

dnp Sigma Screen™



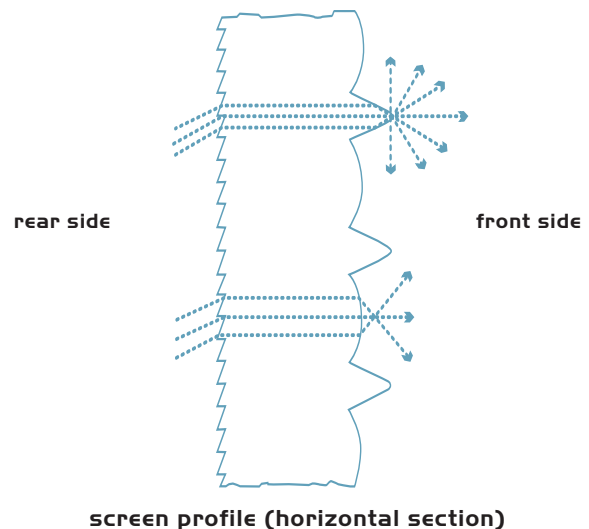
The dnp Sigma Screen is a revolutionary new high-contrast screen in the dnp Wide Angle series, which is optimized for the bright, modern office environment. It is designed to deliver extremely high black levels, which dramatically enhances the perceived image contrast.

The hallmark of the Sigma Screen is its extremely high contrast. The screen features a special dark tint that enhances the perceived contrast of the projected image – and a matt, non-glare surface that effectively reduce reflections from ambient lighting.

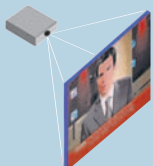
The Sigma Screen series is available in sizes from 67" to 120" diagonal in 4:3 as the standard format. The screens can also be supplied in 16:9, 5:4 or individual formats on request. All screen sizes in the Sigma Screen series are available with different focal lengths. This allows design of very compact installations, or installa-

tions optimised for an ideal viewing zone. As standard, the screen is supplied without a frame. The screen can also be supplied pre-mounted in a special dnp aluminium frame. For more details see the dnp Image Builder™ rigs programme.

- = Wide horizontal viewing angles
- = Improved vertical viewing angles
- = High contrast
- = Non Glare surface
- = Enhanced sharpness
- = Multiple options for focal length
- = 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 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

Sigma Screen		Type no.	84" Sig 1400 3 084 140 35	84" Sig 1900 3 084 190 35	84" Sig 2300 3 084 230 35	100" Sig 1850 3 100 185 35	100" Sig 2300 3 100 230 35	100" Sig 2700 3 100 270 35	120" Sig 1850 3 120 185 35
Dimensions									
Width	mm		1742 +/- 1.0	1742 +/- 1.0	1742 +/- 1.0	2066 +/- 1.5	2066 +/- 1.5	2066 +/- 1.5	2472 +/- 1.5
	inch		68.58 +/- 0.04	68.58 +/- 0.04	68.58 +/- 0.04	81.34 +/- 0.06	81.34 +/- 0.06	81.34 +/- 0.06	97.32 +/- 0.06
Height	mm		1317 +/- 1.0	1317 +/- 1.0	1317 +/- 1.0	1560 +/- 1.5	1560 +/- 1.5	1560 +/- 1.5	1864 +/- 1.5
	inch		51.85 +/- 0.04	51.85 +/- 0.04	51.85 +/- 0.04	61.42 +/- 0.06	61.42 +/- 0.06	61.42 +/- 0.06	73.39 +/- 0.06
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
	inch		60.63 - 74.02	60.63 - 107.48	74.02 - 127.56	72.05 - 103.94	72.05 - 127.95	88.19 - 151.97	86.22 - 105.51
Thickness	mm		4 +/- 0.7	4 +/- 0.7	4 +/- 0.7	6 +/- 1.0	6 +/- 1.0	6 +/- 1.0	6 +/- 1.0
	inch		0.16 +/- 0.03	0.16 +/- 0.03	0.16 +/- 0.03	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04
Weight	kg		11 +/- 10%	11 +/- 10%	11 +/- 10%	22 +/- 10%	22 +/- 10%	22 +/- 10%	31 +/- 10%
	lbs		24.03 +/- 10%	24.03 +/- 10%	24.03 +/- 10%	47.84 +/- 10%	47.84 +/- 10%	47.84 +/- 10%	68.12 +/- 10%
Image area									
Width	mm		1707	1707	1707	2032	2032	2032	2438
	inch		67.20	67.20	67.20	80.00	80.00	80.00	95.98
Height	mm		1280	1280	1280	1524	1524	1524	1828
	inch		50.39	50.39	50.39	60.00	60.00	60.00	71.97
Optical specifications									
Screen focal	mm		1400	1900	2300	1850	2300	2700	1850
	inch		55.12	74.80	90.55	72.83	90.55	106.30	72.83
Sigma Screen									
		Type no.	120" Sig 2300 3 120 230 35	120" Sig 2700 3 120 270 35					
Dimensions									
Width	mm		2472 +/- 1.5	2472 +/- 1.5					
	inch		97.32 +/- 0.06	97.32 +/- 0.06					
Height	mm		1864 +/- 1.5	1864 +/- 1.5					
	inch		73.39 +/- 0.06	73.39 +/- 0.06					
Rec. lens throw ratio range			0.9 - 1.3:1	0.9 - 1.6:1					
Rec. projection distance range*	mm		2190 - 3170	2190 - 3900					
	inch		86.22 - 124.80	86.22 - 153.54					
Thickness	mm		6 +/- 1.0	6 +/- 1.0					
	inch		0.22 +/- 0.04	0.22 +/- 0.04					
Weight	kg		31 +/- 10%	31 +/- 10%					
	lbs		68.12 +/- 10%	68.12 +/- 10%					
Image area									
Width	mm		2438	2438					
	inch		95.98	95.98					
Height	mm		1828	1828					
	inch		71.97	71.97					
Optical specifications									
Screen focal	mm		2300	2700					
	inch		90.55	106.30					

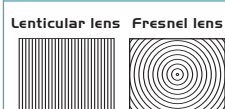
* General tolerance = -20/+40%, related to the actual screen focal length.

General specifications

Optical specifications	Peak Gain	Lenticular pitch	Front surface
Sigma Screen	1.5 +/- 0.3	0.25 mm	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

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

dnp denmark as · Skruegangen 2 · DK - 2690 Karlslunde · Denmark · Tel: +45 46 16 51 00



Screens of the art