



PRODUCT SPECIFICATION

VistaPower 20™ (VP20™)

CAST DUAL ELEMENT FRESNEL/LENTICULAR REAR SCREEN



Active 90° Diagonal VP20™ Screens

Overview:

The VistaPower 20™ (VP20™) from Custom Display Solutions, Inc. is the latest in state-of-the-art rear screen technology. The VP20™ is an advanced, double-element screen, especially developed for modern control room applications. The VP20™ Screen offers improved horizontal and vertical viewing angles and superior brightness uniformity – even when used in conjunction with ultra short throw projector lensing.

With a peak gain of 2.0, the VP20™ has been optimized for modern control room engines, which offer high brightness uniformity. The improved black levels and contrast of the VP20™ result in crisp projected images with rich color and contrast, even in relatively high ambient light environments.

The VP20™ screen is available in the range of 84"-120", which are the most frequently used sizes for most new control room applications. As projectors become more and more powerful and more resolute, control room displays are tending to consist of larger screens with fewer projectors and seams with lower maintenance costs.

The VistaPower 20™ is the very best in rear screen technology available today. Compatible LCD, DLP, LCOS, Light Valve and D-ILA technologies, the VP20™ is particularly well suited to displaying images from today's shorter focal length lenses allowing for compact projection solutions. For the best performance in your control room displays, be sure to specify the VistaPower 20™ for your application.

CUSTOM DISPLAY SOLUTIONS, INC.

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Technical Specifications

General:

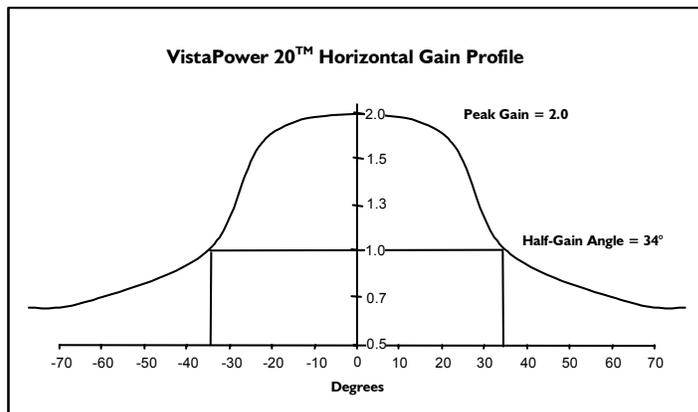
The rear projection screen shall be a VistaPower 20™ as provided by Custom Display Solutions, Inc. The screen shall have an on-axis gain value of 2.0 +/- 0.3 a horizontal half-gain performance of 34° and a vertical half gain performance of 12°. The screen shall have an acceptable viewing angle of 180° and a contrast ratio of approximately 120:1 at 500 lux (46fL).

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 matted Lenticular Profile of .25mm on the audience side. The screen shall be of single-piece design. Image sizes shall range from 84" to 120" diagonal (NTSC) and available in custom cut sizes.

Warranty:

The Factory Warranty shall cover all parts and labor for two full years 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	VP20™ VALUES
On-Axis Gain	2.0 (+/- 0.3)
Horizontal Half-Gain Angle:	34°
Vertical Half-Gain Angle:	12°
Contrast Ratio @ 500 lux (46fL)	~ 120:1
Reflectance	3.00%
Back Reflectance	~5%
Fresnel Pitch	0.5mm
Fresnel Focal Lengths (84"-120")	1450-2300mm
Finish	Matte or Gloss
Construction	Cast PMMA
Nominal Thickness (84"-120")	7.5-11.0mm