

Vibration test services of the Human Factors Research Unit

Measurement of exposures to whole-body vibration

Description

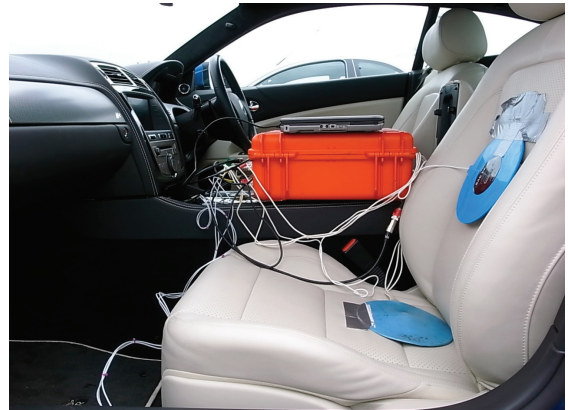
The Human Factors Research Unit performs on-site measurement, evaluation and assessment of vibration in road, rail, air and sea transport and buildings in accord with standards:

- ISO 2631-1 (vibration and shock: general requirements)
- ISO 2631-2 (building vibration)
- ISO 2631-4 (vibration in fixed-guideway transport)
- ISO 2631-5 (shocks)
- BS 6841 (vibration and shock)
- BS 6472-1 (building vibration)
- BS 6472-2 (blast-induced vibration)
- ISO 8041 (measuring instrumentation)

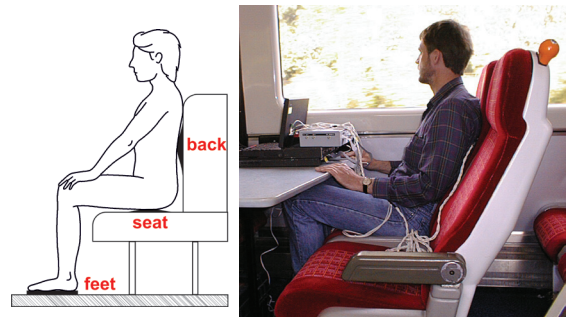
We have the capability of measuring motion in six axes: fore-and-aft, lateral, vertical, roll, pitch, yaw.

Data acquisition and analysis system

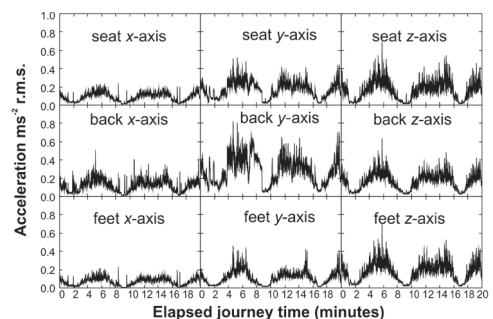
We conduct measurement and evaluation of vibration using our in-house *HVLab* data acquisition and analysis system. The *HVLab* instruments and *HVLab* software have been developed from research on human responses to vibration conducted in the Human Factors Research Unit.



Measurement of vibration in cars



Measurement of vibration in trains



Root-mean-square acceleration of vibration occurring in nine input axes for a seated rail passenger



The Human Factors Research Unit operates a Quality Management System which complies with the requirements of ISO 9001