



CASE

Computer Aided Sensory Evaluator

The CASE IV System is an automated device for measuring sensory thresholds. Non-invasive, precise, repeatable, natural stimuli are administered to the patient, and are recorded and quantified using proven algorithms. All patients are automatically compared to norms (provided courtesy of Dr. Peter Dyck, Rochester, MN) and are expressed as percentiles and normal deviates. The system allows a patient to be tested over a period of time, following the course of abnormality, or to assess the effect of treatment.

The CASE IV System is highly accurate and finely calibrated. Its robust construction makes it ideal for controlled and standardized testing, assuring clean and accurate data from patient to patient and for serial testing of individuals.

CASE can be used in:

- Clinical neurology
- Diabetes care
- Controlled clinical trials
- Epidemiological studies
- Evaluation of therapeutic regimens
- Toxicology
- Occupational Medicine
- Cancer and AIDS research

Features:

- Precise hardware verifiable by physical standards and calibrations traceable to the National Institute of Standards and Technology (NIST)
- Automatic comparison to Rochester MN statistically validated normative data.
- Time-efficient – only 3 minutes per modality
- Automated data collection
- Windows-based software with upgrade capability to WR TestWorks autonomic lab hardware and software (contact us for information on HR variability during valsava or HRDB, sweat output analysis, etc.)
- Proven and validated algorithms



For Quantitative Sensory Testing of Peripheral Sensory Threshold

- Thermal (Cooling, Warming, and Heat-as-pain)
- Vibration

For results that are

- Sensitive
- Specific
- Reproducible
- Time-Efficient

CASE IV TECHNICAL SPECIFICATIONS

A SYSTEM INCLUDES THE FOLLOWING:

- Main unit
- Vibration stimulator
 - 25 levels of stimulation
 - Stimuli range from 0 to 576 micrometers of displacement, at 125 Hz
 - 30-gram pre-loaded weight at stylus
 - Stylus size: approximately 1 cm
- Thermal stimulator
 - 25 levels of stimulation
 - Solid state thermoelectric unit
 - 8 to 50 degrees C., with an accuracy of $\pm .25$ degrees C.
 - Surface area: 9 square cm.
- Patient Cue device
- Patient Response device
- Calibration verification devices, to ensure clean and accurate data
- Patient Testing supplies
- Equipment cart
- Laptop PC
- Printer

ON-SITE TRAINING:

Our experienced staff can teach any technician or physician how to use the system in under three hours.

HELP DESK:

Telephone, fax, and e-mail support during normal business hours (M-F, 8:00AM-4:30PM, Central Time)

E-Mail: caseivhelp@wrmed.com

QUALITY AND SAFETY:

ISO 9001:2000
ISO 13485:2003



INDICATIONS FOR USE:

The CASE IV™ System may be used on patients with neurological diseases (especially peripheral neuropathy). The system is designed to measure and log patient responses to a series of thermal or vibratory stimuli, but does not make a diagnosis. The test results should be used with the results of other medically accepted tests in order to assist the physician in making a diagnosis.

CONTRAINDICATIONS:

Computer aided sensory evaluation is a psychophysical test requiring that the patient be rested, attentive, and cooperative. Do not test the patient if he/she does not meet these requirements.

Children under the age of eight years are not sufficiently attentive for the duration of the tests to obtain reliable results.

Patients with mental retardation or dementia cannot reliably be tested. Patients receiving sedatives or tranquilizers should be withdrawn from their medications for a sufficiently long time so that the test can be done.

This test cannot be given when the patient is inattentive, uncooperative, demented, sedated, or too ill to cooperate.

Drugs not to be used on the patient: mood or mind-altering drugs of any kind, including opiates, tranquilizers, and analgesics.

This test cannot be given to patients with exfoliating skin conditions, dermatitis, bruises, weeping skin, skin lesions, infected skin, or necrotic skin.

Patients should be pretested for gross insensitivity or supersensitivity to thermal and vibration stimuli using medically accepted methods of testing.

WARNINGS AND CAUTIONS:

- Warnings: None.
- Cautions:
 - This device is restricted to sale by or on the order of a physician.
 - This device is to be serviced only by WR Medical Electronics Co. If servicing is done by any party other than WR Medical Electronics Co., the product warranty and/or safety or quality certifications could be invalid. Contact the factory for repair advice before attempting to repair.



PHOTOS:

Thermal Stimulator (left), Vibration Stimulator (bottom left), Patient Cue and Response Devices (below)



For more information on this product, please contact:

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