



The Industry Benchmark for Precision and Portability



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**MobiTrak®**  
Portable Video-ENG System  
with Active Head Rotation (AHR)

# The MobiTrak® Video-ENG

In general the Videonystagmography (VNG) is a study used to clinically evaluate patients with dizziness, vertigo, or balance dysfunction. The vestibular system monitors the position and movements of the head to stabilize retinal images. This information is integrated with the visual system and spinal afferents in the brain stem to produce the vestibulo-ocular reflex (VOR). VNG provides an objective assessment of the oculomotor and vestibular systems.

Essentially, the standard VNG test battery consists of 3 parts: oculomotor evaluation, positioning/positional testing, and caloric stimulation of the vestibular system. The comparison of results obtained from various subtests of VNG assists in determining whether a disorder is central or peripheral. In peripheral vestibular disorders, the side of lesion can be inferred from the results of caloric stimulation and, to some degree, from positional findings. In a large study of patients tested with VNG in a wide range of clinical settings, Stockwell (2000) found an abnormal test results in approximately 39% of patients tested,. Peripheral vestibular abnormalities were found in approximately 23% of patients tested, whereas central abnormalities were found in only approximately 5% of patients tested.

The Goggle is the most instrumental piece of equipment for any video ENG. It should be lightweight, durable, and comfortable for your patient. MedTrak builds market-proven equipment with the most durable and shock resistant design that will hold up for years of use. It is also the most popular choice by the patient. Unlike the others, we have no light bar assembly or calibration requirements. The patient just looks into our Goggle and all the tests can be performed instantly! We offer the most streamlined and user-friendly Windows™ based software program that is the fastest test station available in the industry today. Other manufacturers have designed complicated software systems that require continuous interaction and calibrations between tests. Their impressive software design has done very little in the way of streamlining the test procedures for the technician and patients. MedTrak's systems are more efficient and time saving as a result of a faster testing software interface.



## Industry Leading Features:

- Light weight Goggle Assembly
- Built-in Active Head Rotation (AHR)
- OnScreen Stimulus eliminates the need for light-bars or projectors.
- Standard Five-Year Warranty
- Introductory Data Analysis and Clinical Support provided by Board Certified Neurologists.
- Unmatched Service & Support

MedTrak has also developed the industries first mobile VNG system called the MobiTrak. The MobiTrak System includes the same best in class technology, but in a compact and mobile package. No program on the market today can match the Technology and the Support that MedTrak provides. So act now and bring Balance back into your patients life's.

## Specifications:



Measurement Section	Infrared/Video ENG Goggle
Control Section	Computerized Digital Interface and Algorithm
Imaging System	
Imaging Device	CCD Video Camera
Synchronization	NTSC
Sampling Frequency	60 Hz
Measurement Output	
Display of Results	On Screen / Report Generator / Export
Copy of Results	Archive / CDR / SD / MMC
Stimulus Light Source	
Luminance	Computerized Digital Interface and Algorithm
Wavelength	18 in. / 45.72 mm
Infrared Light Source	
Illumination	Indirect, Diffuse Illumination
Wavelength	Infrared LED Peak Wavelength 840 nm
Video Capture	Composite to USB Interface 60 Hz NTSC
Caloric Irrigations	Bi-thermal Air flow 20°C and 47°C
System Power Requirements	
Line Voltage	100/117VAC +/- 10%
Frequency	50/60 Hz
Power Consumption	Approx. 200VA
Standards	Manufactured under ISO-1346

## Standard Support:

- Two-Day Onsite Installation and Training.
- Introductory Data Analysis for 60 Days or 30 Tests provided by Board Certified Neurologists..
- DVD Video Training Library
- Five Year Parts & Labor Warranty
- Access to Quarterly Training Workshops



ISO 1345:2003



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