



Design and Integration Experts for Curved and Spherical Displays



## VisionFlex

### Overview

IDSI's VisionFlex solution is a seamless cylindrical immersive display system designed for customers requiring large format displays for immersive environments. VisionFlex is specifically designed to be flexible for configuration and specification as well as being efficient to ship and install. VisionFlex is ideal for a wide range of use cases that range from gaming and portable theater up to simulation & training applications and data visualization.

VisionFlex features our semi-rigid fiberglass, roll-able (for transport) screen technology. VisionFlex can be configured to meet your circumference, Horizontal Field of View (HFOV) requirements with vertical screen height up to 2.4 meters. VisionFlex is coated with a projection-specific coating chosen to meet the display requirements.

The VisionFlex solution is comprised of the custom sized screen with rigid backer frame, screen mounting (ceiling, floor or inset), projectors and mounts, warping and blending software tools, all power and video cables needed, and detailed written instruction set. VisionFlex is available in a range of standard sizes and can be custom ordered as required. VisionFlex is lightweight and is assembled on-site.

The VisionFlex solution builds on the decades of IDSI experience designing, engineering and installing cost efficient, seamless, high-resolution display solution for the simulation, training, visualization and entertainment markets. Unlike arrays of heavy LCD panels, VisionFlex is a seamless display as a result of blending multiple projectors.

### Primary Markets

- Military Simulation and Training
- Commercial Flight Simulation
- Driver Training
- Museums and Attraction
- Visualization



## VisionFlex is designed to meet several identified needs in the market:

- Seamless “immersive” visual environment that wraps around the viewer
- Priced competitively with flat panel-based solutions
- Efficiently deployed by people with limited training
- Distortion-free, wide field of view (up to 360°)
- No headset required

## Features and Benefits

Feature	Benefit
Immersive Visual Environment	No Headset Required
Large Format Display	Suitable for Group Viewing / Training
Turnkey Packaged Solution	Easy to Install with Limited Training
Aluminum Structure with Roll-able Screen	Ease of Logistics and Shipping
Customizable Diameter up to 360-degree Horizontal Field of View (FOV)	Suitable for Air Traffic Controller & Ship Bridge Sims
Up to 98” (248cm) Un-seamed Height	Suitable for Floor to Ceiling Applications
500 ft. Maximum Length	Scalable for Many Large Displays

## Applications

- Fixed Wing Flight Simulator
- Vehicle Driver Trainer Simulator
- Air traffic Control (ATC) Trainer
- JTAC / Joint Fires Trainer
- Maritime Training Simulator
- Armored Fighting Vehicle

## Example Solution Technical Specifications

Example Applications	H-FOV	Height	Diameter	Projector Quantity	Target Resolution
JTAC	220°	96” (244cm)	5m	6 - Portrait UHD	< 4 arc-min / OLP
Armored Fighting Vehicle	360°	80” (203cm)	10m	10 - Landscape WUXGA	< 3 arc-min / OLP
Ship Bridge	340°	98” (248cm)	12m	9 - Landscape WUXGA	< 4.5 arc-min / OLP
Flight Training Device	200°	60” (152cm)	4m	7 - Portrait UHD	< 3 arc-min / OLP

## About Immersive Display Solutions

IDS partners with its clients to design and integrate a range of both commercial and custom-designed cylindrical, panoramic and spherical visual display products including the necessary ancillary services to deliver cost-effective immersive simulation and training experiences to military and commercial customers worldwide.

