

NVH Simulator Road Creator Type 8601-M

NVH Simulator Road Creator Type 8601-M is a NVH Vehicle Simulator module that generates customised 3D visual scenarios automatically. The module enables you to create a new scenario based on recorded GPS data or other x,y,z coordinates, enabling the right road and traffic scenarios to be generated for evaluation. This helps focus drivers' attention on the correct aspect of the driving experience to be evaluated.

Uses

- Automatic generation of visual scenarios from a GPS recording or from other x,y,z data imported from a text file
- Customisation of scenarios for road type, barriers, surfaces, traffic rules, etc.
- Preview of scenarios to maximise usability and suitability



Features

- Global and local smoothing and bend widening tools
- Road, environmental and traffic editing options
- Scenario preview that includes a test drive
- Data-point editing capabilities
- Customise resulting scenarios with multiple road types, barriers, surfaces and traffic signs (speed limits, etc., which can be used to control the traffic flow in the scenario). Adjust the surrounding scenery with macro controls for gradients, trees and types
- Display height profile, vehicle speed and time, and time markers to assist editing

NVH Simulator Road Creator utilises data imported from GPS or coordinate data files and enables you to create customised 3D visual scenarios, which are exported to and used by the NVH Simulator and its associated modules. The editing features of Type 8601-M enable you to increase realism, which will increase driver immersion into the scenario.

Type 8601-M provides you with a myriad of tools with which to tailor scenarios to requirements for specific evaluations.

Edit Data Points

Individual data points can be selected and edited by clicking a line in the table or a point on the Track, Speed or Profile displays. The coordinates and speed for an individual point can be entered manually. Additional points can be added manually or automatically ready for editing to the user's precise requirements.

Smoothing, Widening, and Height Variety

Smoothing allows curves to be taken at higher speeds. This option can be used to smooth the entire course or individual sections. You can also select a range of data points and apply local bend widening. Random fluctuations can be added to the final smoothed height profile, adding realism.

Fig. 1 Example of Edit and Display Coordinates functionality

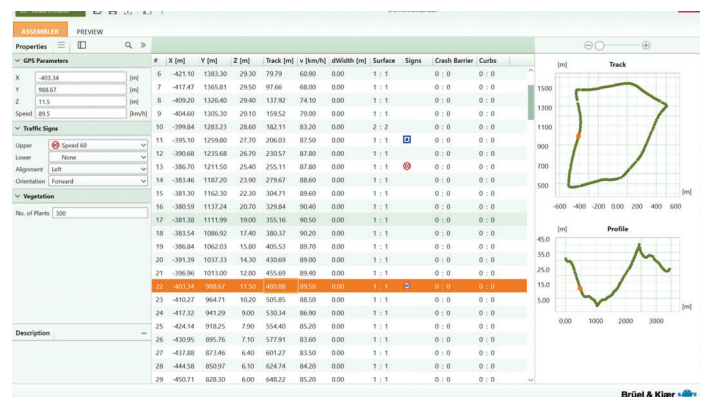
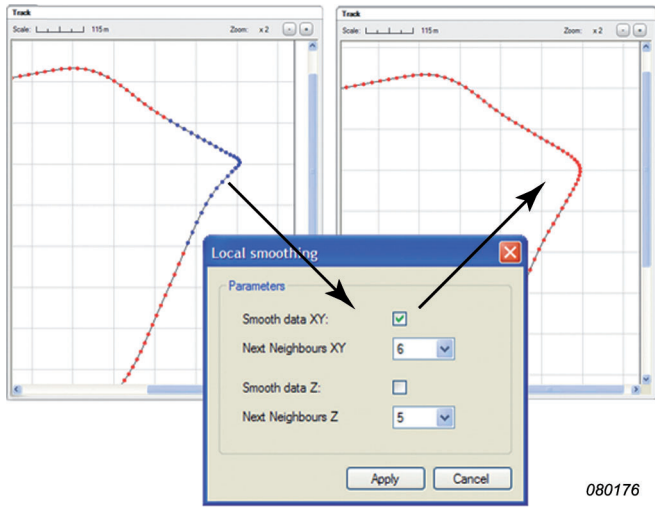


Fig. 2 Example of local smoothing of track



Export Options

Road

You can define road width, X- and Y-coordinate offset and carriageway centre, adjust start and finish, centre offset and track shape for contiguous start and finish points, add crash barriers, curbs, and specify the road surface for any section of the scenario. User road texture images can be added to the system if required – 10 basic sets of surface textures are provided as standard.

Specifications

NVH Simulator Road Creator Type 8601-M is an optional module for the NVH Simulator software. From GPS and ASCII file input data of x, y and z coordinates, Type 8601-M can generate a visual scenario automatically. Capabilities include Display and Edit, Define Road and

Ordering Information

Software with an -x suffix are available either as a node-locked or floating licence. Please include licence type when ordering:

- N: node-locked, permanent (example: 8601-M-N)
- FYG: annual floating lease, global (example: 8601-M-FYG)
- FYL: annual floating lease, local site (example: 8601-M-FYL)
- FY1: annual floating lease, Region 1, Americas (example: 8601-M-FY1)
- FY2: annual floating lease, Region 2, Europe (example: 8601-M-FY2)
- FY3: annual floating lease, Region 3, Asia (example: 8601-M-FY3)

Type 8601-M-x NVH Simulator Road Creator

Go to bksv.com/nvh Simulator to find out more about Brüel & Kjær's NVH analysis solutions. For a full list of NVH Simulator modules and options, see the [product data](#).

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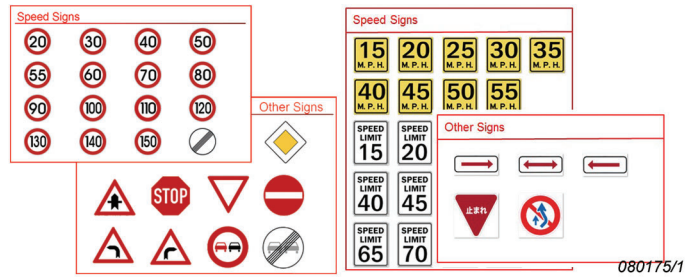
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Traffic

Place traffic signs in the scenario for increased driver immersion. If the *Traffic obeys speed limits* option is selected, traffic speed will be determined by the speed limit, which is defined by traffic signs for the current road section.

Fig. 3 Examples of the traffic signs used to control traffic speed and flow



Environment

You are able to stipulate how topographically varied and forested the terrain should be. This feature is intended to provide some visual interest and help focus drivers' attention on the road and driving experience.

Scenario Parameters, Apply Smoothing, Add Road Signs (which control the speed of the traffic), Assign Road Surfaces, and Auto-Create NVH Simulator Visual Files

OPTIONAL HARDWARE AND SOFTWARE

- | | |
|-----------------|--|
| Type 4100 | Sound Quality Head and Torso Simulator (see BP 1436) |
| Type 4101-B | Binaural Microphone (see BP 2562) |
| ZH-0677 | RME® Fireface UC Audio Interface |
| HT-0017 | Sennheiser HD650 Headphones |
| Type 3663-B-080 | 8-ch. Sonoscout System, with LAN-XI 8-ch. input + 2-ch. CAN input module, battery module, WLAN frame, and Sonoscout licence in one portable case (see BP 2463) |
| BZ-5950-L | Sonoscout NVH Recorder, licence (see BP 2463) |

SUPPORT PRODUCTS

Software maintenance and support is included in all annual floating lease licences. For permanent, node-locked licences, the following software maintenance products are required:

- | | |
|-------------|--|
| M1-8601-M-N | Software Maintenance and Support Agreement for Type 8601-M-N |
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