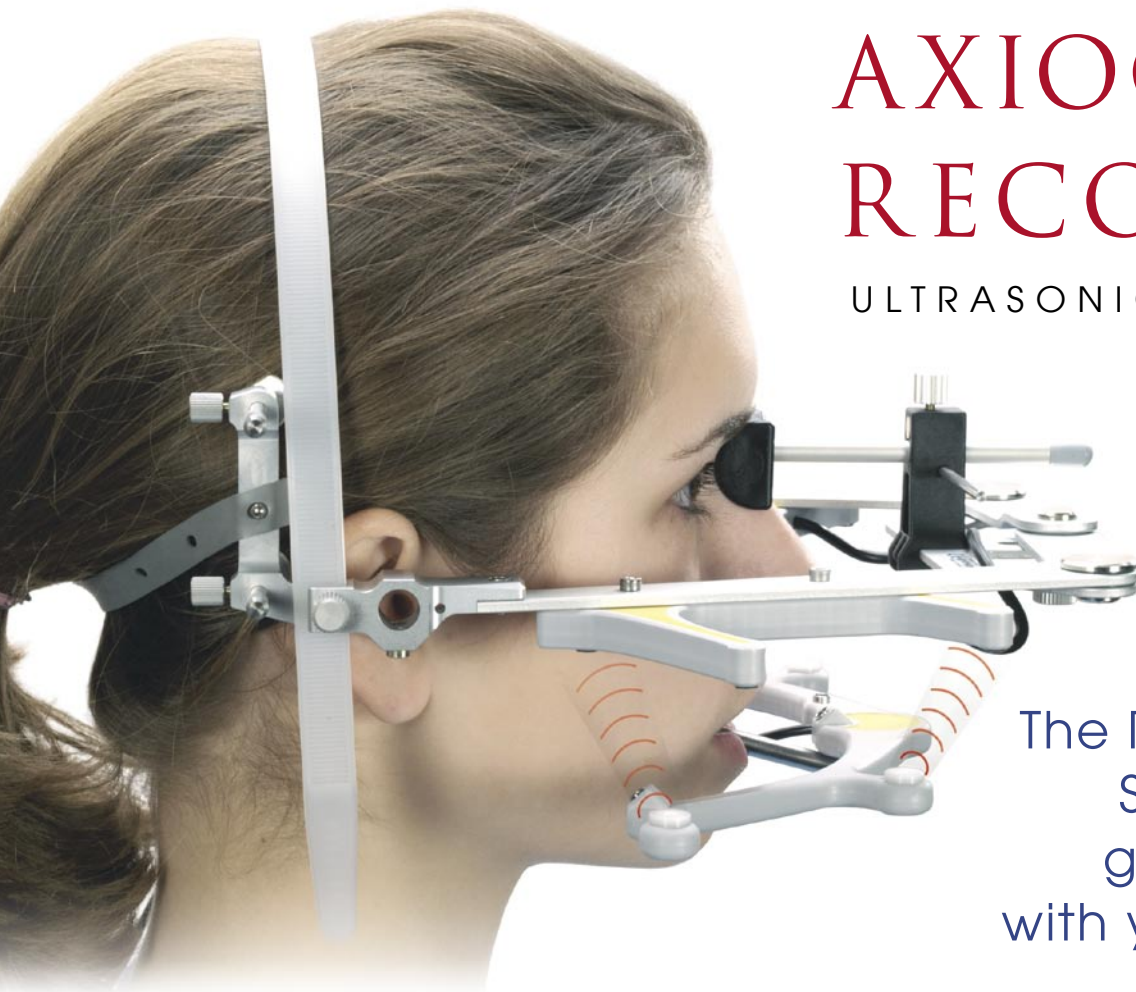


# AXIOQUICK® RECORDER

ULTRASONIC AXIOGRAPH®



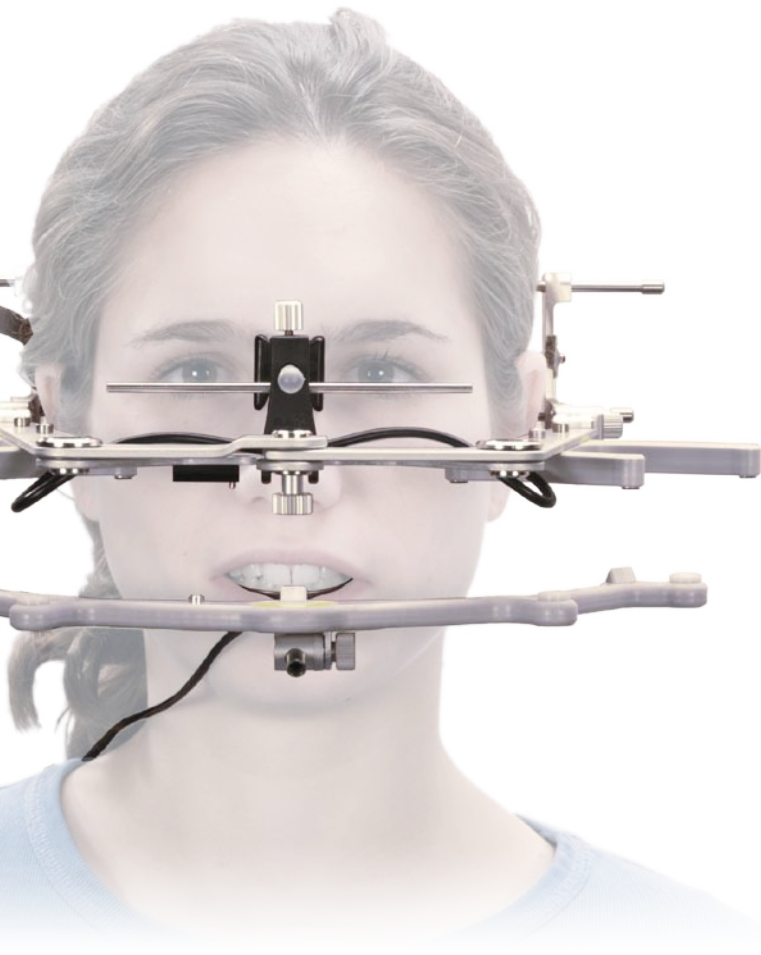
The Recording  
System  
growing  
with your needs

A new state of the art Ultrasonic Mandibular Movement Recording System which can be used to obtain, store, and analyze all functional 3D mandibular movements. In addition, you can receive data for the setting of any type of articulator up to and including the fully adjustable models. Also available as an option is an EMG recording system which can be used to analyze muscle activity during any mandibular movement recordings, ie. chewing, eccentric movement tooth contacts, etc.

The AXIOQUICK® Recorder System is a mandibular movement recording system that combines all recording systems into one that is accurate, quick, and easy to use. It can be used to obtain 3D pre-treatment information such as condyle movement pathways, chewing patterns, range of movement data, anterior guidance pathways, condyle positions related to tooth contacts, etc.

The AXIOQUICK® Recorder can be used in many areas of dental research, undergraduate and graduate dental school programs, every dental practice, and in the specialty prosthodontic practices.





Unique to the AXIOQUICK® Facebow/Recorder System is the special design and positioning protocol that is used to orient the upper AXIOQUICK® Facebow/Recorder to the patient. Published research has shown that the anatomic porion/orbital reference plane is parallel to the interpupillary line of the patient.

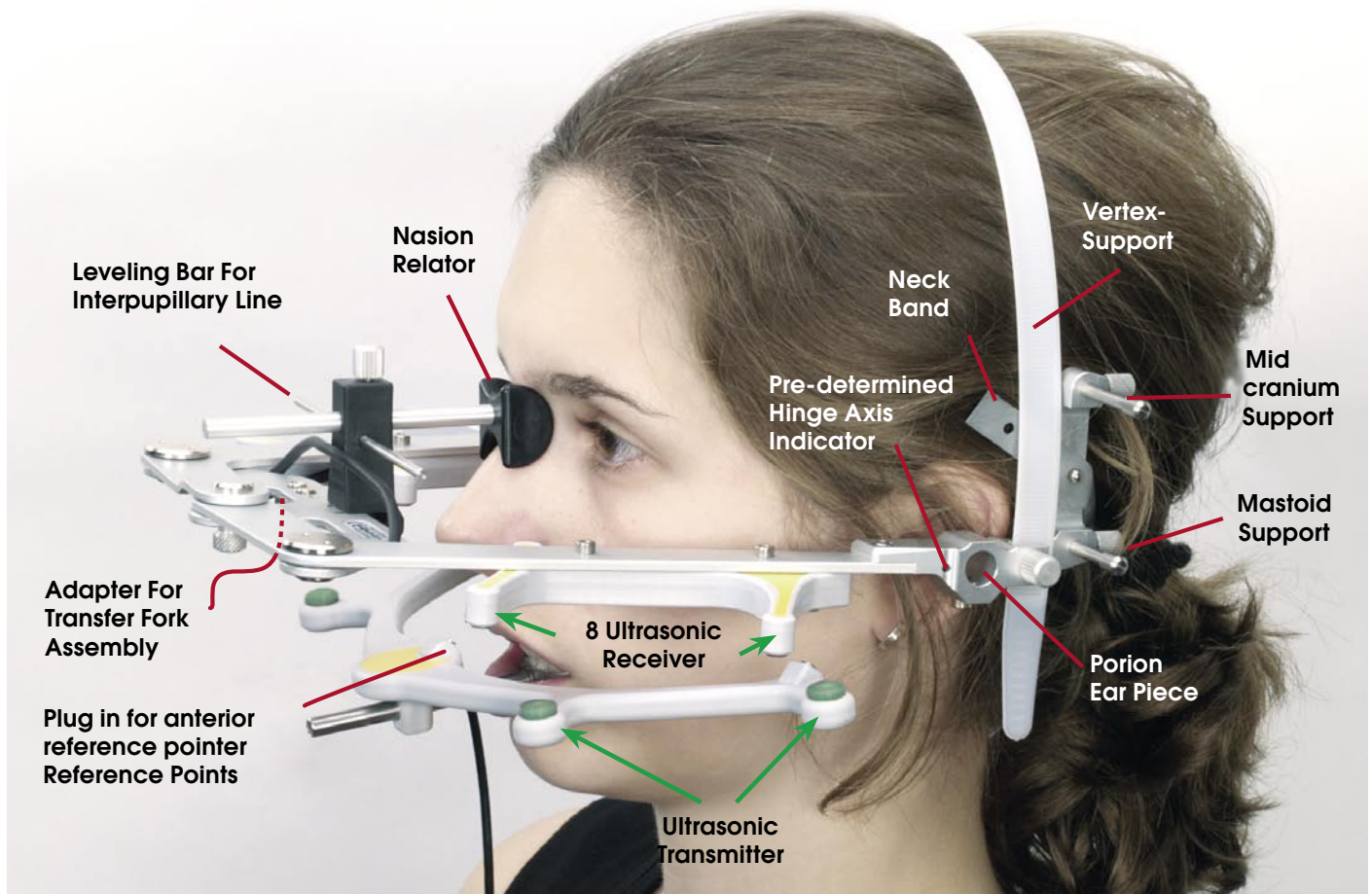
The end-result is that when you make an AXIOQUICK® Facebow Transfer using these reference points along with the single toggle non-torsion clamp on the transfer fork;

**You will have your upper cast mounted in the articulator correctly referenced to the interpupillary line and the cranium.**

In addition, you will be in the mid-sagittal plane, and related to the true mandibular rotation axis within 1.1 to 1.2 mm on the average patient.

**This makes the AXIOQUICK® Facebow a true Cranial Related Facebow.**

However, if a determined mandibular rotation axis reference point is desired, the system is setup to accommodate those needs.



Recordings for each patient are stored under the patient's and the doctor's name. Data can be exported and imported very easily.

### Easy to use

The AXIOQUICK® Facebow/Recorder is aligned posteriorally, anteriorally, and held in position by the patient. The facebow transfer fork registration is made, removed, and then set aside. Either a tray clutch or paraocclusal clutch is attached to the patient's lower teeth and the lower AXIOQUICK® Recorder bow is attached to the clutch. If desired, the true hinge axis can be determined by making a simple opening and closing movement of 8 to 10 mm or you can use the pre-calculated hinge axis already built into the system.

### Articulator Data

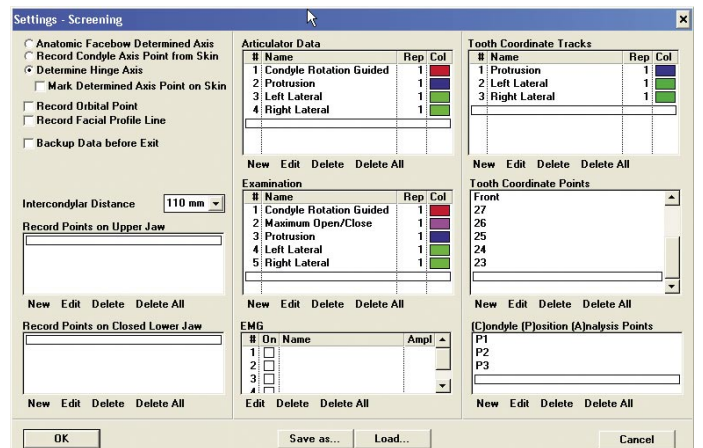
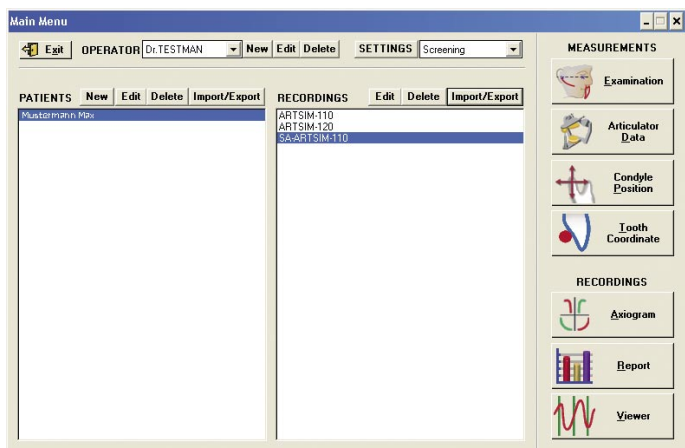
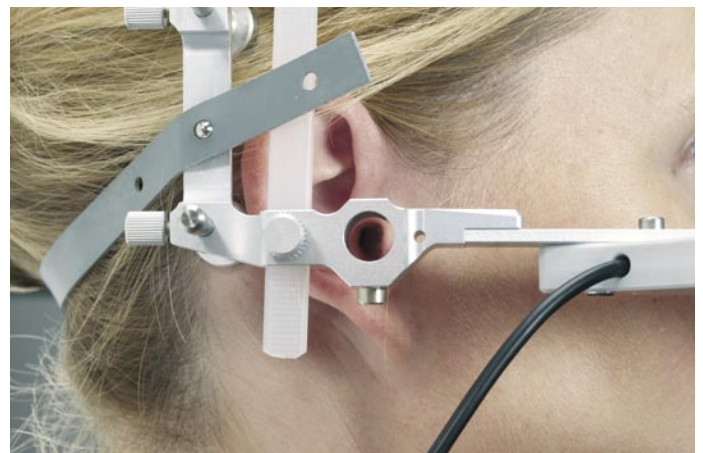
Make a protrusive, right and left lateral movement. The recording procedure is accomplished in minutes. Articulator settings can be obtained by going to the articulator report in your computer.

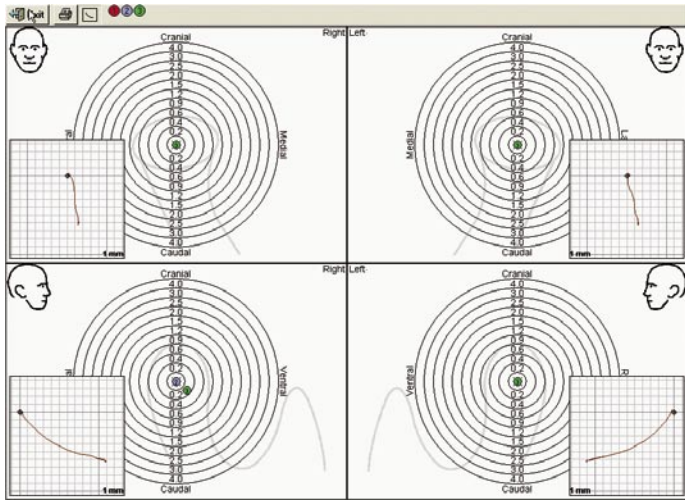
### Axiogram

This is a graphic representation of the recordings. All recordings can be reproduced in realtime or by key movement choice. Recordings can be output to any printer. In addition, you can make direct analysis and angular measurements for your own personal selection and use in the articulator.

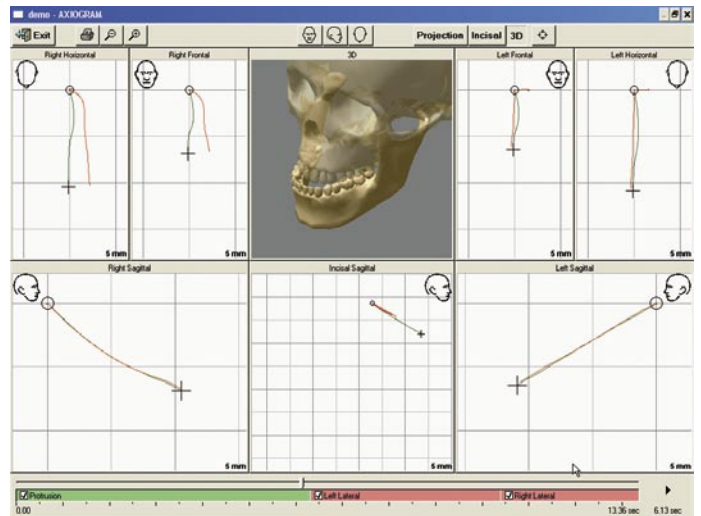
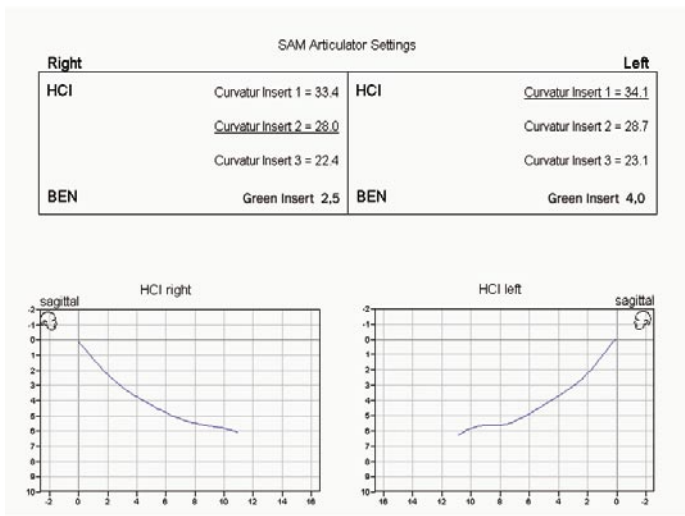
### Report

You can view the condylar inclination, Bennett Guidance, and anterior guidance pathways in all 3 planes. In addition, recommended curvature selections are made for both Condylar Pathways and Bennett Guidance inserts plus anterior guidance information for anterior incisal table. Recordings can be overlayed for comparison on the report.





The CPA program (condyle position analysis) program allows the comparison of intra-oral tooth contact mandibular positions as they relate to the centric relation position of the patient in 0.1 mm increments. This is the true intercuspal relationship of the teeth in contrast to the trend analysis method used with articulator mounted casts.



## SPECIFICATIONS:

- Light weight recording bow
- Eight ultrasonic receivers
- 50 recordings per second
- 0.01mm recording accuracy
- Windows 2000, XP - USB 2.0
- Standard Printer Output

## ADDITIONALS FEATURES:

- one year free software updates
- 3D- CT-skull animation
- 3D- Bonwill-triangle animation
- Tray or paraocclusal clutch
- EMG four channel (optional)
- AXIOGRAPH® Facebow (optional)

## Literature:

- Bergstrom G.** On the reproduction of dental articulation by means of articulators, a kinematic investigation. Acta Odontol Scan 1950;9 (suppl 4):125-141
- Baldauf A, Mack H, Wirth CG.** Bestimmung der Scharnierachse mittels des äußeren Gehörgangs. Info Orthod Kieferorthop 1996;28:459-465
- Henk F.** Ergebnisse der modifizierten Anlagetechnik mit dem Anatomischen Transferbogen. Vortrag 1.12.2001,34. Jahrestagung der Arbeitsgemeinschaft für Funktionslehre in der Deutschen Gesellschaft für Zahn-, Mund- und Kieferheilkunde, Bad Homburg 2001
- Nagy WW, Smithy TJ, Wirth CG.** Accuracy of a predetermined transverse horizontal mandibular axis point. J Prosthet Dent 2002;87:387-394

