

EXMOVERE LLC - EXMOVERE. COM

# THE EXMOVERE EARBUD

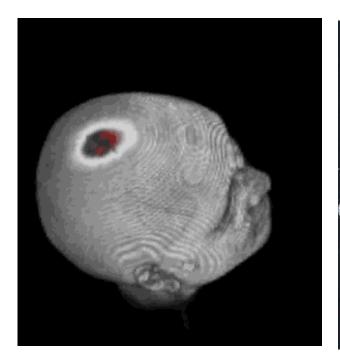


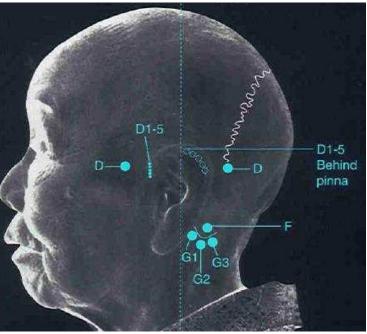


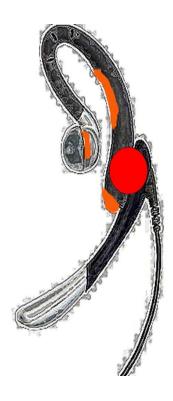


#### The Earbud as Emotion Sensor

Exmovere LLC. offers services to integrate emotion sensors, health monitors and emergency response tools into telephone ear buds. Exmovere has designed patent-pending earbuds with embedded brain and vital sign sensors. These sensors can track and communicate user alertness, moods and activity levels. Finally, it will be possible for cell phone users to download media that matches their mood; users will be able to communicate their mood to other callers; and users will be able to receive emergency assistance in case of medical disorders, terrorist attacks or natural disasters. Most importantly, cell phones will now be able to alert their users to pay more attention to the road!







#### **Crucial Points**

Exmovere LLC.'s patent-pending design for earbud sensors is based on the popular wrap-around headset style for easy access to brain waves and blood vessels near the skin surface. The Exmovere earbud monitors: blood pulse, blood flow and EEG. The earbud also can be programmed to accept additional input based on ambient sound, voice stress, body movement sensors and other environmental factors. It converts this data into information processed by the cell phone's software (Symbian, Palm OS, Pocket PC, etc). A signal may then be sent back to the user to warn of danger. No other company offers so many sensor features in such an unobtrusive package.

Bluetooth transmission design is optional.

**Applications** 





### Asleep at the Wheel

One of the top killers on the road is tired driving. Job stress, poor physical fitness and diet, badly lit road ways and excessive air conditioning are all factors that doze drivers off to sleep. At the moment, there are no cost-effective solutions for monitoring driver alertness levels, particularly for long-haul vehicle operators: truckers, taxi drivers and police officers. The Exmovere earbud can detect excessive fatigue by monitoring blood flow to the brain, heart rate activity and brain waves. In case of drowsiness, the earbud can signal a variety of alarms to the user, to the automobile, to a friend by SMS, or to emergency services.







## **Distracted Driver**

The more likely killer of drivers is both obvious and banal: distracted driving. Between phone calls, food, GPS navigation systems, in-car TV's and obnoxious family members, drivers need Exmovere's earbud to stay reminded of the road... Even while they enjoy the entertaining aspects of their vehicle.



### **Road Rage**

Being angry exacerbates the problem of driving distracted. Exmovere earbud sensors are able to detect changes in heart rate, blood flow and ambient activity that are linked to such a dangerous situation. The critical thing is to keep the driver's attention on the road... This means a change in priority for incoming phone calls, a signal to pay attention and/or soothing music.

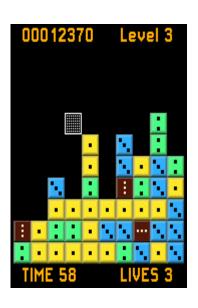




# **Emergency Assistance**

Should an accident happen, emergency services need immediate imformation on driver signs, head injuries and other details. Exmovere's earbud is uniquely qualified to communicate this information by SMS, or to store such information until rescue crews arrive. Today's driver will be more likely to accept and use his earbud for cell phone calls if he is made to understand this emergency assistance function.









### **Entertainment**

To encourage use of cell phone minutes, providers are offering users a wide variety of media to enjoy with their handsets: TV clips, movie trailers, video games, wallpapers, contests, etc. Exmovere's earbud can enhance this experience by suggesting downlands according to the user's mood: lonely, excited, anxious, stressed, tired, etc. By learning which items the user enjoyed under certain circumstances, the Exmovere earbud can serve as the ultimate gateway for the user's emotional experience of his cell phone. In other words, Exmovere earbud users will be more likely to take advantage of media offerings from service providers.... because it enables true personalization.



### **Fitness**

In the future, cell phones will be used like for fitness purposes, particularly dieting and jogging. By using Exmovere's earbud sensor technology, the user can track his health changes and performance levels in real-time. Specifically, the earbud can help train users to control their heart rate and stress while jogging and exercising through simple audio alerts ("Heart rate too high," "Heart rate too low," "Stress too high," "Attention level low," etc.).





## **Telepathy**

SMS and cell phone instant messaging is finally making its mark in the United States market. Exmovere's earbud can enhance this experience by enabling chatters to send each other information about their mood, emotions, health and attention levels. Exmovere's earbuds will enable the user to check in on the sick child at home, to be silly with friends and to feel closer to a loved one. Finally, the cell phone experience can have a new dimension of emotion.

# THE EXMOVERE EARBUD

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# **Exmovere Earbud Features and Benefits**

Wrap-Around Sensor Design	Reliable data, comfortable and familiar for car cell phone users, joggers
Heart Rate/Blood Flow Sensors	Detects user health, can offer emergency feedback, warn of danger
EEG Sensor	Monitors attention– a critical feature for drivers on cell phones
Cell phone software interface design	• Enables cell phone to suggest different downloadable media tailored to the user's mood: music, ringtones, games, etc.
	Enables users to communicate moods to each other
	<ul> <li>Enables user to play relaxation/anti-stress games on cell phone (biofeedback)</li> </ul>