

# ALCOLOCK™ LR

Alcohol Ignition Interlock

Available through:



## Alcohol Countermeasure Systems

60 International Boulevard  
Toronto, Ontario M9W 6J2 CANADA

+1 416 619 3500

[acs-corp.com](http://acs-corp.com)

Designed in Canada by  
Alcohol Countermeasure Systems Corp



## Warranty

All ACS alcohol ignition interlocks are warranted to be free from defects in workmanship and material for one year from the date of purchase. Only qualified technicians should perform maintenance on any alcohol ignition interlock.

ACS, ALCOHOL COUNTERMEASURE SYSTEMS, ALCOLOCK, ALCOOSIM and the "Molly" are trademarks of Alcohol Countermeasure Systems (International) Inc. and are used under license.

20180301





## Secure and reliable monitoring

The ALCOLOCK LR device features an interactive handset used to perform breath alcohol tests and communicate with the driver, and an electronic unit that connects to the power and control circuits of the vehicle.

### Program compliance

Device settings can be customized to meet jurisdictional interlock program needs. They can be set to require random retests and trigger recalls after detecting a program violation.

### Anti-circumvention

Breath signature technology ensures that accepted breath samples come directly from a human subject and have not been filtered or altered before the alcohol sensor performs the analysis.

### Biometric monitoring and camera image ID

An image of the driver is taken with each critical event. Facial biometrics and hum tone recognition are used to identify the driver as the person providing the breath sample.



### Dual sensing

Breath alcohol analysis is conducted by two independent electrochemical (fuel cell) sensors to enhance the reliability and accuracy of the measurement.

### Dual event logging

Events are logged in both the handset and the electronic control unit (ECU) enabling remote downloads while protecting the security of the event log file and enhancing anti-circumvention measures. Attempts to start the vehicle engine with the handset disconnected are still recorded in memory.

### Secure data handling

Event log files and communication are protected with AES 128 bit encryption standard for security of the memory and the transmission of data files. Flash memory preserves the event log when the vehicle battery is disconnected.

### GPS location

Events are recorded in memory with time, date and GPS coordinates to enhance compliance monitoring and to deter circumvention.

### Wireless data transmission

Event log data is automatically transmitted from the ECU via GPRS (cellular) network to an ACS secure data center hosting AlcoTrack™ suite of applications for program management of client and vehicle data. Jurisdictional authorities may access the data online via a secure web based portal, and notifications may be sent by email/SMS.

### Quality engineering

Engineered to withstand the rigors of the vehicle environment, including dust, vibration, humidity and extreme temperature. Manufactured according to TS 16949 quality standards and conformity of production norms.

### Certification

The ALCOLOCK LR device meets or exceeds the requirements of the Australian, Canadian, European (CENELEC) and US DOT (NHTSA) norms for alcohol interlocks for compliance monitoring.



**Sensor**  
Dual, electrochemical sensor



**Specificity**  
Alcohol only; no response to ketones or hydrocarbons



**Range of measurement**  
0 to 500 mg/dL



**Analysis time**  
5 to 25 seconds



**Recycle time**  
10 to 30 seconds



**Accuracy**  
±5 @ 50 mg/dL



**Display**  
OLED



**Operating temperature**  
-45 °C to +85 °C



**Operating voltage**  
12 and 24 volt DC



**Calibration**  
ALCOSIM™ breath alcohol simulator or equivalent



**Dimensions**  
140 mm x 50 mm x 25 mm



**Weight**  
105 grams



**Wireless options**  
GPS and GPRS



**Certification**  
CENELEC EN 50436  
Parts 1 and 2