

# System2000™

Rotational Vestibular Chair



**OBJECTIVE DOCUMENTATION OF VESTIBULAR AND BALANCE FUNCTION IS CRITICAL TO THE CORRECT DIAGNOSIS OF THE BALANCE DISORDER PATIENT. ROTATIONAL CHAIR TESTING AIDS IN THE IDENTIFICATION OF PATHOLOGIES NOT APPARENT WITH TYPICAL VNG/ENG TESTING PROTOCOLS WHEN THE VOR NEEDS TO BE PRECISELY MEASURED AT FREQUENCIES ABOVE THOSE OFFERED BY CALORIC TESTING.**

## To Preserve and Improve Balance

### VISUALEYES™ VNG

Utilizing VisualEyes on the rotational chair increases the efficiency and accuracy of eye movement recording. The see-through camera configuration (shown) provides a full field of view allowing the patient to experience the full field stimuli to the greatest extent possible.



The standard system includes the chair with 60 ft-lbs of torque, controller, dark room enclosure; ceiling mounted optokinetic drum and x-axis laser projector. System 2000 is capable of testing ocular motor function and the VOR from 0.01 Hz to 0.64 Hz at 60 deg/sec and step velocities up to 300 deg/sec with accelerations of 100 deg/sec/sec. Nystagmus tests can be added to any chair system to allow a full VNG test protocol to be completed in the same room as the VOR and ocular motor studies.

### SYSTEM 2000 MICRO-CENTRIFUGE

The micro-centrifuge system includes all the testing capabilities of the standard system. In addition, unique testing protocols are included for testing heavier patients at frequencies up to 0.64Hz and velocities up to 350 deg/sec. The system comes standard with the following features:

- X-Y axis laser projector (above on chair)
- Micro-centrifuge (below left)
- Subjective Visual Vertical (SVV) (below right)



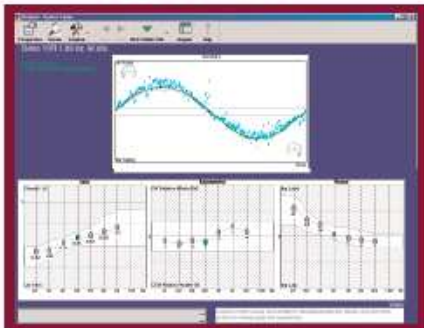
The SVV dynamically examines and quantifies the patients' perception of vertical to assess otolith function.





## To Preserve and Improve Balance

### ANALYSIS AND REPORTS



Slow phase eye velocities of sinusoidal tests are automatically overlaid with a "best fit curve". For reference, test results are also shown on the VOR gain, symmetry and phase graphs. High/low threshold boundaries are indicated by the shaded regions.



**MICROMEDICAL'S SPECTRUM SOFTWARE ALLOWS UNIQUE INTEGRATION AMONG ALL MICROMEDICAL SYSTEMS OPTIMIZING STAFF EFFICIENCY, CONTINUITY OF PATIENT DATA AND REPORT CONSISTENCY. SPECTRUM FOR VISUALEYES IS CLEVERLY DESIGNED TO MAXIMIZE ACCURACY AND FLEXIBILITY THROUGHOUT THE ENTIRE VESTIBULAR TESTING PROTOCOL. FOR EXAMPLE, CALIBRATION OF THE EYE MOVEMENT CAN BE ACHIEVED EITHER THROUGH THE STIMULUS OR VIA A ONE-CLICK IRIS CALIBRATION PROCEDURE. AN INTEGRAL FEATURE OF THE SOFTWARE IS EYEMAX™ DIGITAL EYE MOVEMENT RECORDING.**

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### BALANCE CENTERS & FALL PREVENTION CLINICS SHOULD ALSO ACQUIRE:

- VISUALEYES™ VNG (Available in Midtower or Laptop)
- BALANCE QUEST™ computerized dynamic posturography
- VORTEQ® active head rotation VOR test
- DVA-Test™ dynamic visual acuity VOR test

### CUSTOMER CARE

Micromedical's knowledgeable staff is dedicated to assisting you and maximizing your investment by:

- Incorporating the latest advancements in computer technology into new systems on an ongoing basis
- Providing on-site installation and training
- Producing innovative hardware and software designs
- Providing technical, operational and interpretation assistance from Micromedical's support staff
- Sponsoring continuing education courses
- Including one year warranty on hardware
- Providing assistance with coding and billing issues
- Including one year of free software updates
- Providing Micromedical's educational Vestibular Update interactive CD

### SAFETY STANDARDS

System 2000 is designed to meet applicable medical standards worldwide.

- UL2601-1
- IEC 60601-1 patient safety standard

### HIPAA PRIVACY STANDARDS

Micromedical's Spectrum software is HIPAA ready, enabling healthcare providers or other covered entities to meet and maintain the confidentiality of patient medical information required by the Health Insurance Portability and Accountability Act of 1996.

Patient information can be de-identified for printed reports while the Windows XP® platform supplies the foundation for system security.



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