VISUAL COMPONENTS
4.0

THE NEXT GENERATION OF 3D MANUFACTURING SIMULATION

Visual Components 4.0 is our new family of 3D manufacturing simulation products. Designed for manufacturing professionals and built on a powerful, flexible, and scalable platform.

	ESSENTIALS	PROFESSIONAL	PREMIUM
LAYOUT CONFIGURATION	■	■	■
CAD COMPATIBILITY	■	■	■
PROJECT READY DELIVERABLES	■	■	■
SIMPLE ROBOTICS	■	■	■
COMPONENT MODELING		■	■
ADVANCED ROBOTICS			■

V VISUAL COMPONENTS

LAYOUT CONFIGURATION

The core application of Visual Components Essentials. Quickly build layouts by dragging components from the eCatalog directly into the 3D world, and connecting compatible components via the plug-and-play feature. Use the properties editing feature to modify pre-defined component parameters, such as dimensions, speed, and color. Take advantage of our component library with more than 1,200 pre-built conveyors, industrial robots and other components from over 30 of the largest brands in industrial automation.

CAD COMPATIBILITY

Import your CAD files directly into the 3D world. Visual Components Essentials supports CAD file types from many of the leading CAD vendors, making it easy to import geometry files created with popular software applications by Autodesk, Dassault, PTC, Siemens, and others. We're compatible with the most widely used CAD formats, so you can natively import geometry files the way they were designed.

PROJECT READY DELIVERABLES

Easily create presentation ready content of your production solutions. Capture and export high-resolution screenshots from the 3D world directly into your presentations. Record and export video in up to 4K HD quality. Create animated and interactive 3D PDFs with embedded simulations, built-in navigation and playback options, and bill of materials. Convert 3D layouts to presentation-ready 2D drawings in seconds with the new 2D drawing template. Experience your solutions in VR or share them on-the-go with our mobile app.

SIMPLE ROBOTICS

A simple but powerful package of features for defining and modeling robotic behavior. Simple robotics has built-in features for robot jogging, analyzing reachability and collisions, and defining robot logic and postures with control flow statements.

COMPONENT MODELING

Bring CAD files to life with our robust component-modeling tool. Visual Components Professional lets you customize the building blocks of components: geometry, behaviors, and properties. You can add kinematic structures and functional behaviors to imported CAD models, modify feature details of existing models, and build your own personalized library of components.

ADVANCED ROBOTICS

Visual Components Premium provides features for performing advanced robots applications, such as robot teaching and offline programming. You can teach and simulate paths of positions with robots. The curve-teaching tool helps to simplify and accelerate robot path planning, by analyzing object geometries, making paths predictions, and suggesting robot paths. The topology API provides a feature recognition service that can be used to develop your own robot path planning and teaching tools.