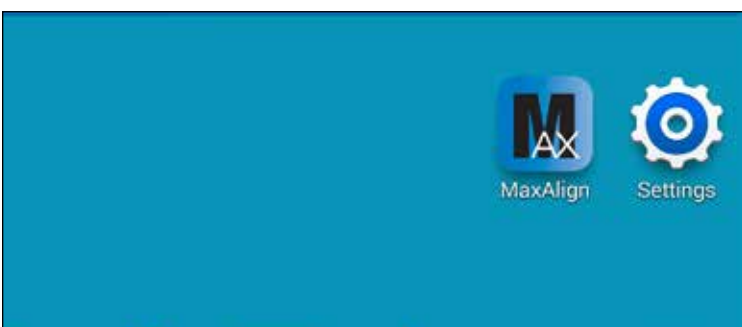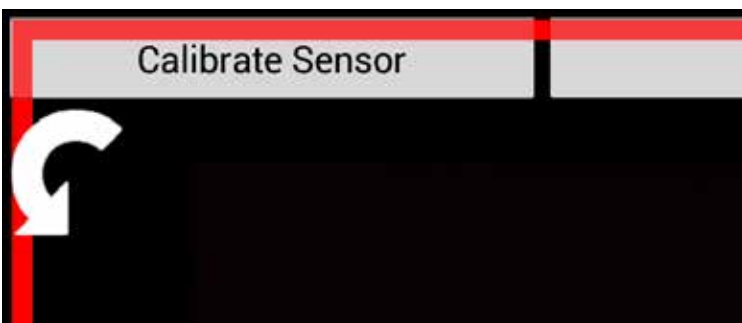
aka MaxAlign from Whip Mix

## Purchase App

- Purchase and download the app called Max from the Google Play Store.

- For technical support of tablet, please contact Samsung.



## Calibrate the Tablet

- Launch MAX app on tablet.

- Place tablet in stand.



- The red and orange colors around the inner screen indicate that the tablet is not level. Use the arrows to adjust tablet as needed. Once you have a green color around the inner screen, the tablet is level and ready for use.

- If needed, use the Calibrate Sensor button to calibrate tablet.

**TIP:**
The Calibrate Sensor Button automatically recalibrates the orange, yellow, and green bounding boxes. This should be done once the tablet has been placed in the stand and manually calibrated.
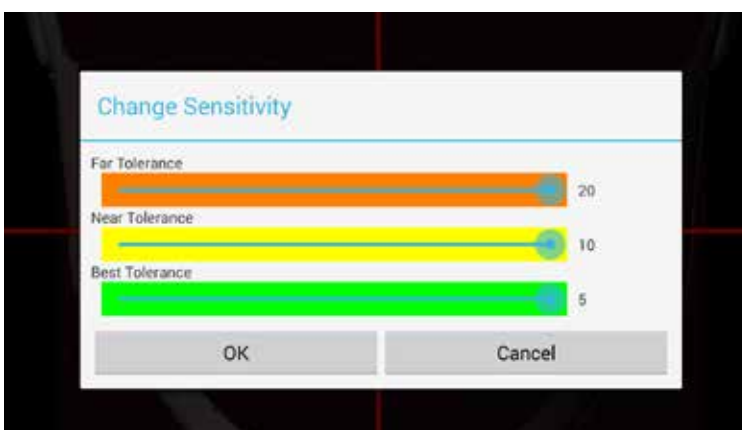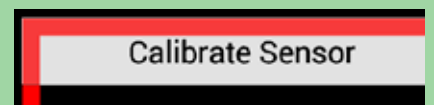


## Adjust Sensitivity

- The Adjust Sensitivity Button allows the user different levels of sensitivity in using the orange, yellow, and green bounding boxes.



- A setting of 0 means extremely sensitive and a setting closer to the end number means some sensitivity.

**TIP:**
An ideal setting of sensitivity is:
Far Tolerance of 1
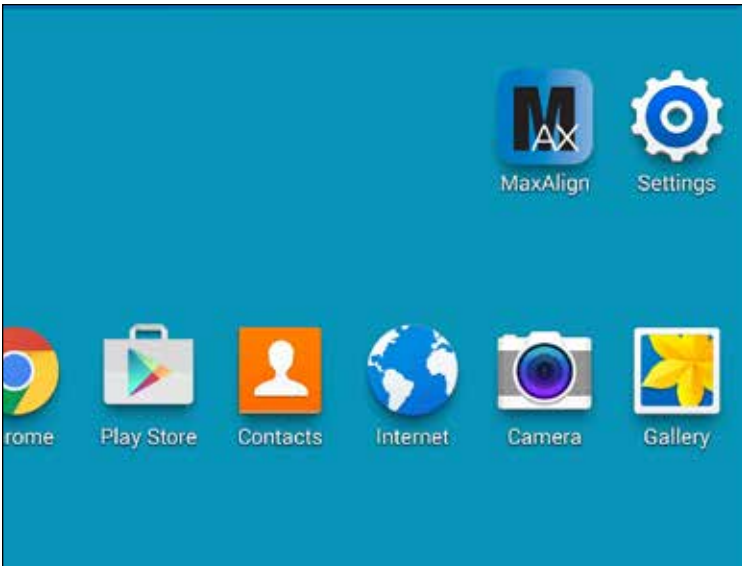Near Tolerance of 1
Best Tolerance of 0.5.

## Force Capture

- The Force Capture button can be used to automatically take a photo when the tablet is not level.

## Patient Setup

- Launch MAX app on tablet.

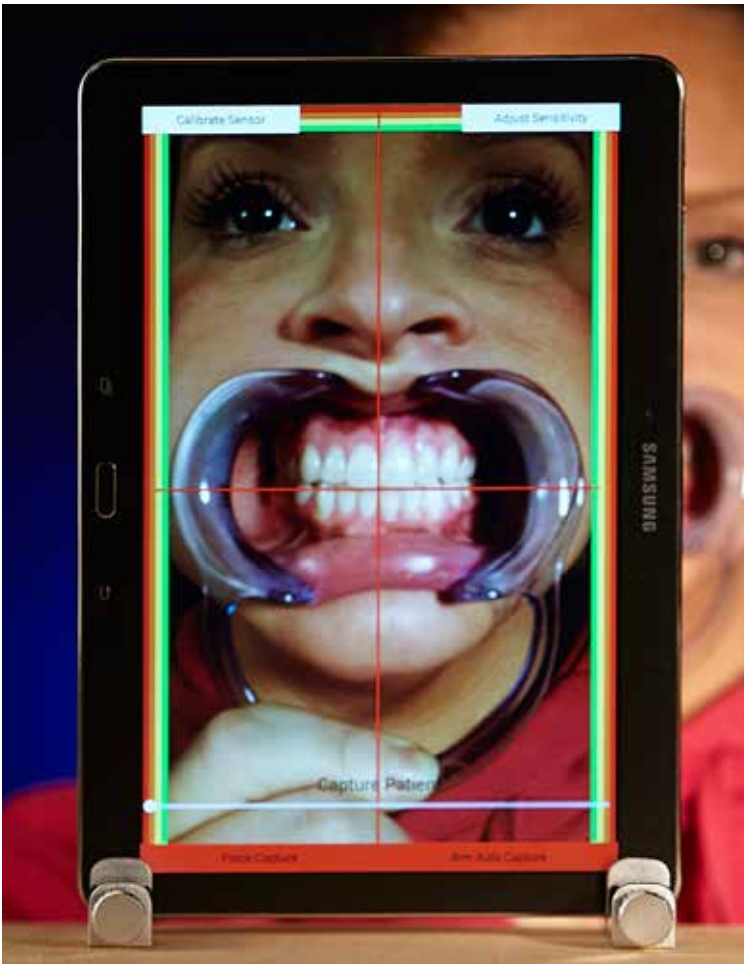- Create new patient record by clicking on "New Patient" button on top of screen.

- Enter patient's name and click on OK.

☑ **TIP:**

Keep HIPPA compliance requirements in mind when naming patient files.

## Doctor Screen 1

Use doctor screen 1 to take a photo of the patient. Doctor screen 1 shows both a live view of the patient and the eyes of a skull template.

- Ensure the tablet is vertical and align the camera by

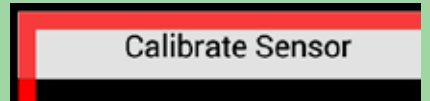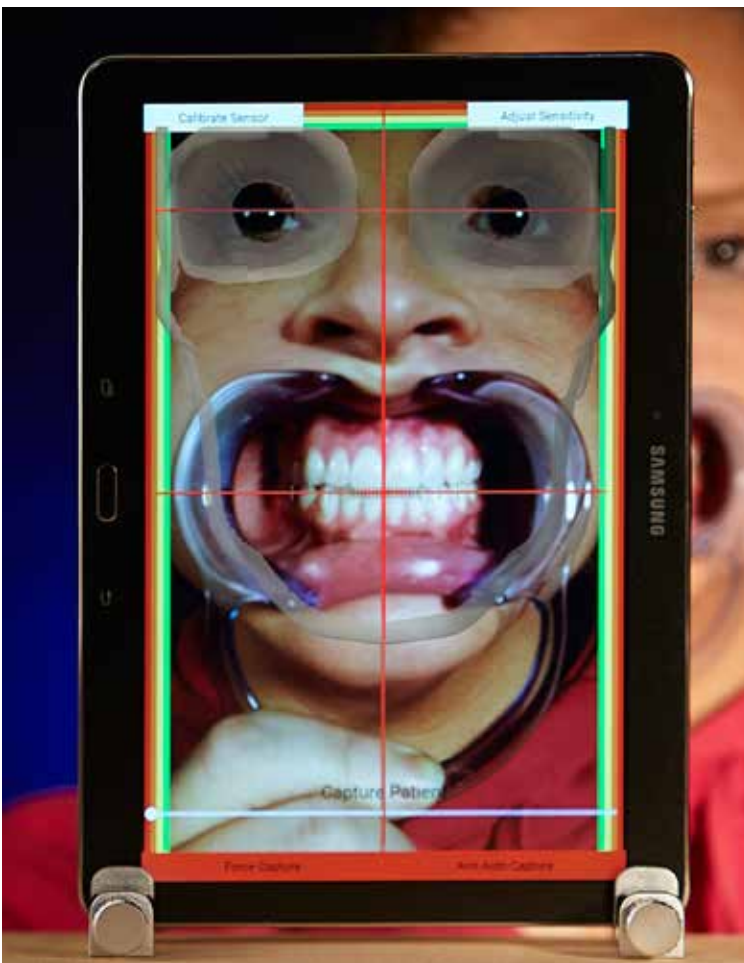 moving the tablet until a green box appears around the inner screen.



**TIP:**

The Calibrate Sensor Button automatically recalibrates the orange, yellow, and green bounding boxes. This should be done once the tablet has been placed in the stand and manually calibrated.



- Set the tablet parallel to the patient's face approx. 8 – 10 inches away.

**TIP:**

Moving the blue capture bar to the right enhances the skull template and moving the blue bar to the left enhances the patient image.



**TIPS:**

- Having the patient use retractors helps enhance the photo.
- Placement of the patient's eyes in the skull will give you the correct distance to the patient.
- If the tablet is not parallel to the patient, the horizontal cant may not be captured accurately.
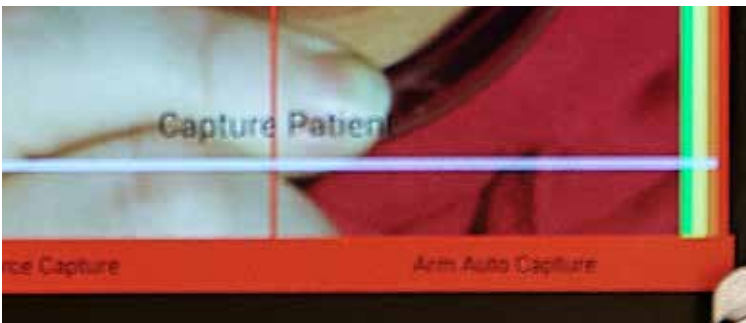
## Doctor Screen 1 (cont.)

- Center the patient's facial midline using the red vertical line while positioning the central incisors on the horizontal lines on screen.

**✓ TIP:**
The placement of central incisors horizontal line can be corrected on Doctor Screen 2.



- Click on "Arm Auto Capture" when ready to take patient's photo.
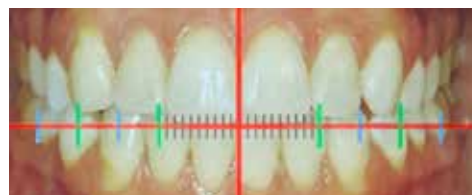
**✓ TIP:**
Arm Auto Capture will count down from 2 before taking photo.



## Doctor Screen 2

Use Doctor Screen 2 to adjust the width of the patient's central incisors in the photo to match the actual size of the patient.

Doctor Screen 2 shows both the patient photo and a template of the centrals with 1 mm black lines, 5 mm blue lines, and 10 mm green lines.
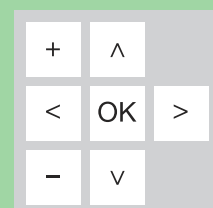


Increase or decrease the size of photo to match the actual size of patient's central incisors.

**✓ TIPS:**
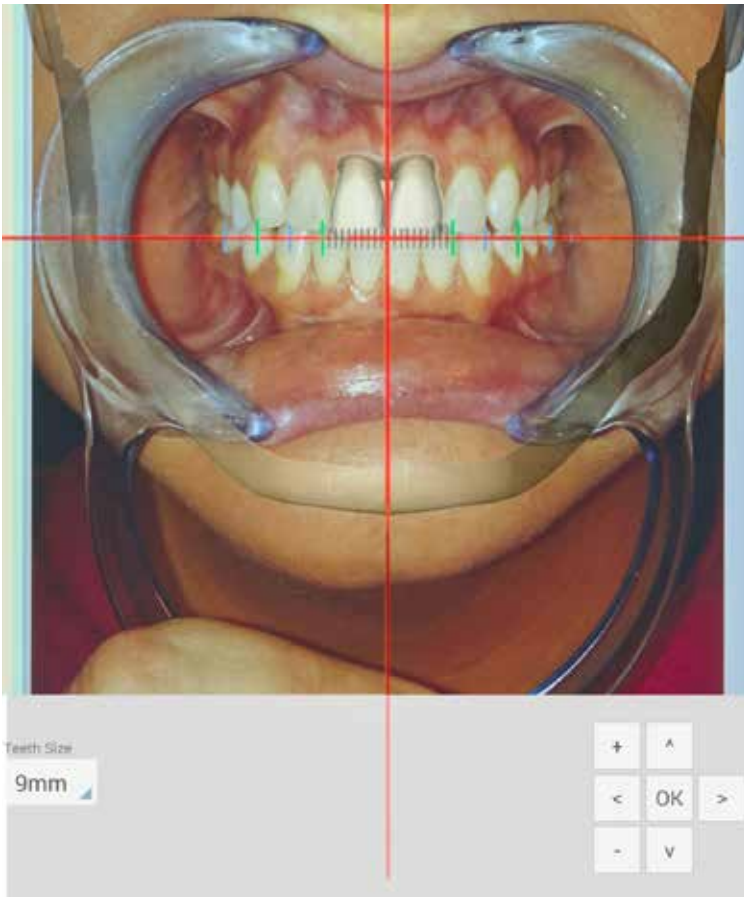
- The + / - boxes increase and decrease the patient's photo size, and arrows move the photo left, right, up, and down.

| + | ∧ | |
|---|---|---|
| < | OK | > |
| − | ∨ | |

You can also put your finger on the photo and drag it into position.

- Once you have correctly sized the central incisors, move the photo to line up the facial midline and horizontal plane.
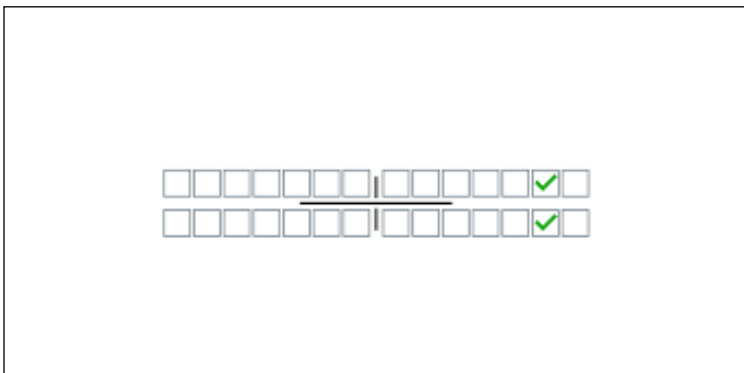
## Doctor Screen 2 (cont.)

- Use the dropdown in the bottom left corner to compare the patient's central incisors with teeth in template.

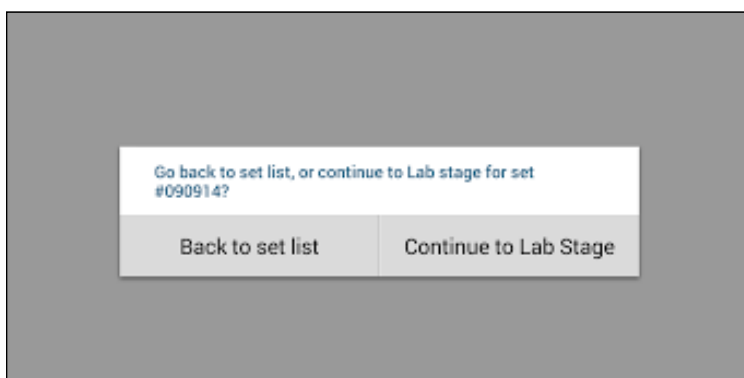- Press OK to save photo.



**TIP:**

Use the blue capture bar to switch between photo and template.



## Doctor Screen 3

Use doctor screen 3 to document first point of contact.

- Push on each box to show which teeth are in contact.

- Press SAVE to save data.

## Email Files for Mounting

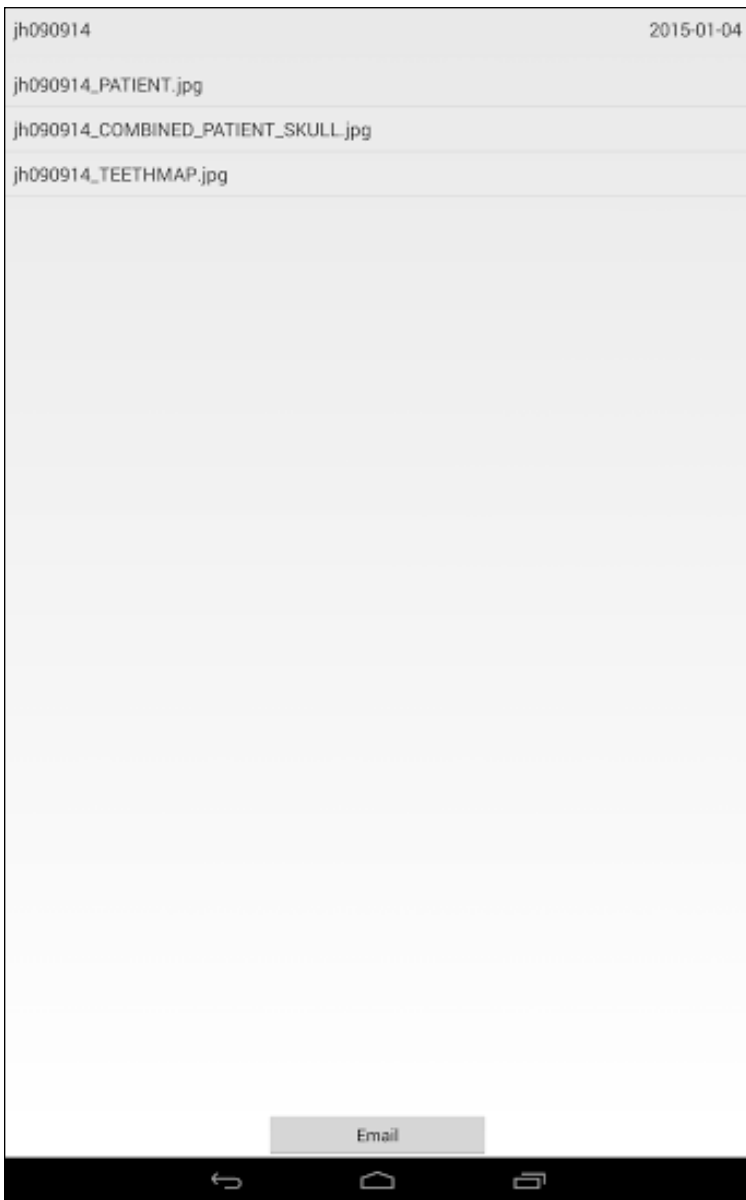- Press "Back to set list" to go to the main menu.



Go back to set list, or continue to Lab stage for set #090914?

| Back to set list | Continue to Lab Stage |

- Click on patient's name within app.

**TIP:**

Green color besides name means record is completed.

jh090914                                    2015-01-04

jh090914_PATIENT.jpg

jh090914_COMBINED_PATIENT_SKULL.jpg

jh090914_TEETHMAP.jpg

Email

## Email Files for Mounting (cont.)

- Click "Email" button at bottom of screen.

Send with:

Add to Dropbox    Bluetooth    Drive    Email

Gmail    Wi-Fi Direct
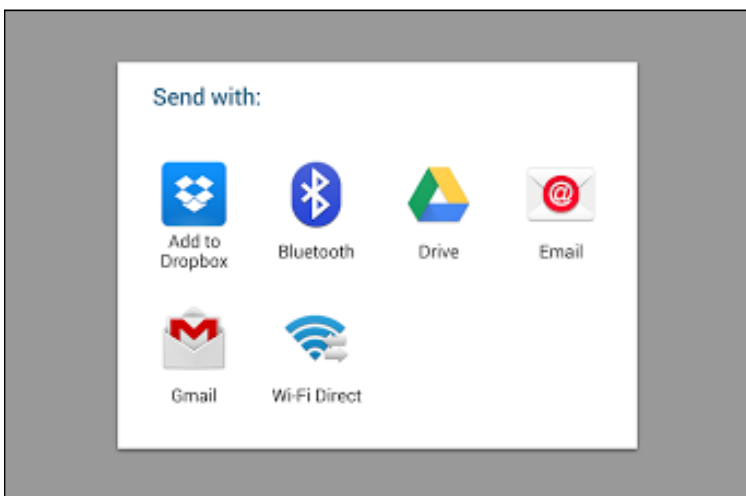
- Choose email application to send email.

- Enter email address to send images.

- Send email.

- To save images in patient files on your desktop, email the images to yourself. Save the attachment in the email to the desktop. This file will have a .vfb extension. Once this file is saved on your desktop, change the .vfb extension to a .zip extenstion. The file should change to a folder containing your patient files saved as .jpg images.
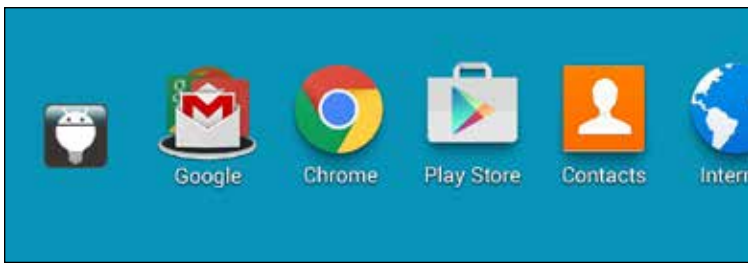
## Receive emails

- Open email with photos and save with Max option.



- Launch MAX app on tablet.



- Beside the patient's name, push the left red box under Lab.



## Lab Screen 1

Use lab screen 1 to position the maxillary model on the LabStand.

Lab screen 1 shows both the patient photo and a live view of the model on the stand.

- Ensure the tablet is vertical and align the camera by moving the tablet until a green box appears around the inner screen. Orange and yellow boxes will appear as you get close to correct alignment.



**TIP:**

- Moving the blue capture bar to the right enhances the patient photo and moving the blue bar to the left enhances the live view of model.



- Setting the blue capture bar approximately 2/3 to the right will allow you to see both the patient photo and live models.

## Lab Screen 1 (cont.)

- Set the model on the stand with the central incisors placed on the line etched on the front of the stand.



Adjust the model on the stand to match the patient's image.



- Press "Auto Capture" to take the photo of the model.





**TIP:**
This line will position the model at Bonwill.

**TIPS:**

- The stand tips 20° in all directions. Use the rotation of the stand to position the model until only fine tuning is needed.

- Turn the wheel to raise or lower the stand for fine tuning.

- Watch for shadows between the patient photo and live model.

- Use the blue and green vertical lines to compare teeth positions between the two images.

- You may need to use putty or impression material to create a base if the model does not sit flat.
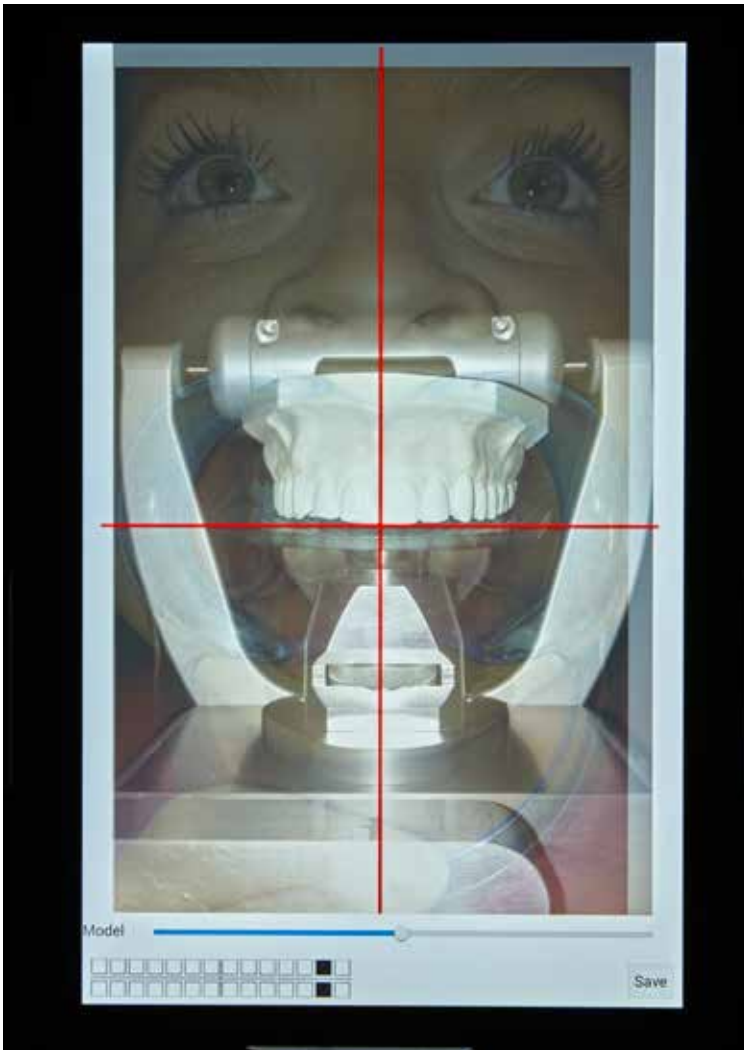
## Lab Screen 2

Use lab screen 2 for a final comparison of the patient photo and model photo before mounting.

You will see both the patient photo and lab photo on this screen.

- Using the blue capture bars, ensure the position of the models is the same between the patient photo and model photo.

- As you are viewing two photos, you can use your finger to zoom in on either photo.
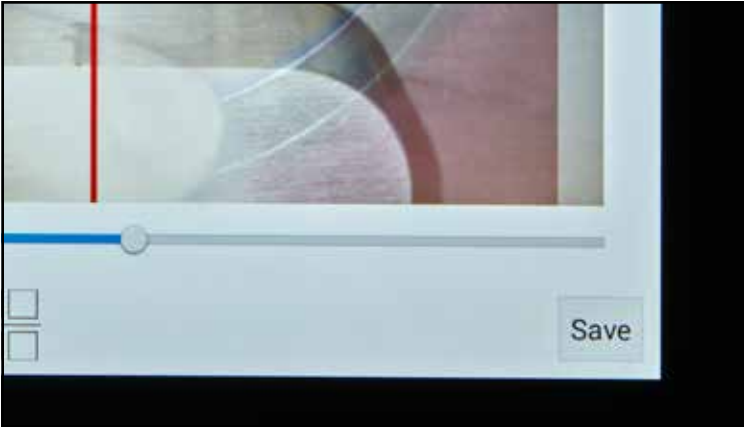
**TIP:**

If you want to change the position of the model, hit the back button on the tablet and it will return you to lab screen 1.
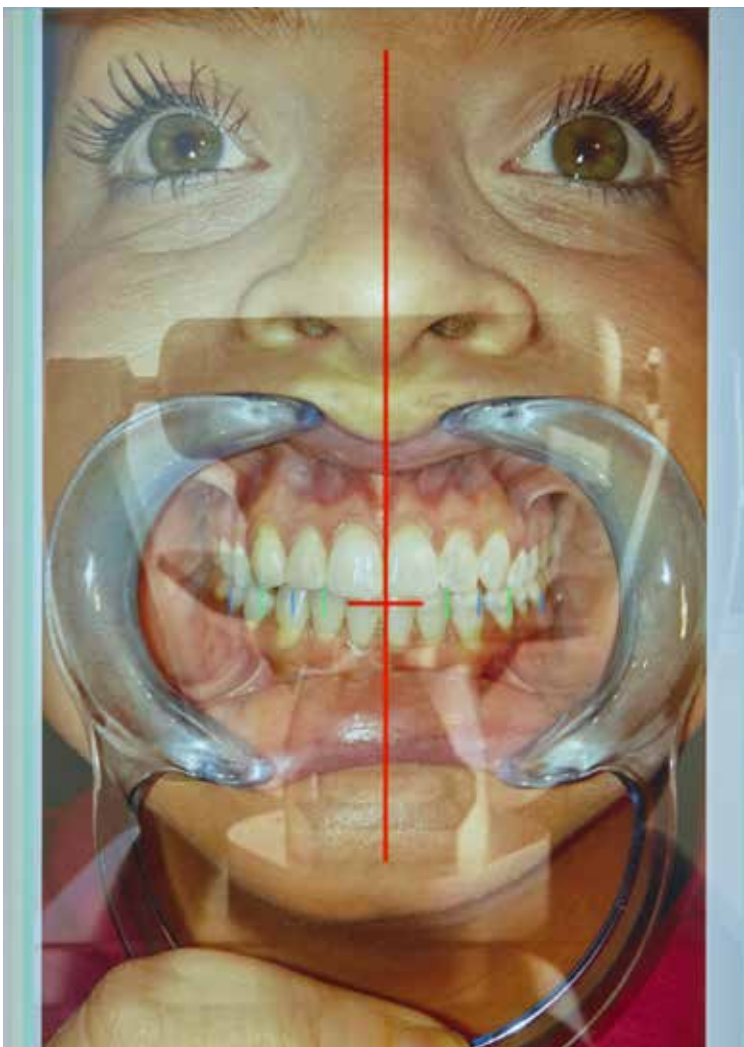
## Lab Screen 2 (cont.)

- Click the "Save" button once you are satisfied with the position of the model.

## Mounting the Model

- Put the applicable mounting plate on the upper member of LabStand.
- Add a small pillar of cone shaped mounting stone on model to attach to mounting plate. Once the stone has hardened, add additional stone for a finished look for your model.



**TIPS:**

- Push the locating pins up if using the Denar Mark 300 series articulators.
- Push the locating pins down if using other Denar, Hanau, or Whip Mix articulators.
- Use spacer washer between mounting plate and upper member of LabStand if using Whip Mix articulator.
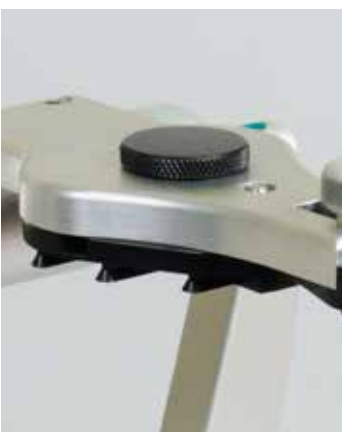
## Mark 300 Series

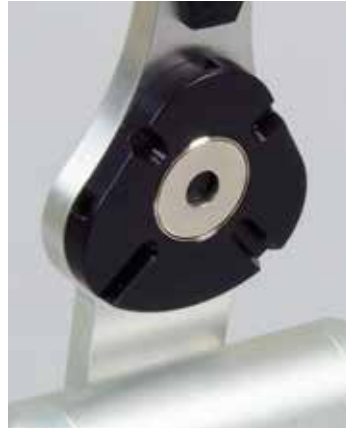- Place the magnetic mounting plate on the upper member.



**TIP:**

If you need to replace a locating pin, push it up through the bottom of the upper member with the two stripes on the pin towards the top.

## Denar/Hanau Screw Type

- Ensure the locating pins are down.
- Hold the Mounting Plate to the Upper Member and tighten the black Thumb Screw.

## Denar/Hanau Magnetic Converter

- Ensure the locating pins are down.
- Hold the Converter Plate to the Upper Member and tighten the black Thumb Screw.
- Use the magnets to attach the Mounting Plate to the Converter Plate.

## Whip Mix Screw Type

- Ensure the locating pins are down. Position spacer over locating pins.
- Hold the Mounting Plate to the Upper Member and tighten the silver Thumb Screw.

## Whip Mix Magnetic

- Ensure the locating pins are down. Position spacer over locating pins.
- Insert magnet holder in upper member.
- Attach white magnetic mounting plate to magnet holder using locating pins for placement.

**TIP:**

Spacer is necessary for both types of Whip Mix mounting plate. Position spacer as shown before installing plates. Spacer is held in place by magnet in upper member.
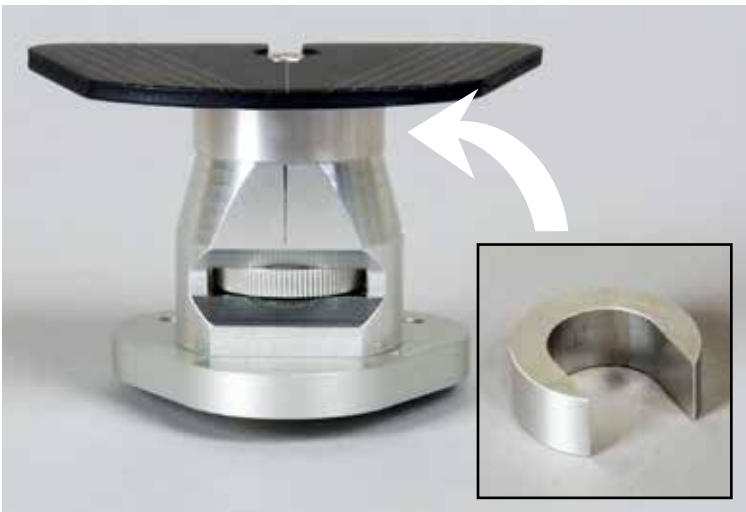
## Lab Stand Setup

- To place tablet in Lab Stand, pull the middle black Thumb Screw of the stand to open the stand frame for easy insertion of the tablet.

**TIP:**

Disposable plastic sleeves to protect the tablet are available through CrossTex.



## Calibration

- Insert the C Washer below the Flat Table and use the Thumb Wheel to tighten into place.

    **Note:** The C Washer can be inserted in any direction and is used to position the Flat Table so it is level.

**TIP:**

The C washer is used to ensure the stand is flat and in the center of the tablet lens.
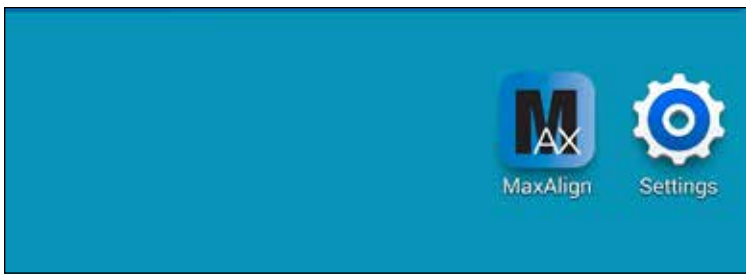


- Mount the Occlusal Stand into the base of the Lab Stand.
- Flip the Upper Member up and back so it is out of the way.

**TIP:**

Make sure the Lab Stand sits securely on your working surface. There are two holes designed for screwing the Lab Stand to your working surface if desired.
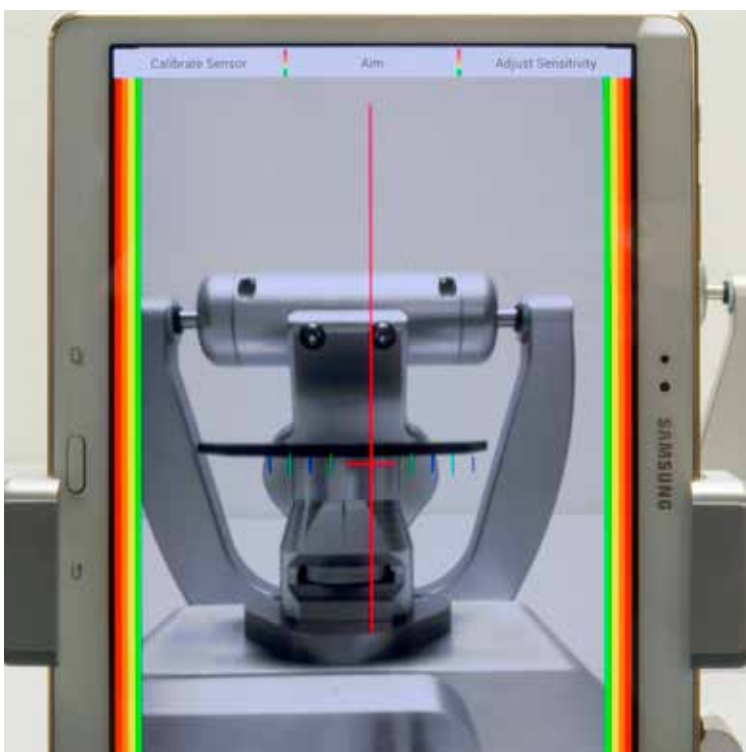
## Calibration (cont.)

- Launch MAX app on tablet.



- Go to Lab Screen 1 by pressing the left red box under lab beside the patient's name.
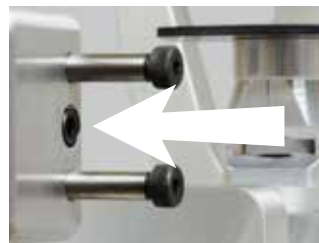


- Insert the provided 5/32 hex wrench into the right of the tablet stand to adjust the tablet horizontally until the vertical red line is lined up with the vertical zero line on the occlusal stand.
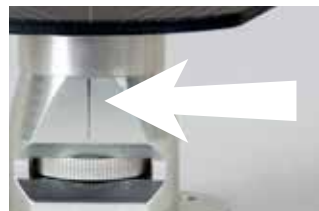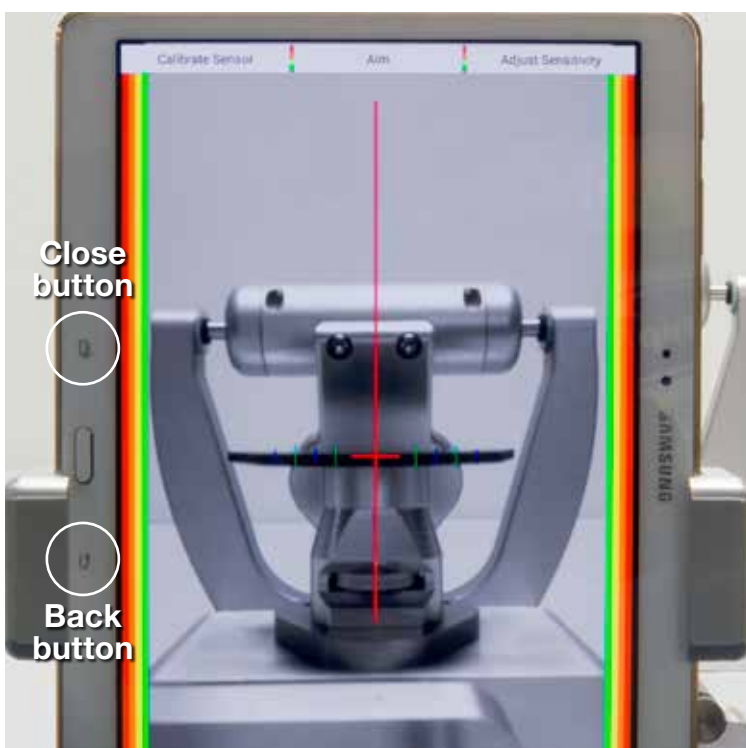


**TIP:**
Keep tension off the left side of the tablet holder when adjusting stand horizontally.



Horizontal adjustment set screw



Zero line

- Insert the hex wrench into the bottom of the tablet stand to adjust the tablet vertically until the horizontal red line is lined up with the top of the Flat Table.

- Verify the tablet is stable within the stand; it should not move.

- Remove and save the C Washer.

- Back out of the app by pressing the back button.

- Close app by pressing the close button.

- The tablet and stand are now calibrated and ready for use.

**Close button**

**Back button**