

TrueDetect™ Alcohol Monitoring Breath Alcohol Testing Device

The MEMS3000 is manufactured by ElmoTech and is a highly efficient alcohol monitoring system, integrating breath alcohol testing, color picture identity verification and optional (MEMS3000 VBR) radio frequency presence monitoring into a single home unit. The Remote Breath Alcohol Testing capability of the MEMS3000 enables monitoring of extensive caseloads with high availability and accuracy, while easing the strain on limited human resources. The MEMS3000 has been designed to be extremely flexible with respect to the level of supervision the system can provide, as well as the subject information that is collected and maintained for management reporting purposes. The level of electronic surveillance imposed on an individual can be easily adjusted by simply adding an RF module and by increasing or decreasing the number of breath alcohol tests required for each day.



Electro-Chemical Breath Alcohol Tester (BAT) provides agencies with immediate, highly accurate alcohol consumption assessments by analyzing deep lung samples; achieving an accuracy rate of +/- 5% relative to the actual alcohol level. The sensor offers standard results common to other police and law enforcement alcohol measuring appliances.

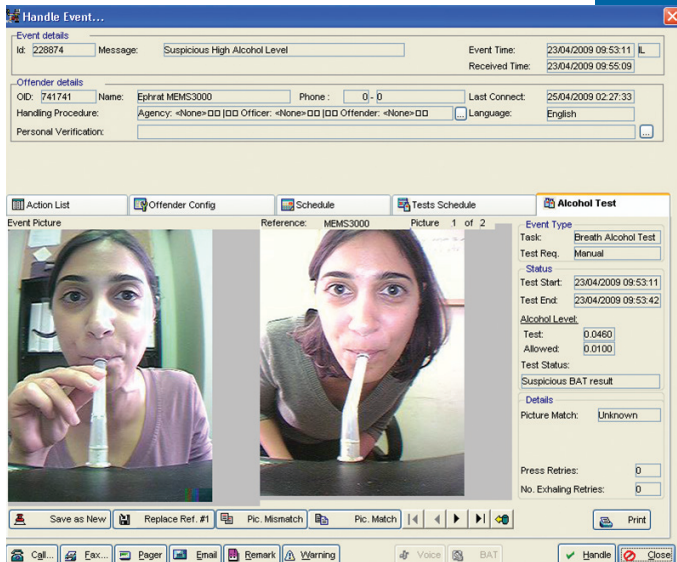
Visual Color Picture Identification ensures verification of offender by taking a color picture while the test is performed, which is then compared to the reference picture – greatly reducing the opportunity for offenders to defeat the system.

Scheduled, Random or On-Demand Testing allows agency officers to customize testing schedules per offender – maximizing the system based upon the electronic surveillance needed.

Landline or Cellular Communication Options offer agencies flexibility in the application of alcohol monitoring in locations where lack of a landline is an issue.

Optional Radio Frequency Model (MEMS3000 VBR) enables agencies to combine electronic monitoring services—both alcohol monitoring and house arrest monitoring – just by installing an E3 RF transmitter on the offender's ankle.

MEMS3000 Operational Concept



1. Upon enrollment, testing schedules are downloaded
2. When prompted by the unit, offender follows testing instructions
3. Offender blows into straw—picture identity verification is done automatically
4. Test results are sent to the monitoring center, automatic re-tests upon positive results

MEMS3000 Specifications

- ▲ **Electro-Chemical Breath Alcohol Tester (BAT):** highly accurate alcohol consumption assessment by analyzing deep lung samples; accurate to $\pm 5\%$
- ▲ **Full Color Picture Verification:** confirms the identity of the individual performing the breath alcohol test
- ▲ **Multiple Communication Methods:** available models for either cellular (GPRS) or landline communication
- ▲ **On-Board Analysis:** test results are determined by the MEMS3000 unit and immediately transmitted to the central system
- ▲ **Testing Schedules:** customizable for automatic, random or on-demand testing
- ▲ **Automatic Re-Testing:** upon positive test and based on established system parameters
- ▲ **Violation Notification:** immediate reporting of positive results to agency officers via email, pager, or text
- ▲ **Fixed Breath Tube:** for accurate positioning and anti-fraud
- ▲ **Anti-Tamper Features:** notification for disabled power and landline connections; as well as unit "tilt"
- ▲ **Backup-Battery:** automatically engages upon power disruption; provides approximately 18 hours of operation
- ▲ **Memory Storage:** provides up to 11,000 events (including test results) and 8 pictures when unit is unable to communicate with central system
- ▲ **Optional House Arrest (RF):** available with the MEMS3000 VBR and used in conjunction with the E3 RF transmitter to provide both alcohol and home confinement monitoring. The offender's presence or absence is tracked constantly by signals from the transmitter to the MEMS3000 VBR unit
- ▲ **Dimensions:** 10" x 10" x 8"
- ▲ **Weight:** 6.61 lb

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