

VIRTUAL REALITY SOFTWARE TOOLKIT



CREATE 3D SIMULATIONS FAST!



- Native VR hardware support
- Scripting with Python
- Import 3D models, sounds and videos
- Advanced avatar features
- Cluster & CAVE ready
- Publish as executable with royalty free redistribution





VIRTUAL REALITY TOOLKIT

RAPID PROTOTYPING FOR INTERACTIVE 3D CONTENT

What is Vizard?

Create immersive 3D interactive simulations fast! Whether you are experienced at building 3D multimedia applications or completely new to the world of 3D graphics, Vizard gets you started instantly and provides the resources to deploy even the most challenging applications. Custom simulations for product visualization, computer-based training, architectural walk-thrus, and entertainment are now easily within your grasp.

Native VR hardware support

Vizard supports nearly all standard virtual reality hardware devices, including motion trackers, haptic interfaces, data gloves, head-mounted displays, 3D projection systems, CAVEs, clusters, and many other peripherals.

Scripting with Python

Vizard abstracts the field of 3D computer graphics and places it in your hands through a simple scripting language called Python. You'll quickly see how powerful this interface between technologies is and what it enables you to build so rapidly. The Open GL-based architecture of Vizard allows fast and efficient rendering of virtual environments.

Import 3D models, sounds and videos

Vizard imports industry standard 3D model formats ('DAE', 'WRL', 'OSG', '3DS', 'OBJ', 'FLT', 'TXP', 'GEO', 'BSP', 'MD2', 'AC', 'LWO', 'PFB') as well as most standard image formats ('JPG', 'BMP', 'TIF', 'GIF', 'PNG', 'RGB', 'RGBA', 'DDS', 'PIC', 'JP2', 'PNM', 'TGA') letting you immediately leverage existing content or easily import new. A 3D Studio Max exporter is available for optimizing your art-flow process.



Advanced avatar features

Built-in human face and body models and an accompanying behavior designer offer a powerful tool to almost instantly insert virtual humans into existing environments. A high-level controller handles sequencing of complex behavior. WorldViz also provides a large selection of additional high quality avatars available for purchase.

Cluster and CAVE ready

Render a simulation across multiple computers. Synchronization across clusters is automatically handled by Vizard. Included is a module for deploying any simulation to a multi-wall display (CAVE) setup.

Publish as royalty free executable

Vizard allows you to build applications as executables. Those applications can be distributed without royalties. This allows to share and sell applications made with Vizard, and let anyone run them without installing Vizard.

Support

WorldViz offers a world-class support infrastructure making available our outstanding technical support staff. This provides you forum-based or one-on-one communication with highly qualified technicians, the majority of whom have extensive experience using our tools from the perspective of demanding customer applications.

Free 90 day trial

Experience all of Vizard's features by downloading today at www.worldviz.com/download

Vizard Lite Edition \$49

Perfectly suitable for demonstrations, testing, and even creating fully functioning simulations. Purchase it today at the WorldViz online store.

DETAILED FEATURES

- Vizard embeds the powerful Python 2.4 language
- OpenSceneGraph based enabling low-level extension
- Cluster ready
- Publish to executable, royalty free

SUPPORTED

MOTION TRACKERS

- WorldViz PPT
- Polhemus Patriot, Liberty, Fastrak, MinuteMan
- InterSense InertiaCube2/3, IS-600, IS-900, IS-1200
- Ascension Flock of Birds, MotionStar
- MotionAnalysis EvaRT
- Xsens MT, Moven Studio
- PhaseSpace IMPULSE
- Vicon
- MotionNode
- Northern Digital Optotrak
- VRPN trackers
- VRCO trackd

- Motion capture with WorldViz Live Characters
- Real-time physics
- Web/video camera feeds
- Stereo rendering: passive, active, anaglyphic, multi-screen
- Character (human biped) formats
- Augmented Reality via ARToolworks

SUPPORTED DISPLAYS

- nVis nVisor HMDs, Virtual Binoculars
- Sensics piSight
- Fakespace Labs Wide5
- Virtual Research VR1280
- eMagin Z800 3Dvisor
- Vuzix VR920 HMD
- 5DT HMD 800, Virtual Binoculars
- Immersive Display Solutions dome displays
- Any CAVE and stereo display system

OTHER INPUT DEVICES

- SensAble PHANTOM OMNI and other OpenHaptics supported haptic devices
- 5DT Data Glove
- Immersion CyberGlove
- 3Dconnexion SpaceBall, SpaceNavigator
- Cedrus response pads
- Arrington Research ViewPoint EyeTracker
- AuSIM 3D sound system
- LaserAid SpaceGrips
- Any DirectX compatible joystick



27 West Anapamu Street | Suite 101-121
Santa Barbara, CA 93101 | USA
Phone 805.966.0786
Fax 866.226.7529
Toll-free 888.841.3416
E-mail contact@worldviz.com

