dnp New Wide Angle Screen™

tint which enhances the contrast and colour depth of the image. The screen produces an optimum viewing area which is very wide horizontally and relatively narrow vertically.

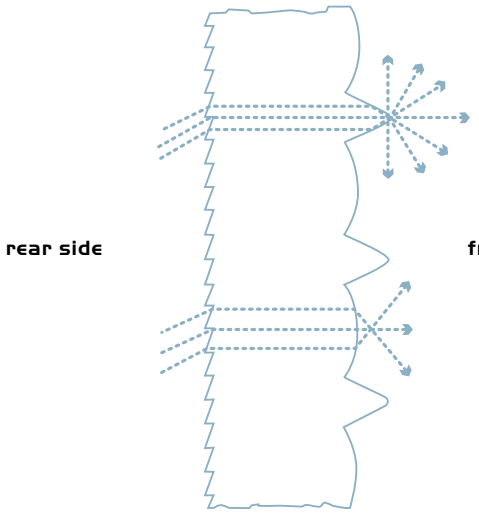
= Improved Wide Angle lens technology
= Enhanced resolution
= 180° horizontal viewing angle
= High image brightness
= Multiple options for focal length
= Compatible with LCD, DLP, Light Valve, LCOS and D-ILA projectors

The dnp New Wide Angle Screen (NWA) is a unique range of screens within the dnp Wide Angle Screen family – the world's best selling optical rearpro screens for professional installations. The NWA Screen can be used in practically every rearpro application you can think of – plus a few others!

The NWA Screen offers true 180° horizontal viewing angles, high contrast and ultra-fine resolution and has a special dark tint, which enhances the contrast.

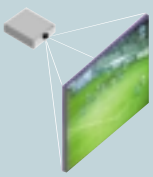
The NWA Screen is especially designed for single lens projectors (LCD, DLP etc.), which are very bright but many of which have relatively poor contrast. The NWA Screen has been optimized for these projectors to give excellent black levels, good contrast and colour saturation.

The NWA Screen is an optical single element system with 2 active lens surfaces. The screen features a special dark



screen profile (horizontal section)

The high precision Fresnel lens on the projector side redirects the projected light and sends it forwards at right-angles to the screen. The diffusion material in the acrylic screen controls the vertical light distribution. The fine pitch lenticular lenses on the front side of the screen distribute the image through a 180° horizontal viewing area.



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

New Wide Angle Screen	Type no.	67" NWA 1600 HC 3 067 1 160 10	67" NWA 1900 HC 3 067 1 190 10	72" NWA 1600 HC 3 072 1 160 10	72" NWA 1900 HC 3 072 1 190 10	72" NWA 2300 HC 3 072 1 230 10	84" NWA 1900 HC 3 084 1 190 10	84" NWA 2300 HC 3 084 1 230 10	100" NWA 1850 HC 3 100 1 190 10
Dimensions									
Width	mm	1397 +/- 1	1397 +/- 1	1499 +/- 1	1499 +/- 1	1499 +/- 1	1742 +/- 1	1742 +/- 1	2066 +/- 1.5
Height	mm	1058 +/- 1	1058 +/- 1	1134 +/- 1	1134 +/- 1	1134 +/- 1	1317 +/- 1	1317 +/- 1	1560 +/- 1.5
Rec. lens throw ratio range		0.9 - 1.6:1	1.1 - 2.0:1	0.9 - 1.5:1	1.0 - 1.8:1	1.2 - 2.2:1	0.9 - 1.6:1	1.1 - 1.9:1	0.9 - 1.3:1
Rec. projection distance range*	mm	1230 - 2180	1500 - 2720	1320 - 2190	1460 - 2630	1760 - 3220	1540 - 2730	1880 - 3240	1830 - 2640
Thickness	mm	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1
Weight	kg	9.8 +/- 10%	9.8 +/- 10%	11 +/- 10%	11 +/- 10%	11 +/- 10%	15 +/- 10%	15 +/- 10%	21.7 +/- 10%
Image area									
Width	mm	1361	1361	1463	1463	1463	1707	1707	2032
Height	mm	1021	1021	1097	1097	1097	1280	1280	1524
Optical specifications									
Screen focal	mm	1600	1900	1600	1900	2300	1900	2300	1850

New Wide Angle Screen	Type no.	100" NWA 2300 HC 3 100 1 230 10	100" NWA 2700 HC 3 100 1 270 10	120" NWA 1850 HC 3 120 1 190 10	120" NWA 2300 HC 3 120 1 230 10	120" NWA 2700 HC 3 120 1 270 10	120" NWA 3200 HC 3 120 1 320 10	130" NWA 3200 HC 3 130 1 320 10	
Dimensions									
Width	mm	2066 +/- 1.5	2066 +/- 1.5	2472 +/- 1.5	2472 +/- 1.5	2472 +/- 1.5	2472 +/- 1.5	2675 +/- 1.5	
Height	mm	1560 +/- 1.5	1560 +/- 1.5	1864 +/- 1.5	1864 +/- 1.5	1864 +/- 1.5	1864 +/- 1.5	2016 +/- 1.5	
Rec. lens throw ratio range		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	1.1 - 1.9:1	1.0 - 1.7:1	
Rec. projection distance range*	mm	1830 - 3250	2240 - 3860	2190 - 2680	2190 - 3170	2190 - 3900	2680 - 4630	2640 - 4490	
Thickness	mm	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	
Weight	kg	21.7 +/- 10%	21.7 +/- 10%	30.9 +/- 10%	30.9 +/- 10%	30.9 +/- 10%	30.9 +/- 10%	36.1 +/- 10%	
Image area									
Width	mm	2032	2032	2438	2438	2438	2438	2642	
Height	mm	1524	1524	1828	1828	1828	1828	1981	
Optical specifications									
Screen focal	mm	2300	2700	1850	2300	2700	3200	3200	

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

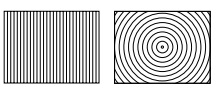
General specifications

Optical specifications	Peak Gain	Pitch		
New Wide Angle Screen	3.5 +/- 0.5	0.25		

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

Lenticular lens Fresnel lens



Optical screen technology

dnp optical screens enhance the image for optimum viewing by combining the focusing ability of a Fresnel lens with the distributive properties of a lenticular lens. The result is brilliantly sharp images, superb contrast and up to 4 times brighter images than conventional front or rear projection screens.

www.dnp.dk

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Screens of the art