Custom VisWall™
High Resolution PowerWall Display Wall

visbox

Key Features:
- Scalable, extremely high resolutions possible
- Custom configurations available (size and resolution)
- Free-standing or in-wall (e.g. conference room)
- Custom projector positioners for precise alignment
- Size is ideal for small groups of people working together
- Multi-use: mono, stereo 3D, tracked stereo 3D (VR)
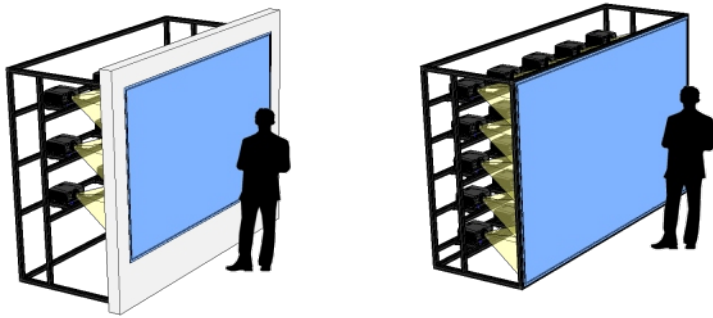
The **VisWall™** is a scalable high resolution PowerWall display. The tiled display wall is achieved by the highly accurate alignment of multiple separate projectors. The VisWall allows small groups of people to collaboratively examine incredibly detailed imagery or incredible amounts of information at once.

The VisWall is custom designed and built for each customer according to size and resolution needs. Considerations include individual projector resolution, number of projectors, individual tile size, aggregate resolution, aggregate aspect ratio (4:3, 16:9, other), aggregate physical size, throw distance (space behind screen), pixel density (pixels per inch), etc. Often, a customer has certain needs (e.g. Aggregate resolution) and constraints (e.g. Size of room) that help determine the appropriate solution.

VisWall Datasheet

System Specifications
- Resolution: see table on right
- Screen: rear projection, wide range of sizes
Includes:
- High quality rear-projection screen
- Free-standing aluminum support structure or in-wall
- Custom projector positioners for precise alignment
- High quality, bright digital projectors mounted on positioners
- Video, projector control, projector sync, and power cabling
- Installed and calibrated on-site by Visbox, Inc.

3D Active Stereo
- Active stereo emitter/hub
- 10 pairs of 3D shutter glasses

Image Generator
- One high-end graphics workstation
- Multiple Nvidia Quadro graphics cards

Rendering Cluster for large VisWalls (>16 tiles)
- One high-end workstation (the head console display)
- Cluster of rendering nodes with high-end graphics
- High-speed cluster network for optimal performance

Option: Edge Blending
- Digital edge blending
- Provides smooth transition between tiles
- Decreases overall resolution due to overlap regions

Option: A.R.T. Optical Tracking
- TrackPack4 or ARTTRACK5 system (4 cameras)
- Tracked head, tracked wand (controller)

Option: Light Block
- Fabric to enclose free-standing system
- Blocks ambient light and restricts access

Other options are also available

Information in this brochure is 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

High Resolution Applications
The VisWall enables very high resolution collaborative visualization. As the data generated by simulations or acquired from various instruments gets larger, it becomes crucial to visualize that data with a sufficiently high resolution display. Conventional display technology fails to address this issue, with the resolution of displays increasing far slower than the size of the data. The VisWall addresses this problem by providing a scalable display solution, allowing researchers to gain more insight into their data.

Example configurations:

Model	Resolution	Mpixels
VisWall-T4	5120x3200	~16.4 Mpixels
VisWall-T9	7680x4800	~36.9 Mpixels
VisWall-T16	10240x6400	~65.5 Mpixels
VisWall-T25	12800x8000	~102.4 Mpixels
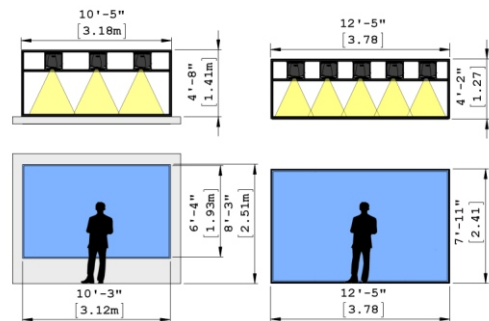
VisWall-T9W (in-wall)   VisWall-T25

Other VisWall Models

Model	Resolution	Mpixels
VisWall-4K	4096x2160	~8.9 Mpixels
VisWall-T3	4096x2560	~10.5 Mpixels
VisWall-T4	4600x2875	~13.2 Mpixels
VisWall-LCD	array of LCD panels	

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