

## AlcoScan AL2500 Elite

### User's Manual



The AlcoScan AL2500 Elite analyzes a breath sample to detect alcohol in the lungs. This reading is then converted to blood alcohol concentration (BAC). The AlcoScan AL2500 Elite is very convenient and portable, and uses mouthpieces to concentrate the breath sample for high precision results.

## Operation:

1. **Power On/Off.** Ensure two AA batteries (included) are installed by opening the rear cover of the unit. Press the POWER button on the face of the unit.  
***IMPORTANT: When you power on the unit, you will see a countdown in the display. The device must “warm up” the sensor for testing. Please wait until the display shows “0” before using the device. The warm up process takes less than 30 seconds. The unit will play two (2) short BEEPS when it is ready for use.***
  
2. **Breath Sample.** Attach a mouthpiece to the slot above the display. The user should take a deep breath and exhale sharply and steadily into the mouthpiece for at least 2 full seconds.
  - a. After you blow into the unit, it will BEEP once to show that it has taken a reading.
  - b. The unit will BEEP again when it starts analyzing the sample. You will also see a “**WAIT**” indicator flashing in the display.
  - c. When the analysis is complete, the “**WAIT**” indicator will turn off and the unit will BEEP again. You will then see a Blood Alcohol Concentration (BAC) reading in the display.
  - d. If a sample is not taken within 20 seconds, you will hear four (4) beeps and the unit will shut itself off. (You can also press the POWER button again to manually shut off the unit.)
  
3. **Analysis and Display.** Once the sample is analyzed, **the unit will display the result as a percent measure of Blood Alcohol Concentration (BAC) from 0.00% to 0.40%.** The BAC will be displayed for 15 seconds. The unit will shut itself off after testing.

If you would like to perform another test, please power on the unit again. When performing multiple tests, the warm up cycle shortens to less than 20 seconds.

4. **Results.** The legal limit for intoxication (DUI/DWI) is **0.08%** BAC across most of the USA. According to the American Medical Association (AMA), a BAC of **0.05%** is enough to impair the ability to drive. *You should never operate a motor vehicle when you are impaired by the consumption of alcohol, drugs or lack of proper rest.*

**Measured BAC**

0.00% to 0.01%	Safe range.	Little/no alcohol intake.
0.02% to 0.04%	Moderate* range.	Increased alcohol intake.
0.05% to 0.07%	Warning* range.	Ability to drive may be impaired.
0.08% and over	High Risk* range.	Legal driving limit for BAC exceeded.

*\*Drinking alcohol in ANY amount may impair the ability to drive. There is no "safe" level of alcohol intake before driving. Don't drink and drive.*

5. **Warnings.**
- a. Wait at least 20 minutes after eating or drinking before testing. Alcohol remaining in the mouth, or even excess saliva, may interfere with testing. This includes alcohol-based mouthwash or similar products. **This is the most common cause of improper use and incorrect results.**
  - b. Avoid testing in high wind or enclosed spaces. Poor ventilation may also lengthen the time required for warm up between tests.
  - c. Do not blow smoke, saliva or other contaminants into the mouthpiece, as the sensor may become damaged.
  - d. Do NOT use the AlcoScan AL2500 Elite as a tool to drink and drive.
  - e. Keep out of extreme temperatures and out of the reach of children.
  - f. **To maintain accuracy, professional recalibration of the AlcoScan AL2500 Elite must be performed every 200 tests or at least once yearly (12 months), whichever comes first.** To recalibrate, you must mail your device to the address at the end of this manual. Please contact us for details and related fees.

6. **Specifications for AlcoScan AL2500 Elite.**

Method of Measure	Breath sample to BAC
Range	0.00% to 0.40%
Accuracy	+/-0.01% up to 0.10% BAC
Sensor	Oxide semiconductor
Power	Two 1.5V AA alkaline batteries (included)
Testing Capacity	Approx. 200 with new batteries
DOT Approved	YES
Operating Temperature	10 – 40 degrees Celsius
Warm Up	Less than 1 minute
Display	3-digit LED
Size (mm)	104 mm x 40 mm x 20 mm
Weight	85 g
Recalibration	Recommended every 200 tests or at least once yearly, whichever comes first

7. **Warranty.** The manufacturer warrants the product to be free from defects in workmanship or material (excluding calibration) under normal use for one (1) year from the date of purchase. The manufacturer's obligation under this warranty is limited to replacing, adjusting or repairing the unit if returned along with proof of purchase. This warranty is void if the unit has been tampered with or maliciously damaged. Recalibration is a periodic maintenance procedure required of any and all breathalyzers in order to maintain accuracy, and as such, is not a warranty service.

8. **Recalibration.** For recalibration or technical support, please contact us using the information below.

AK Solutions USA, LLC

21 Grand Ave. Suite 102

Palisades Park, NJ 07650

Toll-Free: 800-943-1016 (Monday-Friday 9AM to 6PM EST)

Tel: 201-943-9411 (Monday-Friday 9AM to 6PM EST)

Fax: 201.943.8828

Email: [support@alcomate.net](mailto:support@alcomate.net)

Web: <http://www.alcomate.net>