dnp Optical Front Screen – Supernova™

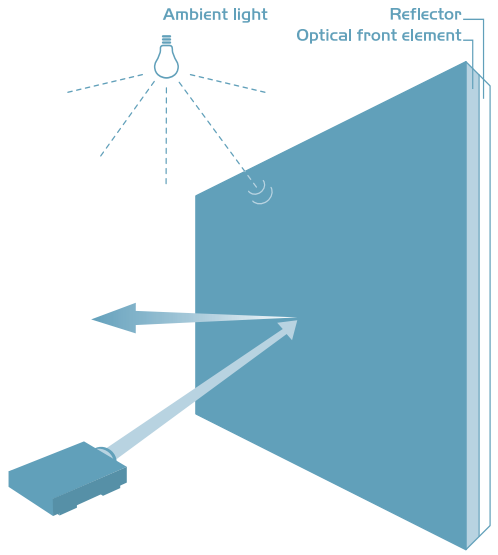
ergonomically designed environment. The screen features an ultra-fine pitch of 0.065 mm that provides a vertical resolution of 20,000 lines with a 100" version of the screen and infinite horizontal resolution. The dnp Supernova Screen is available in sizes up to 100" in 4:3 format and up to 120" in 16:9.

- = 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" in 16:9
- = compatible with all LCD, DLP, and LCOS projectors

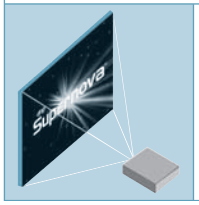
The dnp Supernova Screen is a revolutionary new front projection screen that allows you to use front projection in high brightness environments. The screen delivers up to ten times higher contrast and two times brighter images than standard front projection screens.

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 theatres.

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 effec-tively 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 1 000 10	60" SNS - 16:9 5 060 1 000 10	72" SNS - 16:9 5 072 1 000 10	84" SNS - 16:9 5 084 1 000 10	100" SNS - 16:9 5 100 1 000 10	120" SNS - 16:9 5 120 1 000 10
Image area							
Width	mm	996	1328	1594	1860	2214	2657
Height	mm	560	747	897	1046	1245	1494
Projector information							
Minimum lens throw ratio		1.8:1	1.8:1	1.8:1	1.8:1	1.8:1	1.8:1
Min. projection distance	mm	1793	2390	2869	3348	3985	4783

dnp Supernova Screen	Type no.	45" SNS - 4:3 5 045 1 000 00	60" SNS - 4:3 5 060 1 000 00	72" SNS - 4:3 5 072 1 000 00	84" SNS - 4:3 5 084 1 000 00	100" SNS - 4:3 5 100 1 000 00	
Image area							
Width	mm	914	1219	1463	1707	2032	
Height	mm	686	914	1097	1280	1524	
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	2194	2633	3073	3658	

General specifications

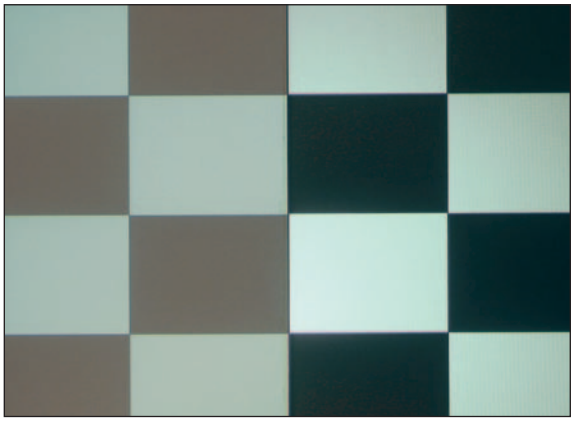
	Pitch	Gain				
dnp Supernova Screen	0.065	2.0				

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

August 2005

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 meassured 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

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.

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Screens of the art