



PRODUCT SPECIFICATION

VistaPower 2.0™ (VP2™) CAST FRESNEL/DIFFUSION REAR SCREEN



3X1, 72" Diagonal VP2™ ARRAY

Overview:

The VistaPower 2.0™ (VP2™) is a high-resolution, neutral grey contrast, rear projection screen, specifically designed to optimize the performance of single lens-type projection systems. The VP2™ renders projected images with extremely accurate color and detail, with very good contrast ratios.

Being a cast (not coated) Fresnel/Diffusion design, the VP2™ also features incredible brightness uniformity and image resolution, without the "double imaging" or "ghosting" artifacts of conventional optical screens. The VP2™ also has a wide, 170° viewing cone (not a "wedge"), so your brilliant display may be easily resolved from virtually any vantage point in the room.

Available in sizes up to 120" diagonal (NTSC), the VistaPower 2.0™ supports both long and short focal length projector lensing, but is especially well suited to displaying images from today's shorter focal length lenses. A proprietary, anti-glare finish option all but eliminates glare from competing ambient light sources and the neutral grey contrast formulation provides for vibrant images even in relatively well-lit environments (see actual active photo above).

VistaPower 2.0™ represents a significant improvement over other optical screen technologies and it's relatively wide vertical viewing angles make it perfect for screens mounted high overhead or large scale, 2X videowall applications. If your application calls for powerful images with good vertical off-axis viewing, be sure specify Custom Display Solutions' VistaPower 2.0™.

Technical Specifications

General:

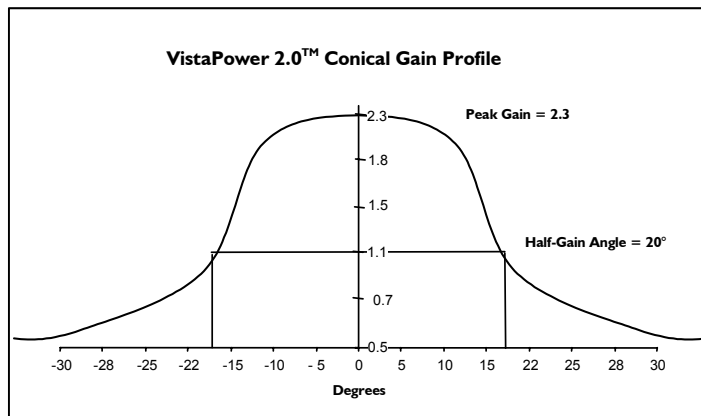
The rear projection screen shall be a VistaPower 2.0™ as provided by Custom Display Solutions, Inc. The screen shall have an on-axis gain value of 2.3 +/- .30 and a conical half-gain performance of 20°. The screen shall have an acceptable viewing cone of 180° and a contrast ratio of approximately 120:1 at 500 lux (46fL). The screen shall exhibit no "double imaging" or image "ghosting," particularly under close-quarters scrutiny, while viewing white lettering on a black background.

Construction:

The screen shall be of single-piece, cast (**NOT COATED**), PMMA acrylic construction. The screen shall feature a 0.5mm pitch Fresnel Profile on the projection side and an A/R matte surface on the audience side. The screen shall be of single-piece design. Image sizes shall range from 50" to 120" diagonal (NTSC) and available in custom cut sizes.

Warranty:

The Factory Warranty shall cover all parts and labor for one full year from invoice date against defects in manufacturing. In this unlikely event, the manufacturer reserves the right to either repair or replace the screen in achieving the customer's satisfaction.



SCREEN PROPERTIES	VP2™ VALUES
On-Axis Gain	2.3 (+/- 0.3)
Conical Half-Gain Angle:	20°
Contrast Ratio @ 500 lux (46fL)	~ 120:1
Transmission	~ 50%
Reflectance	3.00%
Back Reflectance	~5%
Fresnel Pitch	0.5mm
Fresnel Focal Lengths (50"-120")	1150-2700mm
Finish	Matte Only
Construction	Cast PMMA
Nominal Thickness (50"-120")	5.0-7.5mm