



PRODUCT SPECIFICATION

VistaPower 3.0™ (VP3™) CAST FRESNEL/DIFFUSION REAR SCREEN



Static 100" Diagonal VP3™



Active 100" Diagonal VP3™

Overview:

The VistaPower 3.0™ (VP3™) is a high-resolution, super-high contrast, rear projection screen, specifically designed to optimize the performance of single lens-type projection systems. The VP3™ renders projected images with amazing vibrance, color and contrast, and even in high ambient light environments.

Being a cast (not coated) Fresnel/Diffusion design, the VP3™ also features incredible brightness uniformity and image resolution, without the "double imaging" or "ghosting" artifacts of conventional optical screens. The VP3™ also has a wide, 160° 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 180" diagonal (NTSC), the VistaPower 3.0™ supports both long and short focal length projector lensing, but is particularly 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 (see actual static photo above) and the high contrast formulation ensures solid, high-impact images even in well-lit environments (see actual active photo above).

VistaPower 3.0™ represents one of the best rear screen technologies available today. If you're interested in maximizing your projection investment and making your rear projection system the very best that it can be, be sure to specify Custom Display Solutions' VistaPower 3.0™.

Technical Specifications

General:

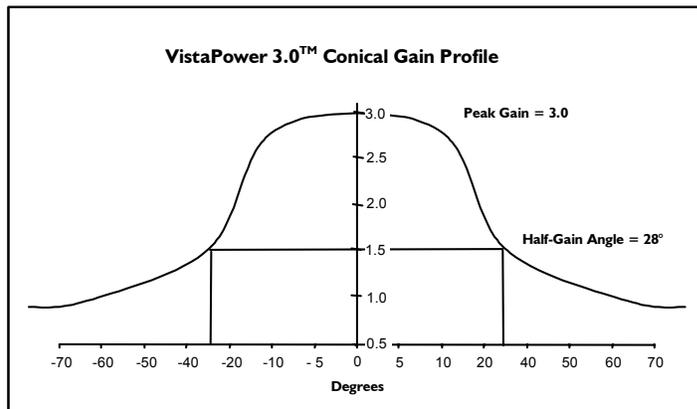
The rear projection screen shall be a VistaPower 3.0™ as provided by Custom Display Solutions, Inc. The screen shall have an on-axis gain value of 3.0 +/- .50 and a conical half-gain performance of 28°. The screen shall have an acceptable viewing cone of 180° and a contrast ratio of approximately 150:1 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 or glossy diffusion surface on the audience side. The screen shall be of single-piece design. Image sizes shall range from 50" to 180" 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	VP3™ VALUES
On-Axis Gain	3.0 (+/- 0.5)
Conical Half-Gain Angle:	28°
Contrast Ratio @ 500 lux (46fL)	~ 150:1
Transmission	~ 50%
Reflectance	3.00%
Back Reflectance	~5%
Fresnel Pitch	0.5mm
Fresnel Focal Lengths (50"-180")	750-3800mm
Finish	Matte or Gloss
Construction	Cast PMMA
Nominal Thickness (50"-180")	6.0-9.0mm