



VisWall™

HIGH RESOLUTION AND IMMERSIVE 3D DISPLAY SOLUTIONS

Visbox, Inc. provides a variety of innovative projection display products and solutions for high resolution and immersive 3D applications. Our continuing mission is to make high-end display and interaction technologies more affordable and easier to use.



VisBox™ - Immersive 3D display systems.
The VisBox is available in several different models, from the compact VisBox-HD™ stereo HD monitor to the large-screen VisBox-X2™ VR system complete with head and wand tracking.



VisWall™ - High resolution tiled display walls.
The VisWall is a scalable high resolution display achieved by the highly accurate alignment of many separate projectors. Resolutions range anywhere from 7 million pixels to over 100 million pixels and beyond.



VisBlock™ - High resolution display modules.
The VisBlock is a stackable projection cube with high pixel density and no screen border. This allows groups of VisBlocks to be used to create extremely high resolution displays that are easily reconfigurable.



VisDuo™ - Front-projected passive stereo displays.
The VisDuo is a front-projected passive stereo display. The modular design allows the projector positioning system to be removed from the telescoping ceiling mount and used as a portable tabletop projector stacker.



INNOVATIVE DISPLAY AND INTERACTION TECHNOLOGIES

VisBox™

Immersive 3D Display



Key Features:

- Bright stereo graphics (newest digital projectors)
- Large screen size within small footprint
- Multi-use: mono, stereo, tracked stereo (VR)

Turn-key VR system (optional):

- VisTrack™ wireless optical head-tracker
- 6 DOF tracked input device (wand)
- Performance of latest PC graphics hardware
- Pre-configured for common VR libraries
- Turn-key demo applications pre-installed

The VisBox™ is an affordable immersive 3D display. The system provides large, passive stereo imagery within a small footprint. The VisBox is available either as a stand-alone display or as a turn-key projection-based VR system with head and wand tracking.

The VisBox makes use of the newest in bright, sharp digital projectors. The turn-key VR option adds the newest in PC graphics workstation hardware, a 6 DOF tracked input device (wand), and the VisTrack™ wireless optical head-tracker. The result is a system that outperforms much more expensive traditional VR hardware.

The VR software environment includes a simple to use VisBox API, complete with demo applications. In addition, the system is pre-configured for use with common VR libraries such as CAVElib, FreeVR, vrJuggler, and DIVERSE. The VR system even includes pre-installed commercial VRCO software applications with a 30 day evaluation license.

The VisBox comes in four models: the VisBox-HD™, the VisBox-P1™, the VisBox-X1™, and the VisBox-X2™. In addition to the four standard VisBox models, we are available for custom hardware development for customers with special needs.

Pictured on this page is the SXGA+ resolution VisBox-X1+ from the Aeronautical Systems Center Major Shared Resource Center (ASC MSRC) at Wright Patterson Air Force Base in Ohio.

The goal of the VisBox is not only to make immersive 3D technology much more affordable, but to also make it much easier to use, maintain, and develop for.

VisBox™ Models



VisBox-HD
Stereo HD monitor

Resolution: 1920x1080
Brightness: 500 lumens per projector
Screen: 72"x40.5" visible
Size in use: 77"w x 77"h x 42"d
Size folded: 77"w x 77"h x 34"d
Mobility: casters. Rolls through doors.



VisBox-P1
Compact and Portable

Resolution: XGA (1024x768)
Brightness: 2100 lumens per projector
Screen: 80"x60" visible
Size in use: 84"w x 88"h x 55"d
Size folded: 84"w x 80"h x 33"d
Mobility: casters. Folds to 33"x80" profile to roll through doors.



VisBox-X1
Standard Configuration

Resolution: XGA or SXGA+
Brightness: up to 5100 lumens per projector
Screen: 92"x69" visible
Size: 96"w x 89"h x 60"d
Mobility: casters for movement within room



VisBox-X2
Large Screen VR

Resolution: SXGA+ (1400x1050)
Brightness: 5100 lumens per projector
Screen: 140"x105" visible
Size: 144"w x 108"h x 120"d
Fixed installation

VisWall™

High Resolution Display Wall



The VisWall™ product is an affordable and scalable high resolution display. The tiled display wall is achieved by the highly accurate alignment of many separate projectors. The VisWall allows small groups of people to collaboratively examine incredibly detailed imagery or incredible amounts of information at once.

The VisWall is custom designed and built for each customer according to size and resolution needs. Parameters include individual projector resolution, number of projectors, and individual tile size.

Example XGA (1024x768) configurations:

VisWall-9x	3072x2304	~7.1 Mpixels
VisWall-12x	4096x2304	~9.4 Mpixels
VisWall-16x	4096x3072	~12.5 Mpixels
VisWall-20x	5120x3072	~15.7 Mpixels
VisWall-48x	8192x4608	~37.7 Mpixels
VisWall-60x	10240x4608	~47.2 Mpixels

Example SXGA+ (1400x1050) configurations:

VisWall-9sx	4200x3150	~13.2 Mpixels
VisWall-12sx	5600x3150	~17.6 Mpixels
VisWall-16sx	5600x4200	~23.5 Mpixels
VisWall-25sx	7000x5250	~36.7 Mpixels
VisWall-48sx	11200x6300	~70.6 Mpixels
VisWall-60sx	14000x6300	~88.2 Mpixels

Pictured on this page is the 15.7 Mpixel VisWall-20x from the Center for Computational Research at the University at Buffalo. Many more configurations are possible, the VisWall can easily scale to 100 Mpixels and beyond!

Key Features:

- Scalable, extremely high resolutions possible
- Custom configurations available (size and resolution)
- Latest, bright, digital projectors
- Custom structure
- Custom 6 DOF projector positioners for precise alignment
- Size is ideal for small groups of people working together
- High performance graphics cluster (optional)

VisBlock™

High Resolution Display Module



The VisBlock™ product is a basic building block for very high resolution displays. VisBlocks are stackable and have a zero edge screen. This allows groups of VisBlocks to be arranged in various display configurations with no border between blocks. The small screen size gives the VisBlock high pixel density, allowing it to be used to create extremely high resolution displays. The small size also allows groups of VisBlocks to be easily reconfigured or transported.

VisBlocks are perfect for rapid experimentation with different display configurations such as planar displays of different sizes and aspect ratios, faceted displays, horizontal tabletop displays, and any combinations of the above. Much like a VisWall, a display made of VisBlocks allows small groups of people to collaboratively examine incredibly detailed imagery or incredible amounts of information at once.

Pictured on this page are 9 VisBlocks from the Gigapixel Lab at Virginia Tech. Each VisBlock is WXGA resolution (1280x720) for an aggregate resolution of over 8 million pixels.

NOTE: In addition to the standard VisBlock, we are available for development of custom block size and resolution for customers with special needs.

Key Features:

- Reconfigurable, blocks stack to form various display configurations
- Zero edge screen, no borders between blocks
- High pixel density, extremely high resolutions possible
- Latest, bright, digital projectors
- Custom configurations available (block size and resolution)
- Size is ideal for small groups of people working together

VisDuo™

Passive Stereo Display



Key Features:

- Clean and compact, only 5" lens separation
- High quality front-projection screen
- Bright stereo graphics (newest in digital projectors)
- Performance of latest PC graphics hardware
- Multi-use: mono and stereo
- Modular design: projector positioner assembly detaches from telescoping ceiling mount to become tabletop projector stacker

The VisDuo™ is an affordable, front-projected passive stereo display. The system includes two projectors mounted on a custom positioning system, a high-quality front projection screen, and stereo glasses. A high-end graphics workstation is optional..

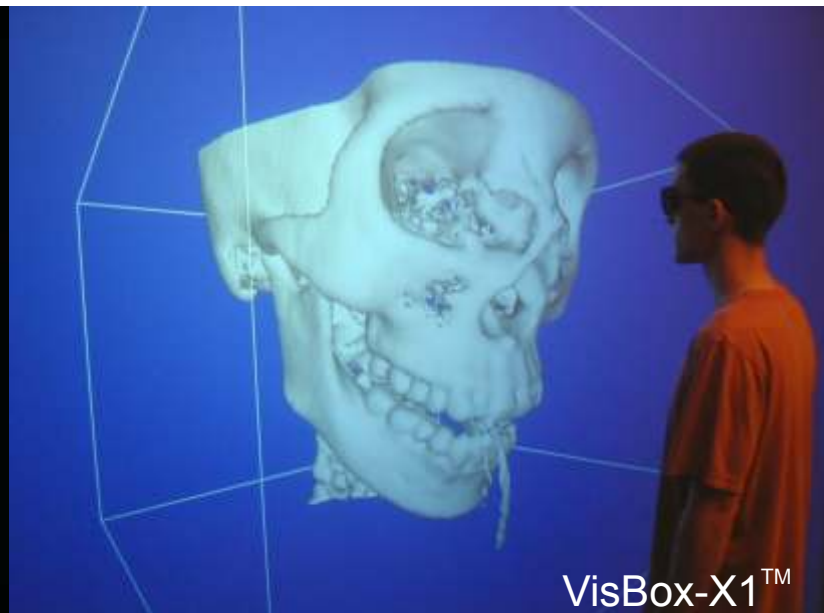
The VisDuo is a general-purpose stereo display system that can be used to display a variety of 3D stereo applications. Even applications that are not "stereo aware" can be forced to display in stereo by using software at the graphics driver level. The display is dual-use, it can also be used in monoscopic mode (one projector on) as a regular projection system for movies and presentations. **The VisDuo is the perfect addition to any conference room or classroom.**

The custom positioning system for the projectors is clean and compact, with the projector lenses only 5" apart from center of lens to center of lens. Compared to other systems for projector stacking that often have a separation of 12" or more, the VisDuo allows for close alignment of the two projected images. In addition, the modular design of the VisDuo allows the positioning system to be easily removed from the telescoping ceiling mount and used by itself as a portable tabletop projector stacker.

For XGA resolution, the complete system, including support and on-site installation, retails for less than \$20,000 US. Higher resolution projectors are also available.



9 VisBlocks™



VisBox-X1™

Items in this brochure are subject to change without any notice. For up-to-date information and to learn more about Visbox, Inc.'s various products and services, please visit our website at:

www.visbox.com



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