



Please contact us for
Custom Solutions
tailored to your needs

180° 4 metre diameter
VSS modular dome screen,
standing 2.2 metres tall

VSS Dome Screens are used by
the **Australian Defence Force**

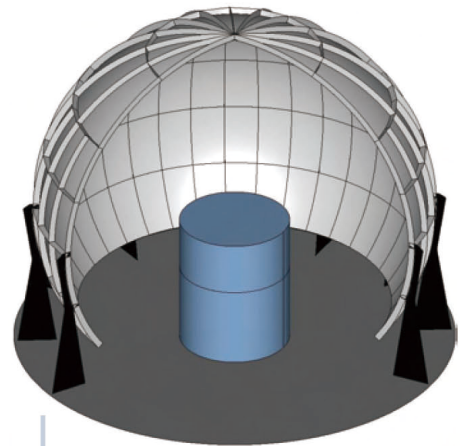


VSS Modular Dome Projection Screens

The VSS Dome System boasts an affordable, modular design that can cater to any visual or simulation display benefitting from a panoramic viewpoint.

Ultimate Immersion Maximum Effect

VSS dome design for
Helicopter Pilot simulator



VSS dome design for Close
Air Support simulator

Applications are limited only by imagination



Overview

The VSS Modular Dome System allows us to create Immersive Curved or Spherical Projection Screens of almost any size and configuration.

Using various sized panels of tough, durable ABS plastic makes it easy to design and manufacture our Dome Screens to fit any customer requirements.

Our most popular model is the 4 metre diameter 180° screen of 2.2 metres height, which will fit in most normal-sized rooms. However, VSS specializes in creating custom solutions for simulation and bespoke display needs, from oblong screens for convoy training simulators to full spheres for a completely enclosed environment.

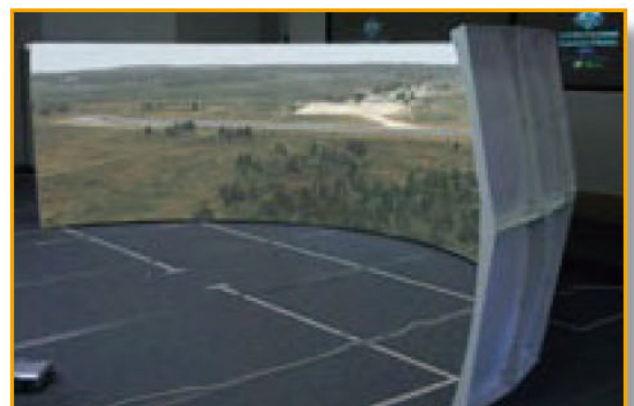
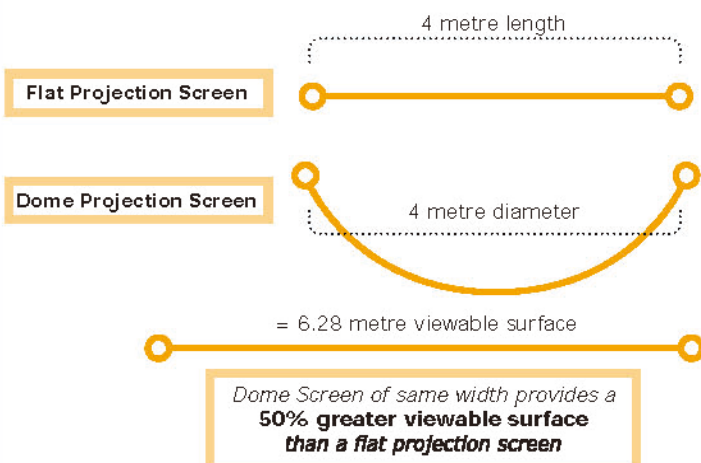
The VSS Modular Dome System is designed to be self supporting at smaller sizes, is rapidly deployable and easily erected in any internal or external environment. For larger Dome structures, custom support struts are recommended (based on site specifications).

VSS Dome Projection Screens are naturally damage-resistant and rigid enough to be suitable for long-term installations. The modular design also makes it simple to disassemble and relocate.



VSS Dome Screen used with VSS VR binoculars in Forward Observer/JTAC simulation

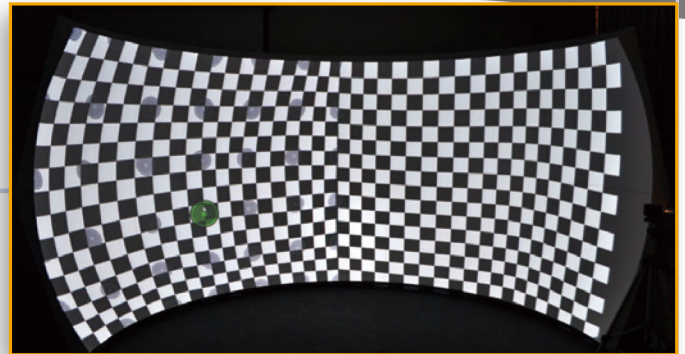
This innovative Dome System also supports unique modular add-ons such as a Teacup Module to enable projection in an arc beneath a platform for maximum immersion, or a Straight Section Module for requirements such as placement of full-sized vehicles inside an oblong Projection Dome.



7 metre Dome Screen used for trade show



Sol7 Spherical Screen
Correction Software
Calibration



Configuration & Installation

VSS Modular Domes are available in several **standard configurations**, or we can **custom design and build to provided specifications**.

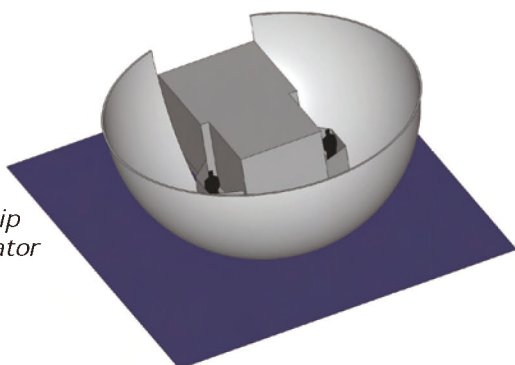
Standard Dome Screen panels are shipped flat in a compact, custom crate and can be fully installed within a day. VSS and/or its distributors offer installation services, or self-installation is possible with full remote support.

Elimination of any visible seams between panels can be achieved with the following methods, **depending on the visual fidelity required:**

- Do nothing extra. Even untreated, the screen is suitable for many uses.
- Use the included special tape to cover seams, **then finish with suitable paint.**
- Fill seams with a compound supplied by VSS, **then finish by sanding and painting.** *Only recommended for semi-permanent installations.*

In basic, room-sized setups, the Dome supports Commercial-Off-The-Shelf short throw projectors. **Two to three projectors can render a 180° field of view** from a single PC.

VSS Dome
design for ship
bridge simulator



Of course, the VSS Modular Dome System is also suitable for more complex projection scenarios.

We provide and recommend Immersaview's excellent Sol7 Screen Correction software with **standard Dome Screen configurations**. Sol7 provides Geometric Warping and Edge Blending capabilities in an easy to use program.

Advantages of VSS Domes

Immersive environment ideal for exacting simulation and ultimate home entertainment

Flexible and upgradable; simply add or subtract panels to change the dome size

Durable, robust, and in many configurations the dome screens are self-supporting

In rare cases of damage, simply replace any affected panels (VSS can supply spare panels)

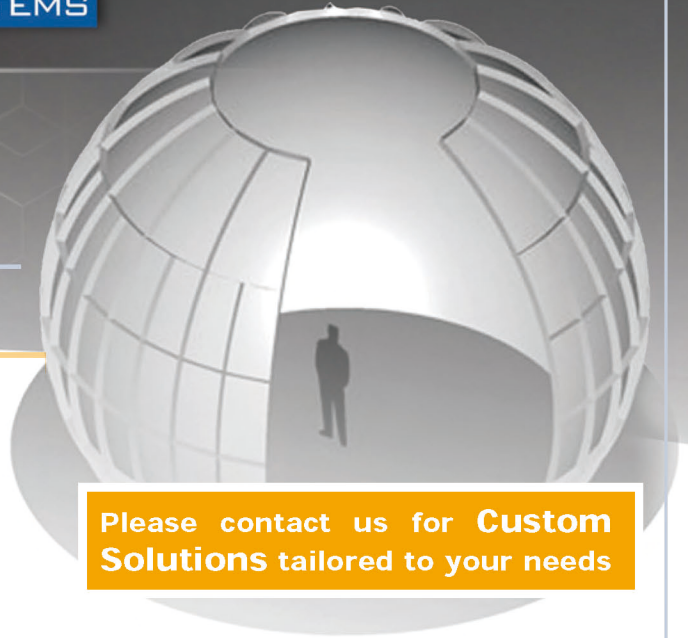
Modular domes can be disassembled and moved for reassembly in other locations

**VSS Dome Screen used in VSS MK1
Virtual Sniper/Forward Observer Trainer**





VSS can create Custom Domes of any size



Please contact us for Custom Solutions tailored to your needs

Standard Dome Modules

Room-Height Screens

- Spherical 90° to 360° field of view
 - 4m diameter / 2.2m height
 - 7m diameter / 2.2m or 3.3m height
- Curved Screen 1.4m or 2.8m tall

Tea Cup Module

Supports projection in an arc beneath a platform or simulator. For example, it can allow a helicopter pilot to see below the craft, or military forward observers to simulate the edge of a valley or building. Also suited to amusement or educational installations.



Door Module

Entry/exit to and from a 360° Dome environment.

Straight Section Module

Extended straight sections combine with regular Dome panels to create an oblong. Developed to encapsulate a complete vehicle or simulator mockup, it would also suit educational and commercial displays. *Used for Virtual Convoy and Boat Gunnery trainers.*

Military Applications

Mission Rehearsal

Simulator Displays

Battlefield Planning



Civilian Applications

Immersive Home Theatre

Ultimate Games Room

Events & Corporate Displays

