

dnp Optical Front Screen – Supernova™



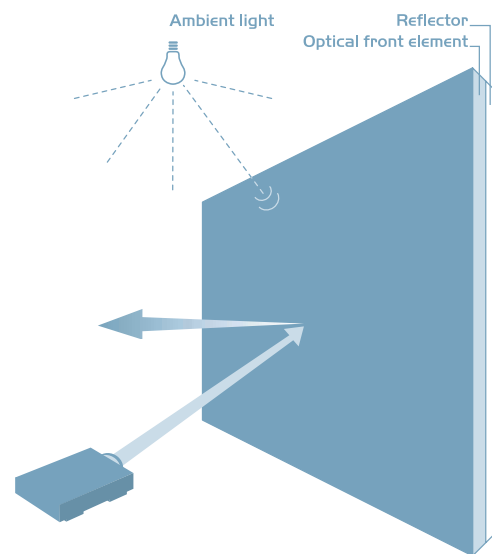
ergonomically designed environment. The screen features an ultra-fine pitch of 0.065 mm that provides a vertical resolution of 20,000 lines with a 100" version of the screen and infinite horizontal resolution. The dnp Supernova Screen is available in sizes up to 100" in 4:3 format and up to 120" in 16:9.

- = optical front projection
- = projection in brightly-lit rooms
- = 10 times higher contrast than standard front screens
- = 2 times brighter images
- = easy installation
- = screen sizes up to 120"
- = compatible with all LCD, DLP, and LCOS projectors

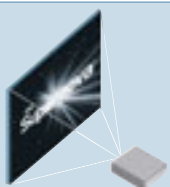
The dnp Supernova Screen is a revolutionary new front projection screen that allows you to use front projection in high brightness environments. The screen, which has won prestigious technology awards, delivers up to ten times higher contrast and two times brighter images than standard front projection screens.

The dnp Supernova Screen combines the best of both worlds: the superior image quality of optical rear projection with front screens' minimal space requirements and ease of installation. This opens up vast new opportunities for display solutions in brightly-lit conference rooms, shop environments and home entertainment.

Conventional front screens operating with contrast ratios in the range of 2-3:1 are traditionally associated with dark meeting rooms and window blinds – often resulting in eyestrain and low audience concentration. However, with contrast levels exceeding 20:1 and with a gain of 2.0, the Supernova Screen allows presenters to achieve maximum effect in broad daylight and in an



The dnp Supernova Screen is an advanced optical front projection screen. The screen features a patent pending high-contrast filter that covers 60% of the screen surface. This filter allows the projected image to be reflected by the screen and effectively absorbs incident light from other angles such as windows and room lighting. As a result, the screen is virtually unaffected by ambient light.



Front projection

Front projection means that the projector is placed in front of a screen with a reflective surface. The screen can be hung on walls or suspended from ceilings, with the projector placed on a table or mounted in the ceiling. This makes front projection solutions very easy to install and maintain.

Screen specifications

dnp Supernova Screen	Type no.	45" SNS - 16:9 5 045 000 10	60" SNS - 16:9 5 060 000 10	72" SNS - 16:9 5 072 000 10	84" SNS - 16:9 5 084 000 10	92" SNS - 16:9 5 092 000 10	100" SNS - 16:9 5 100 000 10	120" SNS - 16:9 5 120 000 10
Image area								
Width	mm	996.0	1328.0	1594.0	1860.0	2036.7	2214.0	2657.0
	inch	39.21	52.28	62.76	73.23	80.18	87.17	104.61
Height	mm	560.0	747.0	897.0	1046.0	1145.6	1245.0	1494.0
	inch	22.05	29.41	35.31	41.18	45.10	49.02	58.82
Outside dimension (Frame included)								
Width	mm	1148.0	1480.0	1746.0	2012.0	2189.0	2366.0	2809.0
	inch	45.20	58.27	68.74	79.21	86.18	93.15	110.59
Height	mm	712.0	899.0	1049.0	1198.0	1297.6	1397.0	1646.0
	inch	28.03	35.39	41.30	47.17	51.09	55.00	64.80
Weight	kg	5.8	8.5	11.0	13.8	15.9	18.1	24.1
	lbs	12.8	18.7	24.3	30.4	35.1	39.9	53.1
Projector information								
Minimum lens throw ratio		1.8:1	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1
Min. projection distance	mm	1793.0	2390.	2869.0	3348.0	3666.6	3985.0	4783.0
	inch	70.59	94.09	112.95	131.81	144.35	156.89	188.31
dnp Supernova Screen	Type no.	45" SNS - 4:3 5 045 000 00	60" SNS - 4:3 5 060 000 00	72" SNS - 4:3 5 072 000 00	84" SNS - 4:3 5 084 000 00	100" SNS - 4:3 5 100 000 00		
Image area								
Width	mm	914.0	1219.0	1463.0	1707.0	2023.0		
	inch	35.98	47.99	57.60	67.20	79.65		
Height	mm	686.0	914.0	1097.0	1280.0	1515.0		
	inch	27.01	35.98	43.19	50.39	59.65		
Outside dimension (Frame included)								
Width	mm	1066.0	1371.0	1615.0	1859.0	2175.0		
	inch	41.47	53.98	63.58	73.19	85.63		
Height	mm	838.0	1066.0	1249.0	1432.0	1667.0		
	inch	32.99	41.97	49.17	56.38	65.63		
Weight	kg	6.2	9.1	11.9	14.9	19.4		
	lbs	13.7	20.1	26.2	32.9	42.8		
Projector information								
Minimum lens throw ratio		1.8:1	1.8:1	1.8:1	1.8:1	1.8:1		
Min. projection distance	mm	1645.0	2194.0	2633.0	3073.0	3641.0		
	inch	64.76	86.38	103.66	120.98	143.35		

General specifications

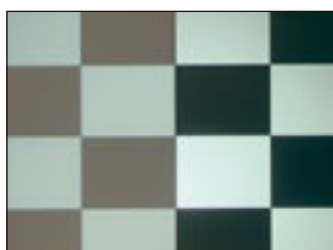
	Pitch	Gain					
dnp Supernova Screen	0.065	2.0					

Subject to change without notice. Please check specification at time of ordering.

January 2006

Installation principles

The optical display is compatible with all standard projectors, and can be installed like a conventional front screen with the projector mounted in the ceiling or placed on the table.



Split-screen comparison of a dnp Supernova Screen (right half) and a standard front screen (left half) using a 1200 ANSI Lumen LCD projector in a brightly-lit environment (350 Lux measured at the screen centre). Due to the built-in optical contrast enhancement filter, the Supernova Screen provides extremely good image contrast and black levels, even at this high on-screen ambient light level.



Optical front technology

While standard front screens passively reflect the projected image - and all ambient light - back in all directions, dnp optical front projection screens comprise technologies that enhance image brightness and contrast. As a result, optical front projection screens from dnp offer up to ten times higher contrast and two times brighter images than standard front screens.



Screens of the art

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