



PRODUCT SPECIFICATION

VISTAWALL SOLUTION™ (VWS™)



ACTUAL PHOTO - 2X6, 100" VWS™

General:

The rear projection videowall shall be a 50"-200" VISTAWALL SOLUTION™ (VWS™) as manufactured by Custom Display Solutions, Inc. The VWS™ shall include high-resolution rear projection screens and as required, optical-quality, "first-surface" mirrors, having a reflectivity quotient of 94% or better. The VWS™ shall be outfit with RazorEdge™ or LaserEdge™ screen framing to allow for minimum image separation ($\geq 0.2\text{mm}$, depending upon image size & configuration) in a multi-unit array, as for simulation or command & control applications. The VWS™ shall be designed to optimize the light path trajectory, providing maximum image brightness to primary audience locations.

Design & Documentation:

The VWS™ shall be designed completely in CAD and sign-off drawings will be provided to the customer prior to fabrication. A serial number shall be applied to the specified design and the CAD files shall be archived for future reference. Assembly instructions shall be detailed and easy to read. Future projector model/lens "upgradeability" shall be considered and employed as discussed with the client.

Construction:

The VWS™ shall be a prefabricated, "common frame design," freestanding structure. VWS™ construction may be "open architecture" or have cladded panels, supported by an aluminum framework. The aluminum framework shall consist of precision extruded aluminum profile, held fast by "fixbloc & t-bolt" joinery. There shall be no welded components in the VWS™ design and assembly of the VWS™ shall be performed with simple tools.

Ventilation:

For enclosed designs, the top of each VWS™ bay shall be outfit with black mesh covered exhaust ports and may be outfit with optional exhaust fans (as required), to allow for the efficient evacuation of projector heat. The bottom of the unit shall be mostly open to allow for maximum air circulation and to enable cabling to be run directly into the floor. As required, additional intake ports and fans will be strategically added to optimize ventilation.

Projector & Cable Access:

The VWS™ may be outfit with optional cable races. For enclosed versions, access to the specified projectors shall be through one or more removable access panels. As an option, the projector-mounting bracket(s) may be supported by a heavy-duty, projector glide mechanism. This mechanism shall allow the projector to be pulled clear of the VWS™ by a single technician for service or removal. For larger or multi-module arrays, a mechanized winch and hoist assemblies may be specified to enable a single technician to install and remove projector chassis.

Image Registration:

Depending upon the specified projector model, the VWS™ may be equipped with fine-tuning adjustable projector and mirror mounting brackets for precise image alignment. Available adjustments shall allow for +/- 2.0" of travel for left/right, forward/back, elevation, roll and pitch motion. Construction of the fine-tuning adjustable bracket shall be of precision aluminum extrusion with Dalrin™ sliders and acme threaded rod for smooth travel.

Factory Testing:

Prior to shipment, the VWS™ shall be tested with the specified projector. Satisfactory performance shall be documented and approved by the manufacturer and the customer at their choice. A written and photographic record of this factory test shall be kept by the manufacturer and made available to the customer upon request.

Warranty:

The VWS™ Factory Warranty shall cover all parts and labor for two full years from invoice date against defects in manufacturing. The manufacturer reserves the right to repair or replace the defective item to satisfy the customer.

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