The COMPACT NVH Simulator
Enabling a complete sound and vibration experience
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Enabling a complete sound and vibration experience

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Design and engineer the sound and vibration of your vehicle to meet brand and customer expectations before building the first prototype.
• Interactive NVH driving simulation on the desktop
  • Real-time Auralisation of NVH data
  • Adds Context and Interactivity to the Evaluations
  • Experience the sound for any driving condition
  • Switch between vehicles back-to-back
  • Create and drive vehicles that don’t exist
  • Targets / What If’s / New Designs / …
  • Real-time Visualization & Modification
  • Capture the opinion and driving behavior i.e. the decision-making
Multi-sensory NVH Simulation - Sound, Vibration, Visuals

- Multi-axial, calibrated vibration at all primary driver touch points
- Calibration, synchronized sound and vibration generation

The ultimate NVH experience

- All the same benefits of the desktop simulator, plus vibration and a fully immersive driving experience

Sound, Vibration and Steering
Multi-DOF Vibration + Sound
• Multi-sensory NVH Simulation - Sound, Vibration, Visuals
  • 7 Independent degrees of freedom
    • Seat vertical, lateral, fore-aft
    • Steering wheel vertical and lateral
    • Footwell / heel point vertical and lateral
  • Calibrated, full-spectrum Sound
DRIVER CONTROLS AND INTERACTION

Steering

Pedals

Dash

Paddle Shifters
Sequential / H-pattern shifter

Touchscreen
Large Curved Screen with Projector
Exceptional quality immersive visuals

Flat-panel Display
High-quality visuals in a smaller space
CARBON FIBER CONSTRUCTION
I M P A C T  H A R S H N E S S  A P P L I C A T I O N

2-wheel Impacts

Single Side Impacts
LET’S PLAN A VISIT TO ONE OF OUR SIMCENTERS

to understand how we can help you streamline and accelerate your NVH development process

Contact:
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Visit www.vi-grade.com/NVH for more information
Video: Enabling a complete noise, vibration, and harshness experience with the COMPACT NVH Simulator – YouTube
Launch Webinar: WEBINAR: COMPACT NVH Simulator Introduction - YouTube