

D-BOX

GET INTO POLE POSITION WITH
PRECISE, HIGH-PERFORMANCE
MOTION-CUEING SYSTEMS.

Whether they are racing on a simulator for the thrill or to perfect their skills, D-BOX motion cueing is the differentiator drivers need.

Racing simulation systems are constantly being enhanced with increasingly precise technologies like better visuals, larger screens with more pixels, force feedback steering systems, and clearer sound with added channels and a larger frequency response scope.

Now there's a whole other level of innovation to help drivers maintain their competitive edge and up their game. D-BOX Technology's hyper-realistic simulation experiences stimulate your kinesthetic sense to mimic real time in the driver's seat. Using precise motion and vibration cues, these high-tech actuators generate physical cues that are both critical in car driving simulation and unparalleled in the market.





ALL-ENCOMPASSING. EXCITING. POWERFUL.

THE THRILL OF PERFORMANCE AND THE EFFECTIVENESS OF TRAINING COME TOGETHER.

While selecting, configuring, and equipping a racing simulator rig is becoming easier, very often, cost constraints outweigh all other factors when making that final decision.

Of course, motion is an indispensable cue for any simulator. However, its implementation and selection can be quite tricky. Finding the right balance between a fun and effective experience is a common challenge.

On one hand, thrilling devices are stimulating and exciting but have the tendency to shake drivers like they're on a theme park ride. On the other hand, traditional simulation motion systems are missing the finesse and precision needed to feel the ground as you drive, diminishing the experience.

D-BOX believes balancing this triad (cost - thrill effect - training performance) is the best way to increase the adoption of racing simulation and accelerate the driver's ROI.

“ *To finish first,
you must first finish.*

— Rick Mears ”

REALISTIC. INNOVATIVE. TOTALLY IMMERSIVE.

THE EVOLUTION OF SIMULATION

For more than 10 years, D-BOX has been working with the entertainment and simulation industries to create an unbelievably realistic experience for audiences and bring them in on the action through innovative, leading-edge motion solutions.

When it comes to racing simulation, we know that track personality, driving conditions and handling are the essential components to developing a driver's skills.

To help them prepare for races, we've developed a totally immersive training experience in which drivers can virtually test a track in any weather condition. Designed to mimic real time behind the wheel, this new key competitive advantage will enhance reflexes and make fraction-of-a-second enhancements that will help drivers get closer to pole position.



“ *There is no glory in practice, but without practice, there is no glory.* ”



BEAUTIFULLY ENGINEERED. PRECISE. TRUE-TO-LIFE.

Hardware

D-BOX motion-cueing systems are evolvable and scalable. Integrated into a seat, platform or other surface, they are designed to simulate a range of textures and scalable axes of movement. Whatever you require, D-BOX can help you select the best arrangement of actuators for your application, on budget and on time.

Software

D-BOX interactive software uses motion algorithms to respond to user commands. Motion signals are sent to our motion controller that decodes the signal and sends the queue to our motion actuators. D-BOX motion specialists support your integration to replicate all vehicle movements from your simulator. These include vehicle position, acceleration, suspension, engine vibrations and movement of articulated parts.

Impactful

Optimal simulation training removes the psychological barriers to learning, developing psychomotor reflexes that respond to real-life situations. D-BOX immerses pilots, trainees and testers in the simulation by replicating the platform's movement, while using rich motion cueing to replicate vibrations and all vehicle movements.

Affordable

Traditional training simulators are not necessarily cost effective. D-BOX Motion Systems deliver state-of-the-art simulation at a fraction of the price. What's more, our interoperability and simple deployment reduce the overall cost of managing a simulation training and testing program.

Easy to deploy

Because operational requirements and situations can quickly develop and change, you need simulation systems that can be rapidly deployed anywhere, at anytime. D-BOX technology is a game changer, thanks to its ease of installation, low electrical power requirements, low shipment weight and reduced deployment time.

Commercial Off-the-Shelf

As an interoperable COTS system, the D-BOX solution is affordable and reliable. Our technology is supported and documented, and therefore easy to integrate and manage. Users can access all of our expertise, including motion code, behavioural subtlety and vibrations.

“ *The driver of a racing car
is a component.*

— Juan Manuel Fangio ”



RELIABLE. ADAPTABLE. IMPRESSIVE.

Let the games begin. For real.

A PRE-INTEGRATED MOTION SOLUTION - READY TO CONNECT

Simply connect a game title and bring kinesthetic cues to any racing simulator, instantly improving thrill level and training transfer.

Bridging the gap between low end vibration devices that do not generate motion and very complex hexapod structures that do not generate very accurate vibrations, D-BOX brings second-to-none believability to car simulation.

Bottom line? D-BOX Motion Systems brings real life motion and vibrations to the virtual world creating a fully immersive, unparalleled gaming experience.

OPTIMAL TECHNOLOGY THAT SIMULATES REAL-LIFE MOVEMENT

D-BOX Motion Systems enable you to develop highly reliable training and analysis applications that reproduce with an amazing precision and adaptation to generate variable conditions, including:

- ▶ Pavement variations
- ▶ A vehicle's physical reaction to acceleration
- ▶ Braking
- ▶ Cornering
- ▶ Suspension interaction feedback
- ▶ Speed
- ▶ Extreme weather conditions

By integrating D-BOX Motion Systems, drivers can wrap their hands around an incredibly powerful and reliable simulator that responds to on-screen situations and user responses and utilizes kinesthetic cues to build and analyze a driver's muscle memory.

“ *I am an artist.
The track is my canvas and my car is my brush.*

– Graham Hill ”



UNPARALLELED. UNDISPUTED. UNBELIEVABLE.

The real immersion you're looking for.

By partnering with some of the world's finest manufacturers, D-BOX is incorporating its motion system into top-tier race simulators and giving gamers a completely immersive, unbelievably realistic racing experience.

You'll literally feel like you're in the car on the racetrack.



VIRTUAL GT: SIMULATOR MAKERS

VirtualGT simulators combine audio, video, vibration, motion and race car control technology in unique ways to create the most authentic racing experience. Instead of designing simulators like a race car, VirtualGT's design is based on multi-media theatre technology that tricks the mind into thinking it is driving a race car.

The approach encompasses special seating, immersive triple-screen video and well-designed effects including motion, which all work together in a balanced way to heighten the sense of reality.

“D-BOX is the world's best motion system for our concept because it blends together with all of our other effects in such a seamless way. If motion becomes noticeable, that means it's not realistic. When simulation is perfect, you don't even realize what's happening.”

— Paul Stary
CEO and President of VirtualGT

OB PRESTIGE: LUXURY VEHICLE DEALERSHIP

All of OB Prestige Auto's customers share one passion: cars. Some come in to upgrade their Lamborghinis while others trade their BMWs for Turbo Porsches, or find the muscle car that will be their perfect retirement gift.

To help them decide is a VRX simulator on the showroom's second floor. Haig Kanadjian, Performance Specialist at OB Prestige, refers to it as “a piece of art to look at”. The three-screen simulator helps customers operate a car - before they get it on the road. Users can practice handling the road by customizing suspension and tire settings, graphics, dimensions and feel. “The simulator is the closest thing to being on a race track,” says Kanadjian.



“If we can get you behind a simulator and then behind the wheel, you’ll be confident enough to know what the car is doing because you’ve been in that type of situation before,” explains Kanadjian.

For car dealerships these days, it’s hot with customers looking to try out a new car, practice racing or just come in with their friends and have fun. It adds a fun-loving vibe to the location, which also features pinball machines for kids. People can even rent it out by the hour at an accessible rate for entertainment purposes.

“It’s a cool product to have here on display, and it adds to the value of the dealership, services and fun factor!” Kanadjian says. “Everyone instantly becomes a kid when they try this machine.”



LAURENS VANTHOOR: PROFESSIONAL RACECAR DRIVER

Laurens Vanthoor has his dream job. At 23, he’s a professional racecar driver. Racing is his job. And he does his job well. He drives for Audi, competing mostly at the international level. Like most drivers, Vanthoor got his start in Go Karts. Starting at age 12, he progressed gradually from regional to national to international competitions before graduating to Formula 3 racing. He mostly races in the GT category behind the wheel of an Audi R8.

In order to give himself a competitive edge, Vanthoor started using a basic simulator back in 2012. In 2014, he upgraded to a Vesaro D-BOX enabled simulator, and he says it’s brought his training to a whole new level. He uses it up to 4 times per week.

“People who compare it to a video game don’t know what they’re talking about. After training on my Vesaro simulator for a few weeks, I went to a friend’s house and we were playing a driving videogame. I couldn’t get over the difference. One has nothing to do with the other.”

“It was like mountain biking, but using a 10-year-old city bike,” he said. “Once you get used to the equipment I’m using, you really feel the difference when you use anything else.”

Before adopting D-BOX Motion Systems as part of his training, Vanthoor admits he was skeptical. But he became a believer the first time he used it to test drive a track he’d never been on.

“When I finally got onto the track afterwards, I was really surprised at how accurate it was. Everything felt so familiar. The feedback from D-BOX Motion Systems has been incredibly realistic.”

D-BOX MOTION-CUEING SYSTEMS FOR ALL RACING SIMULATORS

D-BOX Technologies Inc. designs, manufactures and commercializes cutting-edge motion systems intended for the entertainment and industrial markets.

D-BOX offers the most optimized, interoperable, engaging and easy-to-deploy motion system on the market today.

D-BOX can help you deliver the ideal balance of cost, thrill effect and training performance and make your racing simulator the best.

Talk to us today.

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