3D Discrete Event and Robot Simulation on the one platform. Reusable simulation components that simply snap together and layered products to make simulation available to everyone. Easy to use, minimal training, flexible and scalable.

The Product Family
Our software consists of an application developer’s toolkit and three different easy-to-use applications: a component author, layout configuration tool, and simulation viewer.

3DFramework Toolkit NEW!
This comprehensive toolkit included with 3DCreate® is ideal for developers who want to build their own high-performance, flexible and scalable simulation products for distribution. In a single package, you gain access to a discrete event simulation engine, a synchronised scene graph, a licensing mechanism and a comprehensive documentation system.

Engineers can use 3DCreate® to build and publish 3D equipment libraries and factory simulations based on engineering data contained in CAD files, brochures and technical specifications. 3DCreate includes all the functionality of 3DRealize®.

Use 3DRealize® not only to view, but also to build and test different factory layouts. Add equipment, and build a manufacturing setting by moving machinery around on the floor. Then press “run” to study the production flow, all using our easy drag and drop functionality.

3DVideo® is our free, lightweight viewer. Anyone can use this stand-alone application to view a 3D simulation of an entire factory layout by simply downloading it from the web. The visual component layout files are very small in size and can be easily sent as an email attachment.

www.visualcomponents.com
Introducing the affordable way to create your own 3D simulations and software applications

Moving from production requirements to plant implementation is a difficult, time-consuming process using standard simulation tools. Not anymore, thanks to a group of industry veterans at Visual Components, the Finland-based software company. Having grown tired of cumbersome and costly methods for creating plant simulations, they set out to change things.

That was the late 1990s. Today, their 3D software tools are used by dozens of major machine suppliers, system integrators and manufacturers. Why? Because these simulation tools allow them to easily create, reconfigure and view potential factory layouts—all of which leads to better, low-risk purchasing decisions. This is vital given the short cycles in today’s manufacturing environment. Quite simply, you need to be able to reconfigure your production lines to meet market demand. Our goal is to give you tools to do so quickly and with confidence.

Simulation software for every skill set - at a fraction of the cost

With most 3D simulation software, the total cost of ownership is up to ten times higher than with Visual Components’ solution. First, conventional software is complex and requires a substantial capital investment. Secondly, training and maintenance is time-consuming and costly. And finally, in the end, only a handful of experts are able to operate or use it.

Now, for a fraction of the cost, Visual Components’ software allows 50 times more people within your company to configure layouts and view web-based 3D simulation files. And it’s so user-friendly that you’ll be up and running in half a day. Since so many more people can take advantage of Visual Components’ solution, it’s much more affordable than standard applications. Now, even small to medium-sized companies can enter the world of simulation.

Our product family is based on a layered concept, meaning that there is an application to meet the needs of each participant in the process. Engineers can use 3DCreate® to build a library of 3D modules based on imported CAD files and prototype new concepts. Salespeople, managers and others can use 3DRealize® to configure layouts with the help of user-friendly drag and drop functionality. These 3D simulations can then be viewed by anyone, in and outside of your factory, using 3DVideo®. And, for companies wanting to develop their own specialised simulation applications, 3DCreate® now ships with a software development toolkit that lets your developers concentrate on the application while harnessing “best of breed” technologies, developed and maintained by us.

Say good-bye to expensive, one-off simulations

Once the 3D simulation ‘modules’ have been created, they can be reused. Users can pass them on throughout the organisation, and customise them to suit different environments—without the time-consuming rework associated with traditional simulation techniques.

Sales staff, purchasers and marketing departments all benefit from the cost-savings, since the simulations can also be saved as graphics files and used in print materials. The simulation files are lightweight, making them easy to circulate and view from any PC. And they can be viewed by anyone—for free.

Use your own controllers to reduce error in simulated results

No matter how fast an individual machine may be, what counts is how fast you get products out the door. That’s why our software is also built to show the flow of materials in your factory, as well as to calculate actual production output.

Unlike other software, which relies on potentially faulty estimates, our software uses your existing control mechanisms and correct manufacturer settings—to get exact results every time. In other words, it’s a simulation tool with realistic behaviours, perfectly designed to imitate your production lines, exactly as they will work on the factory floor. In fact, with 3DCreate®, you can even create helpful 3D diagnostic displays to embed in the control panels of your shop floor machines.

"Visual Components offers machine builders, system integrators and companies using complex turn-key manufacturing solutions a simple, quick and highly cost effective way to build and simulate their total process solutions."