

# ALCOLOCK™ LR

Alcohol Ignition Interlock

Available through:



## ALCOLOCK Canada

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[alcolock.ca](http://alcolock.ca)

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.

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20190115





Secure  
and reliable  
monitoring

ALCOLOCK LR 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.

### 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.

### 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.

### 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.

## Optional upgrades

### Biometric monitoring and camera image ID

FOCUS™ camera takes an image of the driver with each critical event. Facial biometrics and hum tone recognition are used to identify the driver as the person providing the breath sample.



### GPS\* location

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

*\*Jurisdiction specific according to local regulations*

### 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.

### Warning lamp

ALCOLUX™ warning lamp integrates with the FOCUS camera or may be used alone for enhanced road safety and program compliance. Working in conjunction with ALCOLOCK LR, the warning lamp flashes when a program violation occurs, alerting other road users of a potential impaired driver.



**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 15 seconds



**Recycle time**  
5 to 10 seconds



**Accuracy**  
± 5 @ 50 mg/dL



**Display**  
OLED



**Wireless options**  
GPS\* and GPRS



**Operating temperature**  
-40 °C to +85 °C



**Operating voltage**  
12 or 24 volt DC



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



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



**Weight**  
105 grams



**Certification**  
CENELEC EN 50436 -1 and -2  
US DOT (NHTSA)  
CSA Z627-16