

dnp Alpha Screen™



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.

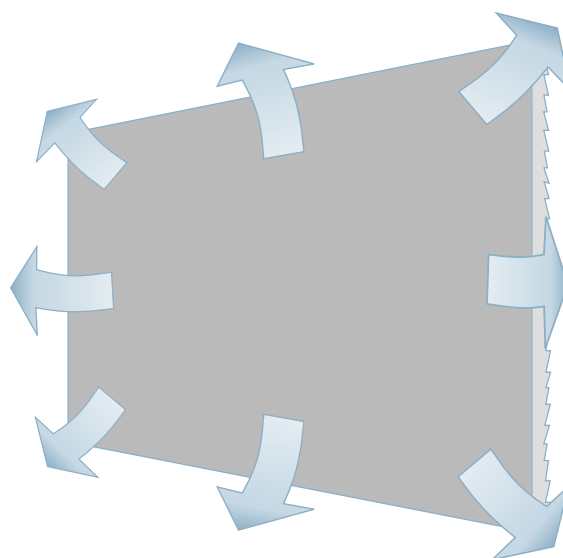
- = Wide vertical and horizontal viewing angles
- = High contrast
- = Infinite resolution
- = Multiple options for focal length
- = Easy-clean surface
- = Compatible with LCD, DLP, LCOS, Light Valve and D-ILA projectors

The 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.

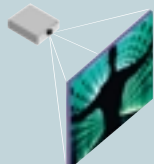
This makes the Alpha Screen ideal for modern conference rooms and control room environments. The excellent vertical viewing angles also make the Alpha Screen well suited for multi-screen installations.

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



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.	67" Alp 1150 3 067 115 25	67" Alp 1400 3 067 140 25	67" Alp 1600 3 067 160 25	72" Alp 1150 3 072 115 25	72" Alp 1400 3 072 140 25	72" Alp 1900 3 072 190 25	84" Alp 1400 3 084 140 25	84" Alp 1900 3 084 190 25
Dimensions									
Width	mm	1397 +/- 1.0	1397 +/- 1.0	1397 +/- 1.0	1499 +/- 1.0	1499 +/- 1.0	1499 +/- 1.0	1742 +/- 1.0	1742 +/- 1.0
Height	mm	1058 +/- 1.0	1058 +/- 1.0	1058 +/- 1.0	1134 +/- 1.0	1134 +/- 1.0	1134 +/- 1.0	1317 +/- 1.0	1317 +/- 1.0
Rec. lens throw ratio range		0.9 - 1.2:1	0.9 - 1.4:1	0.9 - 1.6:1	0.9 - 1.1:1	0.9 - 1.3:1	1.0 - 1.8:1	0.9 - 1.1:1	0.9 - 1.6:1
Rec. projection distance range*	mm	1230 - 1630	1230 - 1910	1230 - 2180	1320 - 1610	1320 - 1900	1460 - 2630	1540 - 1880	1540 - 2730
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	5.5 +/- 1.0
Weight	kg	9.8 +/- 10%	9.8 +/- 10%	9.8 +/- 10%	11 +/- 10%	11 +/- 10%	11 +/- 10%	15 +/- 10%	15 +/- 10%
Image area									
Width	mm	1361	1361	1361	1463	1463	1463	1707	1707
Height	mm	1021	1021	1021	1097	1097	1097	1280	1280
Optical specifications									
Screen focal	mm	1150	1400	1600	1150	1400	1900	1400	1900

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

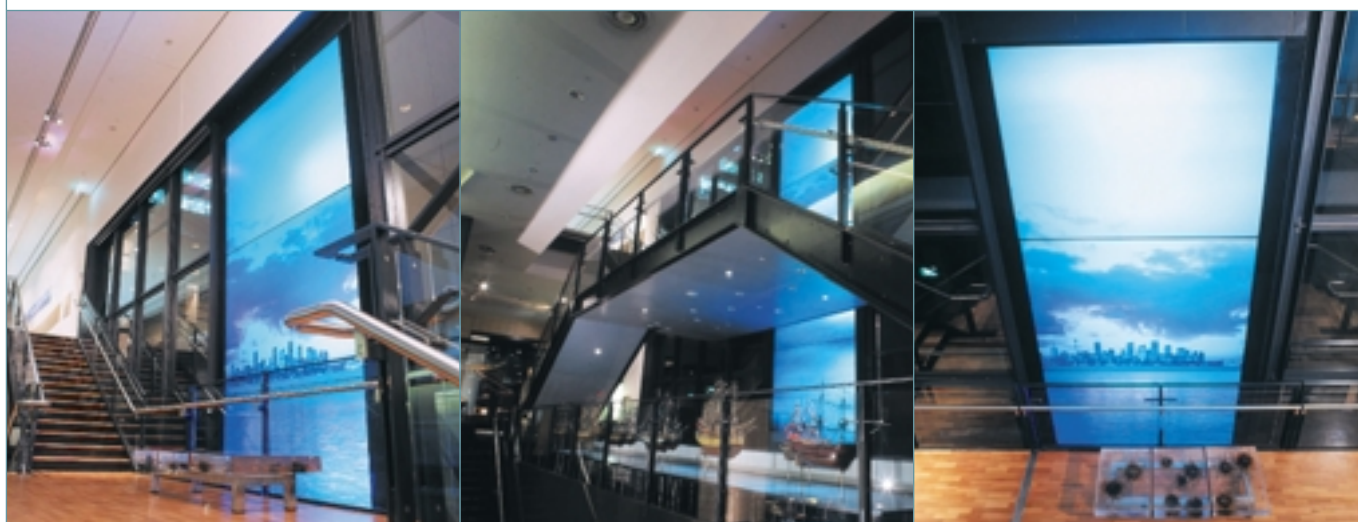
* General tolerance = -20/+40%, related to the actual screen focal length.

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

February 2004



Fresnel lens Lenticular lens



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