PRODUCT SPECIFICATION

REAR SCREEN MODULE™ (RSM™)

General:
The rear projection module shall be a 50"-200" REAR SCREEN MODULE™ (RSM™) as manufactured by Custom Display Solutions, Inc. The RSM™ shall be a freestanding mechanical structure, including a high-resolution rear projection screen, an optical-quality, "first-surface" mirror and projector mounting bracket. The RSM™ shall be outfit with appropriate screen framing to compliment room décor. The RSM™ shall be designed to optimize specified projector’s light path trajectory, providing maximum image brightness to primary audience locations.

Design & Documentation:
The RSM™ 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 RSM™ shall be a prefabricated, freestanding structure. RSM™ construction is typically “open architecture,” but may be clad with a variety of optional paneling as provided by the manufacturer or others. The aluminum framework shall consist of precision extruded aluminum profile lengths, held fast by “fixbloc & t-bolt” joinery. There shall be no welded components in the RSM™ design and assembly of the RSM™ shall be performed with simple tools.

Ventilation:
For enclosed designs, the top of the RSM™ shall be outfit with black mesh covered intake and exhaust ports. As required, optional exhaust (and/or) intake fans will be added to allow for the efficient evacuation of projector heat.

Projector & Cable Access:
The RSM™ 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 RSM™ 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 RSM™ may be equipped with an optional fine-tuning adjustable projector mount and shall have adjustable mirror mounting brackets for precise image alignment. Projector mount adjustments shall allow for +/- 2.0" of travel for left/right, forward/back, elevation, roll and pitch motion. Construction of the fine-tuning projector mount shall be of precision aluminum extrusion with Dalrin™ sliders and acme threaded rod for smooth travel.

Factory Testing:
Prior to shipment, the RSM™ 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 RSM™ Factory Warranty shall cover all parts and labor for one full year from invoice date against defects in manufacturing. The manufacturer reserves the right to repair or replace the defective item to satisfy the customer.

CUSTOM DISPLAY SOLUTIONS, INC.
2926 West Pendleton Avenue, Santa Ana, CA 92704 Phone: (714) 540-5220 Fax: (714) 540-5221
www.cds4av.com