Image courtesy of Penn State University

Image courtesy of TARDEC

CAVE®

The original and most widely used spatially immersive environment

CAVE (an acronym for "CAVE Automatic Virtual Environment") is a room-sized advanced visualization solution that combines high-resolution, stereoscopic projection and 3D computer graphics to create the illusion of complete sense of presence in a virtual environment. The CAVE was the first virtual reality technology in the world to allow multiple users to fully immerse themselves in the same virtual environment at the same time. Today, more CAVEs are installed in visualization facilities around the world than any other spatially immersive display system. The CAVE is available with four projected surfaces (3 walls and floor); five surfaces, or fully enclosed six surface configurations for complete virtual immersion.
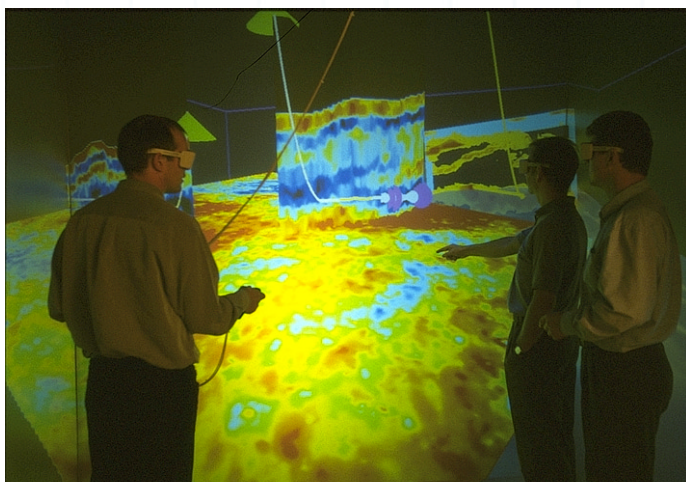

Image courtesy of Norsk Hydro

Fakespace
SYSTEMS

Collaborate. Discover. Learn.

CAVE®

Collaboration Scale: up to 6 people

	Digital Specifications	Analog (CRT) Specifications
DISPLAY		
Stereoscopic Display	• Available in active stereo, passive stereo and monoscopic	• Available in active stereo, passive stereo and monoscopic
Environment Size	• 8'h x 10'w x 10'd (2.4m h x 3m w x 3m d) • Other sizes also available	• 10'h x 10'w x 10'd (3m h x 3m w x 3m d) • Other sizes also available

Wall Screens	• Three individual soft screens for minimal corner seams
	• Four surfaces - 3 walls and floor or ceiling
	• Five surfaces - 4 walls and floor
	      - 3 walls and floor and ceiling
	      - 4 walls and ceiling
	• Six surfaces - total immersion - 10' screens
		• Three individual soft screens for minimal corner seams
		• Four surfaces - 3 walls and floor or ceiling
		• Five surfaces - 4 walls and floor
		      - 3 walls and floor and ceiling
		      - 4 walls and ceiling
		• Six surfaces - total immersion - 10' screens

Floor Screen	• Durable, epoxy floor color matched for image continuity	• Durable, epoxy floor color matched for image continuity
Projection System Options	• 2000 to 6000 lumen digital projection - 1280x1024 • 1600x1200 active stereo with Fakespace Beacon™ projection technology - 3500 lumens	• CRT projection - 240 lumens
STRUCTURE		
Super Structure	• Tracker-friendly metal structural supports for rigidity • Full width entrance ramp	
Approximate Footprint	• 11.6' x 30'w x 22'd (3.5m x 9m x 6.7m) • Room dimensions to be discussed with Fakespace	• 11'h x 30'w x 20'd (3.4m x 9m x 6m) • Room dimensions to be discussed with Fakespace
OPTIONAL PERIPHERALS		
Stereoscopic Eyewear	• Active shutter glasses • Metal frame or paper polarized glasses for passive stereo applications	
Tracking	• Electromagnetic, inertial acoustic and optical based systems available • Optimal tracking solution will be recommended based on requirements	
Projection	• Multiple projector tiling per wall for ultra-high pixel density • Projection of entire space in front of open configurations • Single or double folded optics to reduce overall system footprint	
Interaction (tracking system required)	• Fakespace CubicMouse™ - intuitive x,y,z, volumetric analysis" • Fakespace NeoWand™ - virtual control, collaboration and navigation" • Fakespace VEST and cable management	
Audio/Video	• Various audio and video conferencing capabilities	
System Support Options	• Training, consulting and software development available	
GENERAL		
Warrant	• 90 days on-site parts and labor • Optional extended service warranties available	

Features/Benefits

- Ideal for 'inside out' reviews such as;
  - vehicle interior design
  - seismic interpretation and well planning
  - virtual walk-throughs
  - scientific/research visualizations

- Display realistic 1:1 scale images for accurate reviews or enlarge objects to enable new insight

Specifications subject to change without notice.
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Fakespace SYSTEMS