

Vortex Studio Essentials Edition

overview /

Vortex Studio Essentials is a free edition providing access to the core capabilities of Vortex Studio, CM Labs' unified simulation and visualisation platform, including its powerful desktop applications, integrated visualisation engine and physics-based multibody dynamics engine. Vortex Studio provides access to all the tools you need to develop and distribute simulation applications.

benefits /

Vortex Studio Essentials frees you from the burden of adapting solutions that were not designed to achieve the level of fidelity required by real-time simulation projects. It allows you to spend more time on your project, and less time on maintaining disparate technology integrations.

KEY FEATURES /

1. Professional desktop applications to create and distribute simulations
2. Physics-based mechanical dynamics engine with advanced powertrain modeling
3. Integrated next-generation visualisation engine
4. Simple upgrade path to Vortex Studio Solo and Team editions

Accelerate Your Project.

Vortex Studio Essentials equips you with professional tools that allow you to optimize 3D assets, model equipment mechanical properties and manage virtual environments using an intuitive graphical user interface.

Attain a Higher Level of Fidelity.

Vortex Studio Essentials allows full mechanical modeling of simulated equipment, providing a level of accuracy that simulation solutions using gaming technology cannot achieve.

More than a Trial.

Vortex Studio Essentials is available free of charge without imposing time limits on how long your simulation applications can be used.



Key Features

1

Professional Simulation Tools

Vortex Studio Essentials equips you with the same integrated simulation and visualisation tools used by military training simulation integrators and off-highway OEMs, eliminating the need to maintain disparate technology integrations.

- Desktop-based mechanical modeling and environment creation application
- Central console to manage simulation content and manage roles
- Integrated visualisation engine
- Flexible C++ and Python SDK
- Simulink interface

2

Physics-Based Simulation Engine

The Essentials edition provides access to Vortex Studio's core mechanical dynamics engine, allowing you to model highly accurate contacts, collisions and vehicle systems with true-to-life performance and behaviour.

- Physics-based multibody dynamics engine
- Powertrain component simulation with support for electric and combustion engines
- Rigid track simulation
- Friction-based tire modeling
- Rigid-body hydrodynamic simulation

3


Easy Upgrade to Premium Editions

The Essentials edition uses the same platform as the Solo and Team editions, allowing you to upgrade at any time without losing your work.

- Access to advanced tire modeling, cable, earthmoving and maritime simulation capabilities
- Support for distributed simulation architecture
- No promotional rights requirement on commercial uses
- Option to guarantee software service life
- Access to CM Labs technical support



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