

TOTALSIM^{UK}

EXPERTS IN
COMPUTATIONAL FLUID DYNAMICS



TS ACOUSTICS
AUDIO/VISUAL CAMERA

WWW.TOTALSIMULATION.CO.UK

ABOUT TS

TotalSim are a leading Aerodynamics and Computational Fluid Dynamics (CFD) consultancy, providing fluid flow analysis and engineering solutions.

TotalSim was established in 2007 by the current Managing Director Dr Rob Lewis. At our office in Brackley, Northamptonshire we currently employ 24 people and the company is largely employee owned.

Our existing automotive customers are interested in reducing wind noise, which has led to a demand for aero-acoustic simulations. Recently we have expanded our acoustic capabilities further by joining forces with VisiSonics, who produce an acoustic camera.



ACOUSTIC CAMERA DETAILS

The camera is a new acoustic tool developed by VisiSonics, a spin-off from the University of Maryland in the US.

The camera simultaneously records 360 degree sound and video which are then processed to show the location of the noise sources.

The data acquisition and processing only takes minutes which means it can quickly identify Noise, Vibration & Harshness (NVH) problems.

The recorded sound and video can be re-played in Virtual Reality which means the noise problem can be shown to other engineers/managers afterwards.



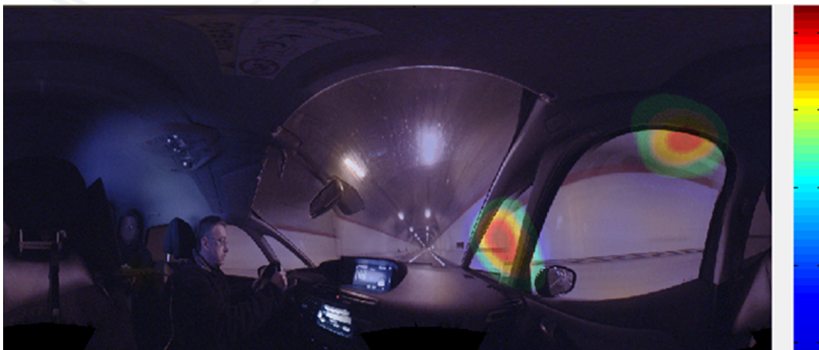
SERVICES

TotalSim is the exclusive UK reseller of the VisiSonics acoustic camera and offer the following services:

- **Consultancy** - An engineer will use the acoustic camera to help you analyse your noise problem and identify the noise sources.
- **Acoustic Camera rental/purchase** - Users can capture, store, retrieve and process real-time integrated and synchronized audio and visual information. The processing software and storage system allows you to do this in real-time or on stored data.



TotalSim are happy to help with reducing your noise problem. The acoustic camera can be placed in a vehicle (for example a car, yacht or train) to show the location of the dominant noise sources. Since the capture and analysis is very quick it is possible to test different noise reduction strategies within the same session. The output from the camera will show which strategy is most effective in reducing the noise and improving passenger comfort.



“ TESTIMONIALS ”

Garland Dughi
Tesla Motors Noise and Vibration Specialist

“Noise, vibration and harshness is a key study for auto manufacturers. The fact that the most prevalent noise, the combustion engine, can be eliminated, brings on a whole new suite of challenges. The RealSpace™ Panoramic Audio Camera is a great tool in helping to identify and localize those challenges.”

Conor Mulvey
Sales Manager - VisiSonics

“The VisiSonics and TotalSim partnership is a new avenue to provide our customers with state of the art technology in acoustic visualization and exceptional technical support with decades of experience.”

The capability of the camera is only truly appreciated by a live demonstration, when its speed, ease of use and the unique insight it creates can be truly appreciated. Please contact us using the details below for more information and to book a demonstration.

TOTALSIM

EXPERTS IN
COMPUTATIONAL FLUID DYNAMICS



TotalSim Ltd
Top Station Road, Brackley
Northamptonshire, NN13 7UG

T: +44 (0) 1280 840 316
E: info@totalsim.co.uk
TW: @totalsimltd

WWW.TOTALSIMULATION.CO.UK