# *Introducing the New and Improved*
# FIT 2000-2 Fitness-for-Duty/Impairment Screener

PMI has developed a unique technology to measure human impairment. It's proprietary technology can assess whether a person is significantly impaired by **fatigue, legal medications, illegal drugs, alcohol, sleep deprivation**; alone or in combination.

## Product

The FIT 2000-2 is a tabletop device that permits an individual to self-administer a quick, non-invasive assessment test. The technology measures a person's involuntary eye-reflex reactions to light, and compares key eye measurements to the person's own baseline. These measurements can be used to track changes in the person's alertness levels and levels of impairment.

## Characteristics

- 30-second test
- Instant results
- Non-invasive
- Spots effects of fatigue, medications, drugs, and alcohol
- Results cannot be gamed or faked
- Inexpensive
- Rigorously validated by major research labs
- Field-tested by demanding customers

## Improvements

- Fingerprint reader to identify the individual
- Saccadic velocity measurement frequency at 750 HZ
- Integrated light meter to adjust for differing ambient light levels
- Improved User Interface Training Guides
- Fully integrated computer and database
- .022 mm Pupil measurement resolution
- Network compatible

## Scientific validation/Research Studies

Considerable scientific validation has been performed by leading U.S. research organizations and researchers, including, but not limited to:

- Addiction Research Center, National Institutes of Health, Johns Hopkins (Baltimore, MD)
- Walter Reed Army Institute of Research (Washington, DC)
- Vermont Alcohol Research Center (Burlington, VT)
- Institute for Circadian Physiology (Boston, MA)


- Division of Neuropsychiatry, Walter Reed Army Institute of Research – Thomas, Maria L. et al; "Neural Basis of alertness and cognitive performance impairments during sleepiness," *Elsevier/Thalamus & Related Systems* 2 (2003) 199-229.
- Russo, Thomas M., et al; "Oculomotor impairment during chronic partial sleep deprivation," *Elsevier Science Ireland, Ltd. For International Federation of Clinical Neurophysiology* 114 (2003) 723-736.
- Pickworth, Wallace, et al; "Pupillometry and Drug Detection In Opiod-Maintained Patients," NIDA Intramural Research Program and Pulse Medical Instruments, Inc. Study presented at the 65th Annual meeting of College on Problems of Drug Dependence, June 16, 2003; Miami, FL


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