

dnp Alpha Screen™



The dnp Alpha Screen is a multi-purpose screen for all rear projection applications, which require a combination of wide viewing angles – both horizontally and vertically – enhanced contrast, brightness uniformity and high resolution.

This makes the Alpha Screen ideal for modern conference rooms and control room environments. The excellent vertical viewing angles also make the Alpha Screen well suited for multi-screen installations.

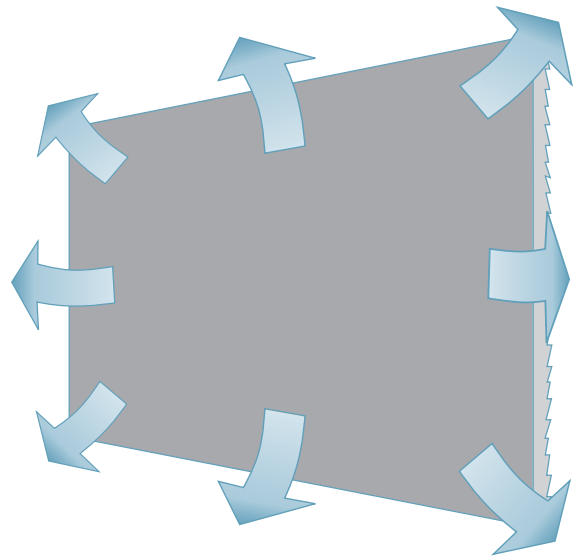
The Alpha Screen is an advanced optical micro filter screen. Due to the special construction of the Alpha Screen it offers infinite resolution. Furthermore, the screen has an anti-glare front surface to minimize reflections from windows and room lighting.

The Alpha Screen is especially developed for the new generation of powerful single-lens projectors. Due to

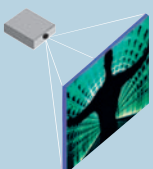
their brightness, these projectors require a screen with the ability to distribute the brightness evenly – and to enhance the perceived contrast of the image. The Alpha Screen fulfils both needs.

The Alpha Screen offers perfectly symmetrical viewing angles – both vertically and horizontally.

- = Wide vertical and horizontal viewing angles
- = High contrast
- = Infinite resolution
- = Multiple options for focal length
- = Easy-clean surface
- = Compatible with LCD, DLP, LCOS, Light Valve and D-ILA projectors



The high precision Fresnel lens on the projector side redirects the projected light and sends it forwards at right-angles to the screen. The built-in optical micro filter, comprising high-refractive particles, distributes the light forward and generates a perfectly symmetrical viewing cone.



Rear projection

Rear projection means that the projector is placed behind the screen, shining straight forward towards the audience. The optical screen controls the light path and distributes bright, sharp images into a predefined viewing zone. Furthermore, the presenter and the audience can stand in front of the image without casting shadows. And with the projector equipment hidden behind the screen, the viewing area remains quiet, clean and tidy.

Screen specifications

Alpha Screen	Type no.	84" Alp 1400 3 084 140 25	84" Alp 1900 3 084 190 25	84" Alp 2300 3 084 230 25	100" Alp 1850 3 100 185 25	100" Alp 2300 3 100 230 25	100" Alp 2700 3 100 270 25	120" Alp 1850 3 120 185 25
Dimensions								
Width	mm	1742 +/- 1.0	1742 +/- 1.0	1742 +/- 1.0	2066 +/- 1.5	2066 +/- 1.5	2066 +/- 1.5	2472 +/- 1.5
Height	mm	1317 +/- 1.0	1317 +/- 1.0	1317 +/- 1.0	1560 +/- 1.5	1560 +/- 1.5	1560 +/- 1.5	1864 +/- 1.5
Rec. lens throw ratio range		0.9 - 1.1:1	0.9 - 1.6:1	1.1 - 1.9:1	0.9 - 1.3:1	0.9 - 1.6:1	1.1 - 1.9:1	0.9 - 1.1:1
Rec. projection distance range*	mm	1540 - 1880	1540 - 2730	1880 - 3240	1830 - 2640	1830 - 3250	2240 - 3860	2190 - 2680
Thickness	mm	5.5 +/- 1.0	5.5 +/- 1.0	5.5 +/- 1.0	5.5 +/- 1.0	5.5 +/- 1.0	5.5 +/- 1.0	5.5 +/- 1.0
Weight	kg	15 +/- 10%	15 +/- 10%	15 +/- 10%	21.7 +/- 10%	21.7 +/- 10%	21.7 +/- 10%	30.9 +/- 10%
Image area								
Width	mm	1707	1707	1707	2032	2032	2032	2438
Height	mm	1280	1280	1280	1524	1524	1524	1828
Optical specifications								
Screen focal	mm	1400	1900	2300	1850	2300	2700	1850
Alpha Screen	Type no.	120" Alp 2300 3 120 230 25	120" Alp 2700 3 120 270 25					
Dimensions								
Width	mm	2472 +/- 1.5	2472 +/- 1.5					
Height	mm	1864 +/- 1.5	1864 +/- 1.5					
Rec. lens throw ratio range		0.9 - 1.3:1	0.9 - 1.6:1					
Rec. projection distance range*	mm	2190 - 3170	2190 - 3900					
Thickness	mm	5.5 +/- 1.0	5.5 +/- 1.0					
Weight	kg	30.9 +/- 10%	30.9 +/- 10%					
Image area								
Width	mm	2438	2438					
Height	mm	1828	1828					
Optical specifications								
Screen focal	mm	2300	2700					

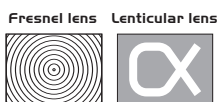
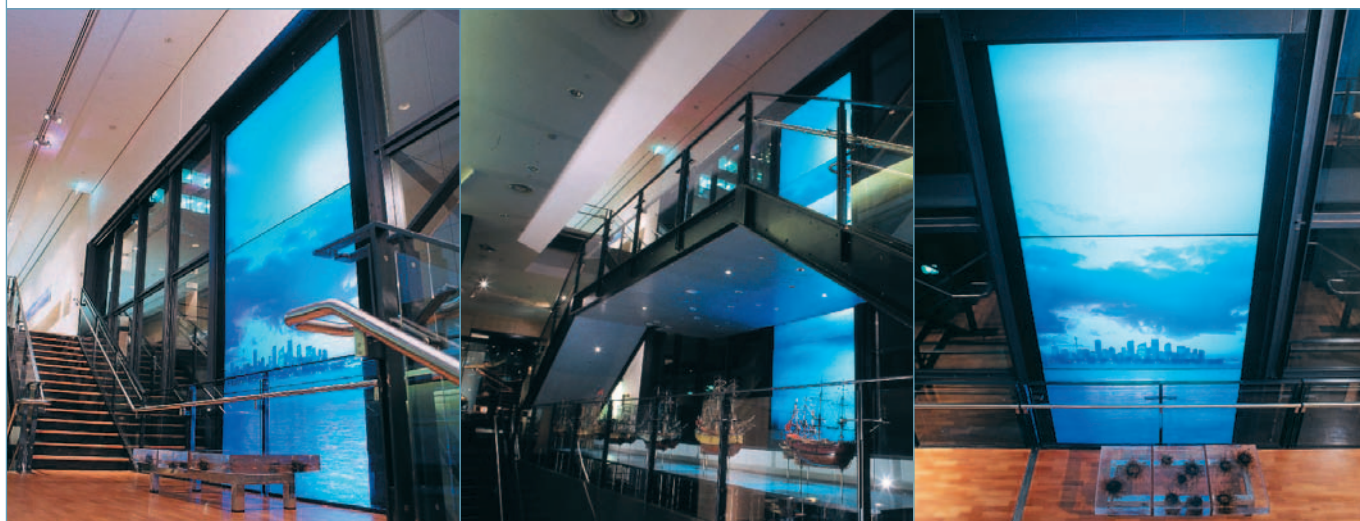
* General tolerance = -20/+40%, related to the actual screen focal length.

General specifications

Optical specifications	Peak Gain	Front surface		
Alpha Screen	2.3 +/- 0.3	Smooth, Non-Glare		

Subject to change without notice. Please check specification at time of ordering. Detailed gain curves can be viewed and downloaded at www.dnp.dk

July 2006



Optical screen technology

The dnp Alpha Screen enhances the image for optimum viewing by combining the focusing abilities of a Fresnel lens with the distributive properties of a high-refractive micro filter. The result is sharp and crisp images, superb contrast – and high centre-to-corner brightness uniformity, which becomes particularly evident in multi-screen installations.



www.dnp.dk

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Screens of the art