

VNG/ENG

"The Chartr Experience"



ICS Chartr 200



otometrics

MADSEN • AURICAL • ICS





The solution for quality care

ICS Chartr 200 provides you with a comprehensive, solution based on years of practical experience. We have worked closely with the leading balance experts to ensure the greatest possible ease of use and the most accurate test results.

VNG, ENG or both

The ICS Chartr 200 provides a comprehensive test battery for diagnosing a wide range of balance and dizziness disorders allowing you to care for your patient from diagnosis through treatment. Whether you choose Videonystagmography (VNG) or Electronystagmography (ENG), you will benefit from a complete, portable, easy-to-use system. Both VNG and ENG are primary diagnostic tools for investigating the source of a vestibular disorder.

VNG directly records and measures eye movements, and offers the following advantages:

- Ability to see the patient's eyes at all times
- Video recording of the eyes which assists with diagnosis
- No drift in the tracings
- Reduction of disposable supply cost

ENG (2 or 4 channel) measures eye movements by indirectly recording the cornea-retinal potential from the eyes and has the advantage of testing some patients who cannot be tested using VNG.

VNG and ENG complement each other assuring that the clinic does not have to turn away patients in need of vestibular testing. The Chartr 200 offers a shared database for VNG and ENG.

The industry leader

The "Chartr Experience" includes far more than just industry leading hardware and software. We view each ICS Chartr 200 customer as a partner in advanced vestibular testing. With the high-level training and support offered, our reputation as the industry leader is both earned and unmatched.

Superior Hardware

- Dedicated hardware assures a smooth stimulus presentation and accurate data collection
- Ranger on the lightbar ensures that the patient is always the right distance from the stimulus providing the clinician with on-going feedback of the patient's position
- Data collection is buffered in hardware giving the computer the freedom to perform real-time analysis of the data without lagging behind or dropping data points
- Integrated ICS irrigators offer ease of use and accuracy through automatic temperature switching

Integrated analysis developed by professionals

For more than 25 years, ENG/VNG systems developed by ICS have been synonymous with reliable data collection and quality. The Chartr software platform, first developed by thought leader Dr. Charles Stockwell and continuously refined by Dr. Kamran Barin, is the gold-standard in efficient work flow and data analysis.

VNG Recording Options

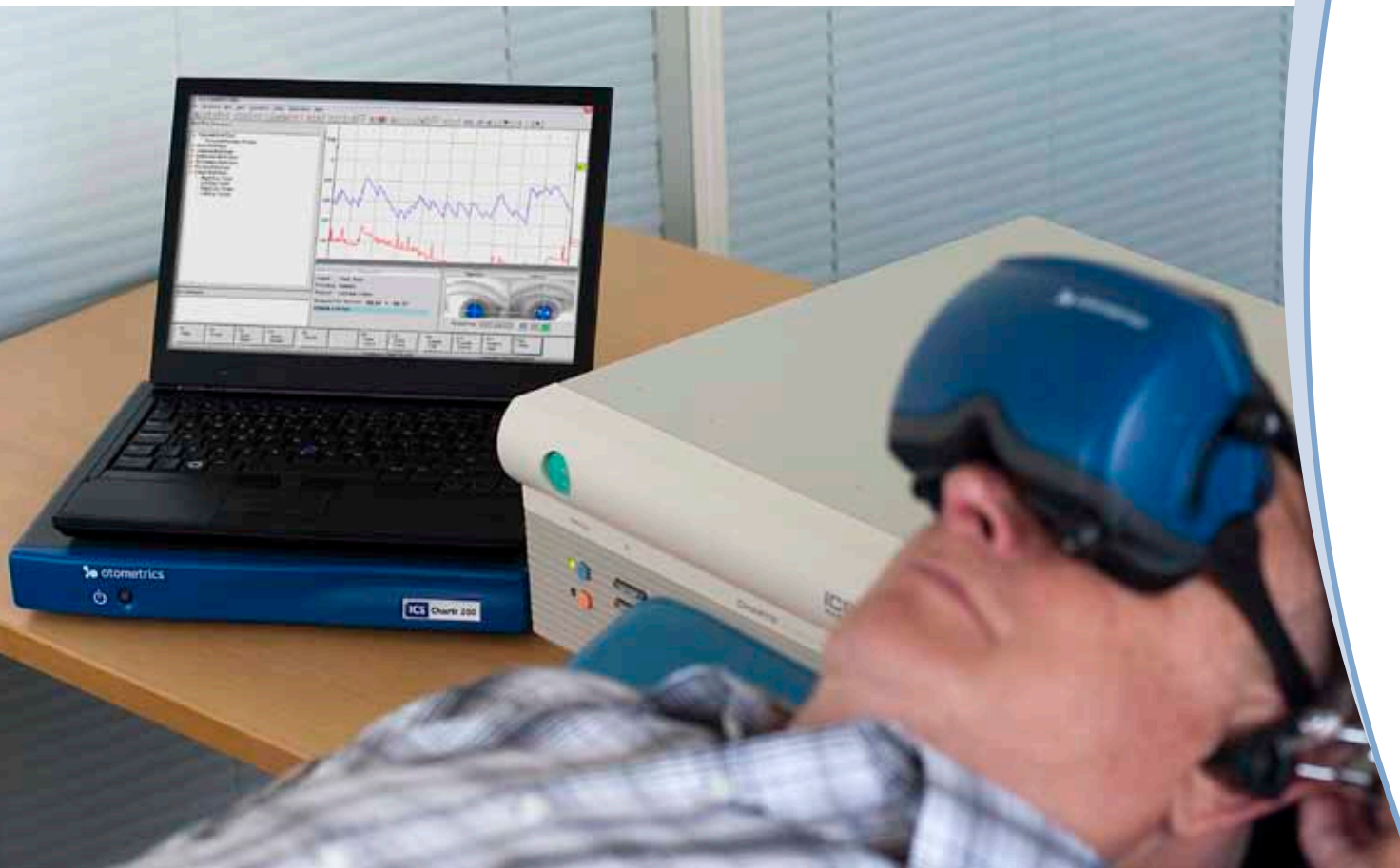
The VNG system offers several options for recording the patient's eye movements:

- For conjugates eye movements, the average movements of right and left eyes are recorded
- For disconjugate eye movements, independent movements of each eye are recorded simultaneously
- For special cases, monocular movements of the selected eye are recorded

All three options can be easily accessed using the binocular VG-40 goggles, 3 easy to use toolbar icons and test protocol menu.

Interpretation Assistant™

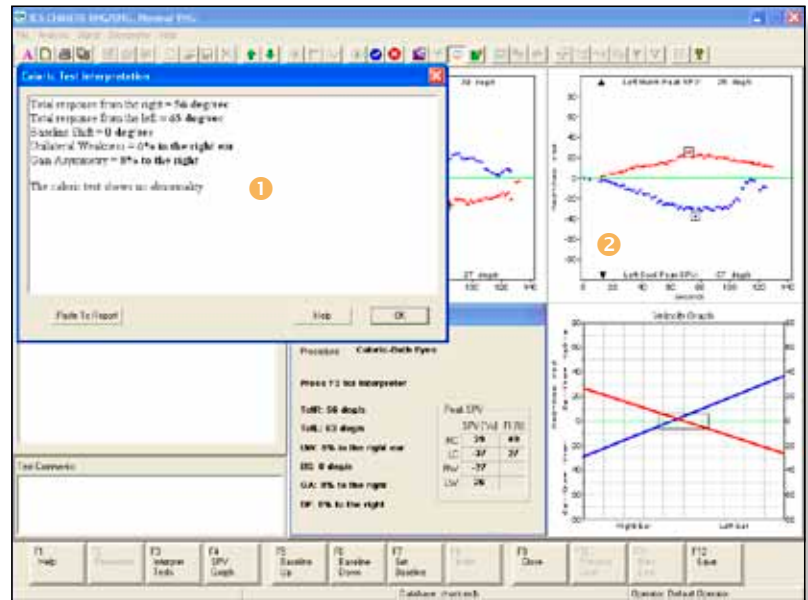
After completing the static positional or caloric tests, the Interpretation Assistant™ provides assistance with interpreting the test results. The validation of caloric results is based on the physiology of the vestibular responses and has been evaluated in a large patient population.



The cutoff values for different caloric test and static position test parameters such as unilateral weakness, nystagmus intensity, and others are fully customizable so that each laboratory can use its own normative limits.

When the results of the data are not explainable by any physiology or pathophysiology of the vestibular system the Interpretation Assistant guides the clinician with suggestions.

Interpretation of these results is presented in clear text to assist in the patient counseling and the text can be transferred to the patient report.



1 The Interpretation Assistant™ is an integral part of the ICS Chartr 200 system. It offers you assistance with the interpretation of both static positional tests and caloric tests.

2 On-screen PODS and Butterfly. The ICS Chartr 200 displays caloric PODS and Butterfly graphs on a single screen and page.

The Interpretation Assistant™ was developed in collaboration with Kamran Barin, Ph.D.

Kamran Barin, Ph.D. is a recognized expert with an extensive record of publications and experience in the area of vestibular testing.

The default normative values were developed in collaboration with Dr. Barin. His studies have played a vital role in creating the unique algorithm that forms the foundation for both the interpretation assistance and the test capability.

Dr. Barin has taught seminars worldwide in different areas of vestibular assessment and rehabilitation.

Learn more about Dr. Barin's ICS VNG/ENG courses at:
www.otometrics.com/resources





Tools that ease your workday

Following in the steps of pioneering balance clinics across the country, you will benefit from the advantages of our innovative VNG/ENG system. Using the familiar Windows® user interface, our integrated software, shared databases, and common reporting templates are quick to learn and easy to use.

Time saving features

The ICS Chartr 200 software offers time saving options. Once data collection is complete the data will be saved, analyzed and displayed automatically. Auto fixation light allows the user to set a time when the fixation light will automatically turn on and off during caloric testing. Caloric

countdown timer will display how long it has been since the last caloric test was completed.

Integrated irrigation

Make caloric testing even easier when using the integrated ICS air or water irrigator.

- Selecting the caloric protocol will select the correct temperature on the irrigator
- Using the trigger button on the irrigator handle or the foot switch will start the countdown timer and VNG/ENG tracing simultaneously

Comprehensive reports

Detailed, customized reports are automatically created in a format that is easily understood by both physicians, audiologists and other professionals. Concise, organized reports, stored in one common database, make it easy to share data.

Digital video clips for fast review

Easy recording, review, and transfer of digital video sequences allow you to share information with colleagues – and even send video files as e-mail attachments. Patient's eyes and buttons to start and stop the recording are visible during the entire data collection.

Comprehensive educational support

Users of ICS Chartr equipment can benefit from the best training and support in the industry. Our educational programs ensure that users will benefit from the best legacy in the profession including:

- Dr. Barin VNG/ENG courses
- In-depth equipment training
- Ongoing customer support
- In-house training and on-line education (regional)
- Our well-respected, "Insights in Practice"
- Demo patient data assists in learning process



Sleek and portable

The lightweight and flexible design of the light bar completes the portable ICS Chartr 200 solution.



Patient care with a personal touch

Easy-access foot switch allows patient data collection while staying close to your patient. The convenient remote control lets you operate the software from a distance so you can maintain personal contact with your patients.



Timesaving EP/VNG/ENG Combo

Integration

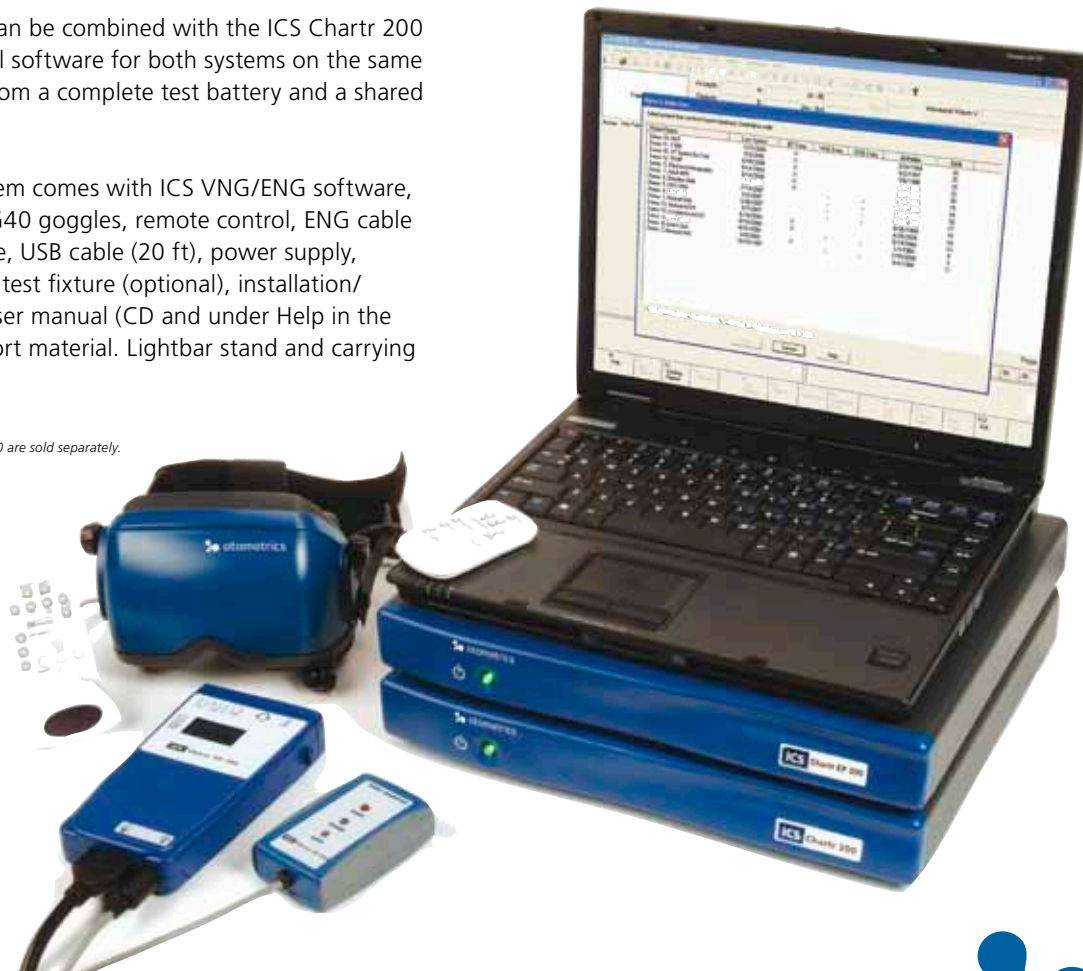
The ICS Chartr 200 can be combined with Otometrics' successful auditory evoked potential system the ICS Chartr EP 200, creating a state-of-the-art solution.

Complete test battery

The ICS Chartr EP 200 can be combined with the ICS Chartr 200 VNG/ENG system. Install software for both systems on the same computer and benefit from a complete test battery and a shared database.

The ICS Chartr 200 system comes with ICS VNG/ENG software, lightweight light bar, VG40 goggles, remote control, ENG cable (optional), irrigator cable, USB cable (20 ft), power supply, ENG external loop-back test fixture (optional), installation/setup guide (printed), user manual (CD and under Help in the software) and ICS support material. Lightbar stand and carrying case are optional.

*ICS Balance Platform and ICS Chartr EP 200 are sold separately.
VEMP not currently available in the US.*



● Hearing Assessment ● Fitting Systems ● Balance Assessment

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