

# PLEASE READ INSTRUCTIONS THOROUGHLY

When CT scan is complete, please return the CD-ROM and SCANNING APPLIANCE to:

Implant Solutions  
1000 Corporate Drive  
Marshfield, WI 54449

## Step 1: PATIENT PREPARATION

- 1.) Try in the scanning appliance to ensure proper fit. Scanning appliance must be seated fully.
- 2.) If you are completing the CT scan, have the patient lightly bite on cotton to separate the maxilla and mandible jaws.
- 3.) If you are NOT completing the CT scan, instruct the patient on how to wear the appliance properly.

## Step 2: CT SCAN

**Note:** The Position of the patient with the appliance in place, is critical to the success of the CT Scan.

Please make sure the (3) Titanium pins, located on the scanning appliance, are visible in the scan.

### Horizontal Machine

Scanning appliance in the patient's mouth will be perpendicular to the floor



### Vertical Machine

Scanning appliance in the patient's mouth will be parallel to the floor



## STEP 3: SCANNING

### Important Scan Parameters:

#### High resolution bone algorithm

- “Inner Ear”
- “Bone”
- “High”

#### Dynamic mode:

- Slices of 1mm to 1.5 mm if possible
- Feed if possible 1mm to 1.5 mm

#### Storing the scan parameter:

- Store picture dataset without raw data in DICOM format, uncompressed on CD-ROM
- If available, send a copy of patient’s CT transfer form

*Remember*, not all scanning centers are familiar with these techniques. It is important to work with the scanning center to ensure quality and necessary information is obtained from the CT image.

## STEP 4: FINAL CHECK LIST

- Fit scanning appliance to patient’s mouth, use cotton to separate the upper and lower jaw
- Position patient for appropriate CT Scan
  - Horizontal
  - Vertical
- Ensure three (3) Titanium Pins are visible in scan (one slice over is sufficient)
- Do not allow patient to move or swallow during CT scan**
- Upper and Lower jaw bone: Scanning window from orbital to point of chin
- Burn uncompressed DICOM Format picture data to CD-ROM and send to Implant Solutions, along with scanning appliance
- Please specify what implant manufacturer will be used

When the CT scan is complete, burn the uncompressed DICOM format data onto a CD-ROM.

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