



SGI™ Reality Center™ 1000D

Immersive Visualization Desk for the Office and Lab

Features

- Fakespace Mini WorkBench
- Footprint 48" x 57" (122 cm x 145 cm)
- 44" (112 cm) screen size, adjustable angle from 15° to 60°
- Electrohome Marquee 8500 Ultra stereoscopic CRT projector, 1280x1024
- StereoGraphics CrystalEyes active stereo shutter glasses
- Ability to serve workgroups of 1–2 persons, plus observers
- Folding, wheel-mounted, portable design
- Fakespace PINCH gloves
- Head and hand tracking
- With an Onyx2 workstation, provides unsurpassed stereoscopic resolution and performance

The Hands-On Virtual Reality Solution

Today's scientists, engineers, designers, and analysts are under constant pressure to produce more results, more quickly. To expedite insights to complex problems and increase productivity, SGI offers innovative, cost-effective Reality Center desk solutions. This product line includes a sophisticated, interactive virtual modeling station that enables real-time simulations of products and processes. The new Fakespace® Mini WorkBench™ is the first immersive group visualization solution that fits right into your office, lab, or cubicle.

Silicon Graphics® Onyx2™ Performance and High Resolution

SGI Reality Center desks are based on the powerful Onyx2 visualization workstation. The only off-the-shelf UNIX® supercomputer designed to drive virtual environments, Onyx2 simultaneously computes and processes 3D graphics, imaging, and video data in real time. Its industry-leading feature set includes clip-mapping, texture-paging, volume rendering, anti-aliased full-frame HDTV display, multiple visual display channels, and a variety of tools for managing video, audio, and advanced user interface devices.

The Fakespace Mini WorkBench

Designed and built by world-renowned Fakespace, Inc. [creator of the BOOM®], the self-contained Mini WorkBench comprises a large, bright, adjustable visualization screen and StereoGraphics® CrystalEyes® shutter glasses for true stereoscopic visualization. A pair of tracked PINCH™ gloves allows real-time, two-handed data manipulation, while head tracking corrects stereo image perspectives in real time as you move naturally around the desk. This cost-effective solution accelerates experimentation, product design and development, data analysis, and mission planning—enabling dramatic breakthroughs in your scientific, manufacturing, and government projects.

Industry-Leading Applications

SGI works closely with the world's leading software companies to deliver fully integrated, optimized software for its Reality Center solutions. As a result of these strong partnerships, proven industry applications for scientific visualization, geophysical exploration and production, engineering analysis, and digital prototyping are available to leverage the unique capabilities of this immersive visualization environment.

For custom applications and code optimization, including remote collaborative visualization over high-bandwidth networks, the SGI Global Consulting Services team is available to offer expertise and support.

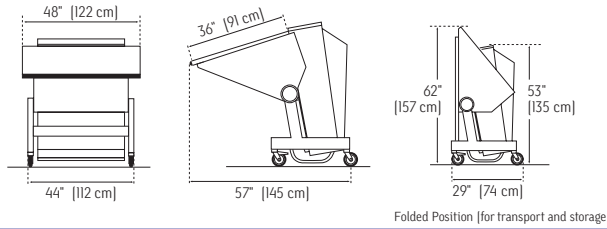


Supporting Your Transition to New Work Processes

With 15 years of experience developing and supporting virtual reality applications, SGI understands the complex issues involved in making the transition to immersive visualization and can help your organization accomplish

the transition with ease. SGI solutions and services enable new opportunities for taking the lead within your field, complementing and dramatically improving your work processes to achieve vital strategic advantage.

Fakespace Mini WorkBench Technical Specifications



Display

- Screen size 44" [112 cm] diagonal display area
- Viewing angle 15°–60° [no projector recalibration needed]
- Projection system One Electrohome Marquee® 8500 P43 Ultra stereoscopic CRT
- Resolution 1280x1024 [typical]
1500x1100 [ANSI pixels]
2500x2000 [addressable]
- Frequency 120 MHz bandwidth [–3 dB] accommodating 4 ns pixels and digital clock rates over 250 MHz
- Brightness 225 ANSI lumens
- Projector control features Infrared remote control
Menu-driven, multilingual interface with on-screen help

Interactive Devices

- Input One pair Fakespace PINCH gloves [for interacting with data]; magnetically tracked; comes with all associated hardware and cabling
- Tracking Polhemus trackers for PINCH gloves and eyewear

Eyewear

- Stereoscopic glasses One pair StereoGraphics CrystalEyes eyewear [head tracked]; active shuttered; comes with all associated hardware [including emitter and cabling]

General

- Footprint *Operational:*
W: 48" [121.9 cm]
H: 56" [142.2 cm] max. height with screen angled
D: 57" [144.8 cm]
Transport mode:
W: 48" [121.9 cm]
H: 62" [157.5 cm]
D: 29" [73.7 cm]
- Drivers VLIB [Stereoscopic Interaction Library by Fakespace] included
- Power 90 to 264 VAC universal input
- Weight 280 lb [127 kg] [maximum]
- Inputs RGB HV, RGBS [standard] RS 232 with loop through
Optional interface modules
- Cables All necessary cabling included: 13W3-RGB for computer-to-projector
Serial cables for tracker
Special cables for stereo emitters
- Other Heavy duty casters
Full metal enclosure and internal supports for first surface mirror

Onyx2 Technical Specifications



Onyx2
InfiniteReality2™
Desktop

Onyx2
InfiniteReality2
Rack

- Frame buffer size/pipeline 80MB to 160MB 80MB to 320MB
- Display channels/pipeline 2 or 8 2 or 8
- Display capability VGA to HDTV VGA to HDTV
- Standard monitor size and resolution 24" 1920x1200 24" 1920x1200
- CPU MIPS® R12000™ MIPS R12000
- Number of CPUs 2 to 4 2 to 128
- RAM memory 256MB to 8GB 256MB to 256GB
- Disk storage [internal] 1 to 5 9.1GB/18.2GB Ultra SCSI 1 to 11 9.1GB/18.2GB Ultra SCSI or 10 3.5" Fibre Channel
- Expansion slots 4 XIO slots standard and 3-slot PCI optional 9 XIO slots standard and 3-slot PCI optional
- Dimensions W: 20" [51 cm]
H: 26.5" [67 cm]
D: 24" [61 cm] W: 29" [74 cm]
H: 73" [185 cm]
D: 39" [99 cm] [per rack]
- Weight [maximum configuration] 215 lb [98 kg] 800 lb [364 kg] per rack
- Standard monitor weight 90.2 lb [41 kg] 90.2 lb [41 kg]



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