

Automotive Solution

Arkamys Hands-Free Solution



One of our current projects for the automotive sector is the Arkamys Hands-Free Solution based on the Echo Canceller and Noise Reducer algorithms (ECNR). This feature is offered as a complement to our Automotive Sound Staging Solution, which is already implemented in numerous models of renowned car manufacturers, and serves to complete our comprehensive audio offer for the automotive segment.

As the name suggests, the ECNR aims at improving the customer audio experience through reducing or removing undesired background noise and echo during the in-car voice transmission for telephone purposes. The tool will allow the end customer to profit from a flawless hands-free communication with the perfect-quality Arkamys sound.

Automotive Hands-Free Solution

- Echo Canceller: *up to 40dB*
- Noise Reducer: *up to 12dB*
- No musical noise
- Available in fixed/floating point

The Echo Canceller has the capacity of up to 40dB of echo attenuation and will feature optimized convergence time and controlled divergence during the DT phase. The ECNR algorithm also ensures up to 12dB of noise reduction capacity and a very low "musical noise", which will provide additional comfort to the end-user. The reference code is available for both fixed and floating point systems.

Considering the necessity for the ECNR to adapt to the structure and requirements of each individual car model, the Arkamys' software development team provides a flexible sound adjustment tool, which can easily be modified by our ECNR experts to fit to the automobile's specifics. This new addition to Arkamys' Sound Staging Solution will provide a vital adaptation of the car to the dynamic lifestyle of the modern drivers and passengers, and thus is an essential supplement to the overall automotive offer.