

# EWOO Picasso Trio Scanning Protocol



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# Scanning Protocol for the EWOO Picasso Trio

## For Use with iDent

### General

This protocol is written specifically for users of EWOO Picasso Trio CBCT scanner.

- Patient Scan – with the appliance firmly fixed in the patient’s mouth, as instructed by the dentist.
- Dual Jaw Scans (where necessary): mandible and maxilla must be scanned separately.
- Radiographic Appliance Scan – appliance alone in the Styrofoam.
- Remove metallic objects such as jewelry and metal prostheses.

### iDent Scan Parameters

Use the following machine settings:

Settings for Patient with Appliance:

- Volume: 512x512 (or 602x602)
- Resolution : 0.24 (or 0.2)
- Scan Parameter: to 85 kVp / 5 mA
- Scan mode: Hi-Res
- Scan Height: select Mandible or Maxilla as needed

Settings for Appliance scan:

- Volume: 512x512 (or 602x602)
- Resolution : 0.24 (or 0.2)
- Scan Parameter: to 50 kVp / 4.5 mA
- Scan mode: Hi-Res
- Scan Height: select Mandible or Maxilla as needed
- Ensure the full appliance is within the FOV

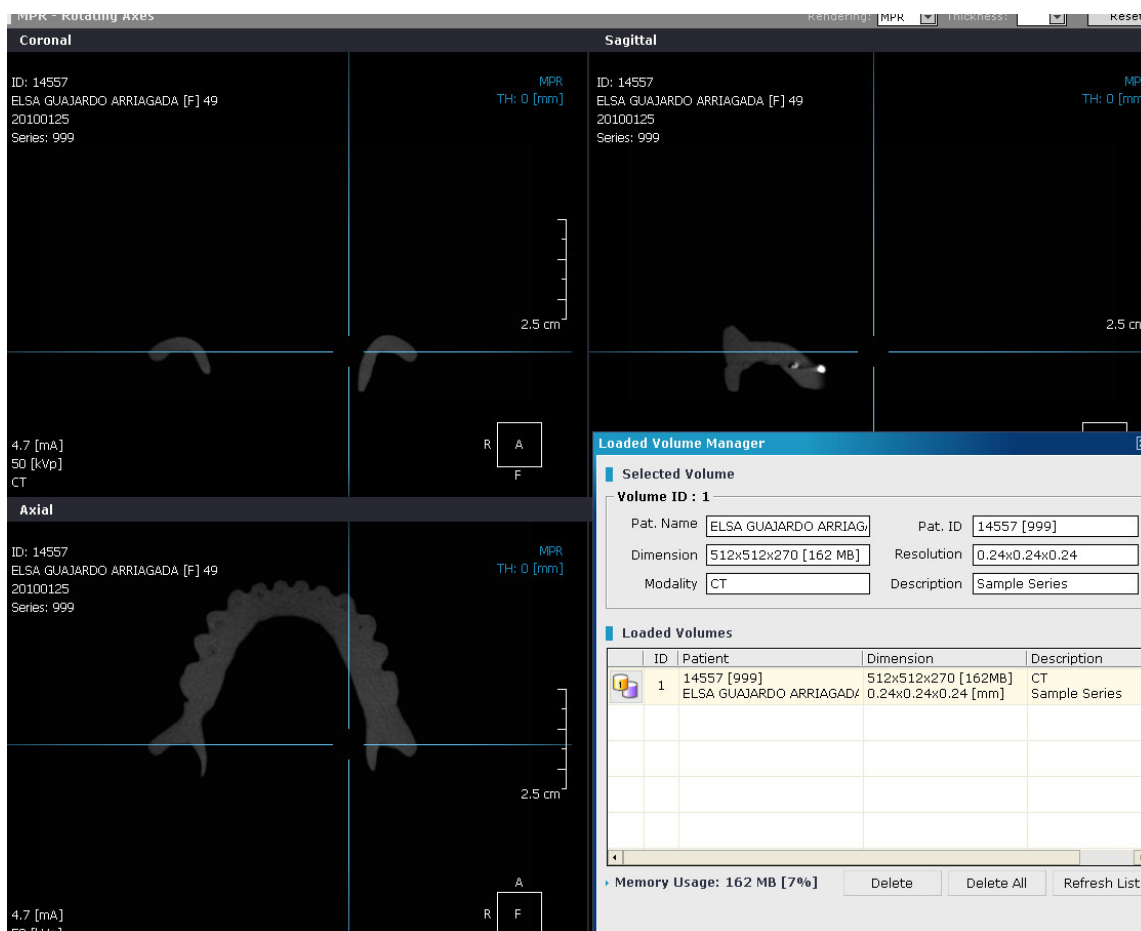


Figure 1

## Patient Preparation, Positioning and Scanning

- a) **Appliance Positioning:** Ensure that the appliance is fixed and stable in the patient's mouth. The technologist should not perform the scan if the appliance does not fit easily and soundly in the patient's jaw – contact the dentist.
- b) **Patient Positioning:** The patient and the appliance should be motionless during the scanning procedure. In order to ensure this, the patient's head should be firmly attached to the Head Holder. If the lower jaw (mandible) is to be scanned, instruct the patient to bite an object such as a gauze pad.

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The patient's head should be tilted so as to minimize the interference of the jaw and teeth images with artifacts stemming from metal fillings. A first positioning (before the Pilot scan) should be with the occlusal plane parallel to the scanner light marker. If the pilot scan reveals that the angulation is wrong, then further head tilting should be carried out. Each time that the patient's head is re-positioned, attachment to the head holder should be checked.

Any metal object such as jewelry should be removed from the scanned region.

- c) **Patient Scanning:** The region to be scanned should include all the relevant jaw volume, the appliance and the teeth. The horizontal marker line should be in center of the region of interest, in order not to miss relevant volume due to accidental patient motion.

Prior to the scan, the patient should be instructed not to swallow. The CT Technologist may wish to instruct the patient to swallow several times before starting the CT scan.

## The Appliance Positioning and Scanning

- a) **Positioning:** The appliance should be placed in the Styrofoam (Polystyrene) box, in the same orientation as scanned in the patient's mouth. The appliance should be positioned similarly to the patient's head position during the patient scan, including the distance to the center of the FOV, the angle and the orientation.
- b) **Appliance Stability:** Ensure the stability of the appliance



**Never** place the appliance in a vertical position.

Ensure that the appliance is scanned with no peripheral interference

## Data Export

Use the EzImplant software to export the data to the corresponding folders as described below.

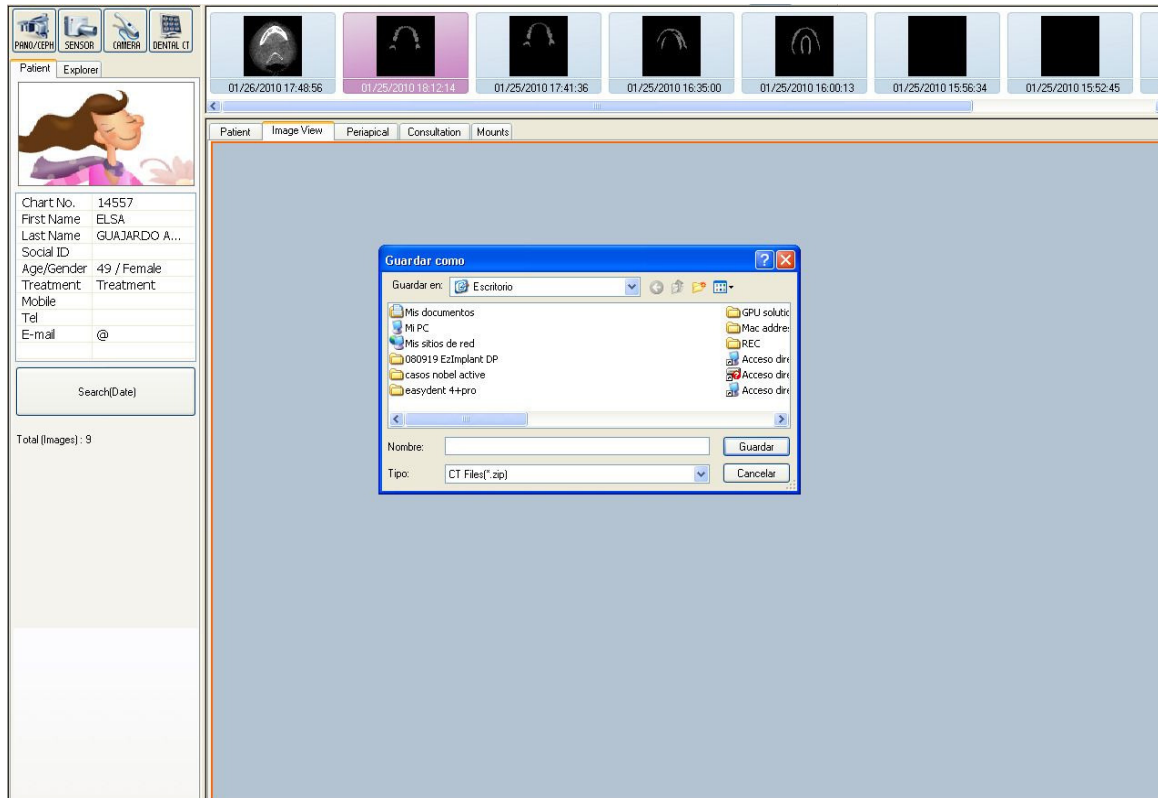


Figure 2

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## Data Saving

- a) Data for each jaw should be saved in **separate datasets (see below)**. The data for each template should correspond to the data of the patient.
- b) Each patient and template datasets should be copied to separate folder, compressed (right click on folder > send to compressed zipped folder).
- c) Send zipped file(s) to iDent partner via the internet (contact your iDent partner for upload information).

