

High-speed video analysis

Airbus has many years of experience using High Speed Video(HSV) to capture high-velocity events such as debris or bird impacts on aircraft structure. The ability to view rapid events in slow motion enables a much more in-depth analysis into the behaviour or response of structures under load.

Recent developments in digital HSV technology mean that this sort of analysis can be made routine, particularly as captured video can be viewed immediately.

Airbus will be offering a high-speed video service in the practice area for you to have your car filmed using a Photron APX Ultra RS high-speed video camera (see www.photron.com) capable of 3000 frames per second at 1024 x 1024 pixel resolution.

Examples of what you might want to investigate are:

- Analysis of wheel spin during acceleration
- Suspension dynamics during cornering
- Braking performance

Bring a memory stick on which to save your videos so that you can view them at your leisure using any standard media player, but ensure that you have between 2-4GB of free space.

Half-hour sessions will be available, bookable on the day at the Airbus stand in the IMechE/Partners marquee. Bookings will be taken between 08:30 and 09:00; any free spaces left over can be booked subsequently for as long as they are available. A detailed timetable is given below.

	Thursday 16th	Friday 17th	Saturday 18th	Sunday 19th
Booking	12:30 – 13:00	08:30 – 09:00	08:30 – 09:00	08:30 – 09:00
Session 1	N/A	09:00 – 12:00	09:00 – 12:00	09:00 – 12:00
Session 2	13:00 – 17:00	13:00 – 17:00	13:00 – 17:00	12:30 – 14:00
All sessions ½ hour				