

# Car Infotainment Gesture Control

DepthSense® CARlib for Automotive



**SoftKinetic®**  
A Sony Group Company

DepthSense® CARlib is the only middleware library certified for the automotive market. Designed for In-Vehicule Infotainment (IVI) control, CARlib is best used with SoftKinetic's close interaction time-of-flight 3D depth-sensing camera module.

It delivers real time 3D distance data for close interaction, thus creating the scene data as the eye-safe infrared light illuminates it.

Working with our powerful DepthSense® CARlib gesture recognition middleware, it opens a new world of unique experiences and brings a feel of magic to the driving experience, whilst improving safety.



## / Features

### General Features

- ▶ Driver and front seat passenger control
- ▶ Left and right driving supported
- ▶ Designed for IVI system control

### Natural Interaction

- ▶ Hand pose recognition
- ▶ Hand gesture recognition
- ▶ Context monitoring

### Robustness

- ▶ Scene & background management
- ▶ Light condition independence

### Development environments

- ▶ C++ / C#
- ▶ Linux, Windows

## / Infotainment, comfort and safety

DepthSense® CARlib enhances in-vehicle infotainment control by enabling accurate hand and pose tracking, thus ensuring robust gesture detection (static poses & dynamic gestures). The camera can be positioned at either roof or mid-console level.

DepthSense® technology can be used for further infotainment, comfort and safety features such as biometric recognition, seat and mirror adjustment, audio beam formation for voice recognition, airbag inflation, and even pedestrian or obstacle detection, autonomous parking, or autonomous driving.



## / From human tracking to autonomous driving

SoftKinetic DepthSense® products are the only time-of-flight sensors and human tracking libraries certified for the automotive market. They provide exceptional robustness to sunlight, heat, vibration, and false positive readings.

We're working on our next generation sensors and tracking libraries to create more intelligent cars and ultimately, a completely autonomous driving solution. Already, our technology is making many motorists' driving experience safer and more enjoyable.



## / Contact Us

To find out more, visit [www.softkinetic.com](http://www.softkinetic.com) or contact us at [info@softkinetic.com](mailto:info@softkinetic.com).