



NerveCheck[®]

TECHNOLOGY APPLIED TO HEALTH



Description of NerveCheck.

NerveCheck is a non-invasive diagnostic medical technology that quantifies the functional status of medium and small-caliber sensory nerve fibers, which cannot be assessed by EMG.

The results are expressed in quantitative numerical form in relation to the normal values table of the NerveCheck Master instrument.

How is the evaluation done? Using 2 stimulators:

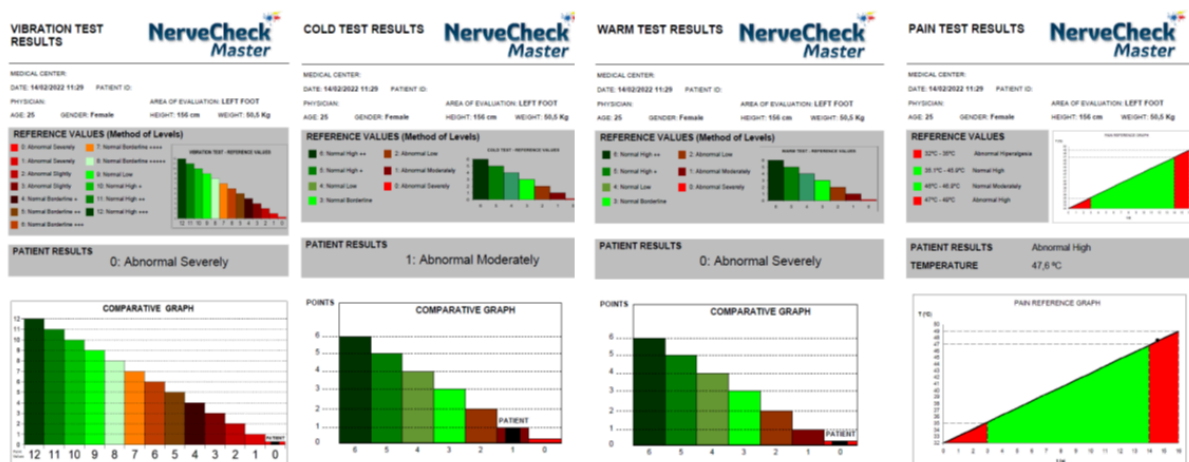
Mechanical stimulation, through a Vibrameter of 248Hz for testing Vibration Perception Threshold.



Thermal stimulation, through a Thermode for testing Cold and Warm Perception Threshold, and thermoalgesic stimulation tests.

Characteristics.

- ✓ Evaluation of 4 nerve fibers. Analysis in real time.
- ✓ Quantitative diagnosis. Prevention, early detection of alteration. Monitoring of the patient's evolution.
- ✓ **Pathologies: Diabetes, sensory neuropathy and polyneuropathy.**
- ✓ **Download Reports with results.** Immediate results.
- ✓ No calibration required. Carrying out 110 tests.





Bibliography:

- NerveCheck: An inexpensive quantitative sensory testing device for patients with diabetic neuropathy. Diabetes research and clinical practice 113[2016]101-107
- NerveCheck for the Detection of Sensory Loss and Neuropathic Pain in Diabetes. Diabetes Technology & Therapeutics Volume 18, Number 12, 2016 Mary Ann Liebert, Inc. DOI: 10.1089/dia.2016.0279.
- Widespread sensory neuropathy in diabetic patients hospitalized with severe COVID-19 infection. Diabetes Research & Clinical Practice Volume 172, 108631, February 01, 2021.
- Quantitative sensory testing defines the trajectory of sensory neuropathy after severe COVID-19. Diabetes Research and Clinical Practice Volume 207, 111029, January 2024,

Technical Specifications

Class of the medical device	Ila
Stimulation Methods	Levels Limits
Compatible Operating Systems	Windows 7 Windows 8 Windows 8.1 Windows 10
Screen	LCD Alphanumeric
Interface between NerveCheck Master and PC	USB
Software to Download data	Included
Batteries Unit A / Unit B	Lithium-polymer 392mAh / Lithium-polymer 5000mAh
Stimulator	
Vibration Stimulator: Operating frequency (Hz)	248 Hz ± 1%
Thermal Stimulator: Temperature Range (°C)	Cold Test: 15 °C - 25 °C ± 0.5°C Warm Test: 40 °C - 46 °C ± 0.5°C Heat Pain Test: 32 °C - 49.5 °C ± 0.5°C
Time test performance (seconds)	Vibration Test: 2s ± 1% Cold Test: Max. 40s ± 1% Warm Test: Max. 40s ± 1% Heat Pain Test/ Warm Test by Limit: Max. 16 sec ± 1%
Environmental conditions	
Operating conditions: Temperature	18 °C (64 °F) - 30 °C (86 °F)
Operating conditions: Humidity	20 - 80 %
Storage conditions: Temperature	-20 °C (-4 °F) - 60 °C (140 °F)
Storage conditions: Humidity	20 - 80 %
Charger	
Voltage	100 – 240V AC
Frequency	50 - 60 Hz
Power adapter output	18W
Dimension / Weight	
Height / Width / Depth	113 x 66 x 267 mm
Weight (Battery included)	1.130 gr.



ISO 13485:2016
EN ISO 13485:2016



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