



Operator uses hands-on training environment to learn assembly process.

SmartScene™ is the first application to fully exploit realtime 3D technologies to train, certify, and maintain efficient workforces, and to enable man-in-the-loop virtual prototyping processes. SmartScene uniquely fuses industry-leading realtime technologies with an intuitive two-handed interface, creating the most efficient immersive technology available. Technicians in

manufacturing industries—such as aircraft, large equipment, or automobiles—can operate within minutes in a hands-on, interactive, realtime environment. SmartScene works equally well for digital training or prototyping, enabling you to save time and money in turning potential into reality.

- ◆ Ideal for large-scale manufacturing, assembly, or field support activities
- ◆ Streamlines creating and maintaining a well-trained, highly competent, flexible workforce
- ◆ Shrinks time and cost of ramp-up on new designs and implementations of field modifications
- ◆ Realtime iteration and modifications of designs accelerates the creative design process
- ◆ Near-infinite reusability and adaptability of the technology guarantees further long-term savings



Digital Training: Enable Safe Interactive Repetition Of Critical Tasks

SmartScene is the first immersive training tool to put the operator or technician “in the loop” in a realtime training application—that is, to virtually recreate their true work environment. For sequential operations, such as assembly and diagnostics, the order of events is critical. SmartScene enables operators and

technicians to train interactively multiple times in realtime, prior to actual operation. In this way SmartScene increases the quality and repeatability of the work: when people are allowed to train the way they work, they more often work the way they trained.

- ◆ Workforce can train until achieving performance goals
- ◆ Workforce can train without risking product
- ◆ Workforce can perform repeat training for at-risk situations
- ◆ Workforce can train in the field for maintenance and diagnostic activities

Translate Usability Into Productivity

Usability was one of our most critical design goals for SmartScene, and users can function efficiently in this intuitive environment in less that 15 minutes. This ease of use springs from the unique ModelTime™ behaviors embedded within realtime models, coupled with

SmartScene’s intuitive two-handed interface. Operators advance rapidly once oriented to the specific training application, amplifying the value, quality, and flexibility of the process.

- ◆ Enables repetitive training in an immersive, navigable environment
- ◆ Two-handed interface allows unrestricted natural manipulation of objects
- ◆ Enables unlimited viewpoints

Digital Prototyping: Bringing Productivity To The Development Phase

SmartScene’s key features make it the premier choice for digital prototyping as well as training. Prototyping in realtime 3D enables developers to arrive at better solutions earlier in the design process,

saving both time and money. Designs can be “built,” tested, modified, and re-tested interactively in realtime.

- ◆ Identify problems at the earliest stages
- ◆ Test solutions before design advances
- ◆ Enable customers or non-technical personnel to have early input
- ◆ Confirm fit, scale, and function of virtual products

SmartScene: Taking Digital Training And Prototyping To New Heights

As competition increases across the board, demand for improvements in training and prototyping increases accordingly. Efficient training and product development fuel competitive growth. SmartScene delivers the productivity, creativity, and efficiency that are key to competitive operation.



FEATURES Benefits

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| <ul style="list-style-type: none"> Realtime 3D Two-handed interface Interactive Smart Behaviors SmartScene API Reusable Integrated with MultiGen Smarts Editor | <ul style="list-style-type: none"> ▶ User operates in an easily navigable, familiar environment with unlimited viewpoints ▶ Easy to learn; interface can be used repeatedly for different courses; minimizes training and retraining time ▶ User can handle and maneuver virtual objects in realtime before moving to actual operation ▶ Exact positioning of models in virtual world not necessary; user can focus on learning process ▶ Product is scalable, flexible, and extensible to enable scenario generation beyond traditional classroom capability ▶ Technology allows limitless repetition for interactive training; can be readily altered to meet requirement changes ▶ Familiar environment; part of the complete MultiGen realtime 3D solution ▶ Option to MultiGen modeling tools; enables user to add required behaviors to models easily |
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