



## Introducing the New and Improved FIT® 2000-2 DrugSentry™ Substance Abuse Screener

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

### Product

The *DrugSentry* 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 indicating substance abuse. For use as a Substance Abuse Screener the system is adjusted for higher sensitivity to drug and alcohol abuse.

### Characteristics

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



FIT® 2000-2

### Improvements (Recent Enhancements)

- ▶ Optional Fingerprint reader to identify individual
- ▶ Saccadic velocity measurement frequency at 750 HZ
- ▶ Faster processor improved to 650mhz from 400 mhz
- ▶ Improved on line Audio Training in various languages
- ▶ Fully integrated computer and database
- ▶ +/- .022 mm Pupil measurement resolution
- ▶ Network compatible with user's database
- ▶ Does not attempt to define drug category

### 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 Opioid-Maintained Patients," NIDA Intramural Research Program and Pulse Medical Instruments, Inc. Study presented at the 65<sup>th</sup> Annual meeting of College on Problems of Drug Dependence, June 16, 2003; Miami, FL

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