

dnp Supernova STS is a unique front projection screen with a built-in Fresnel lens structure – an optical technology that is used to focus projected light and pass it on straight towards the viewers. This groundbreaking new screen optimises the output of Ultra-Short-Throw-Projectors, and opens up a wealth of new display opportunities.



dnp optical front projection screens

**Ideal for compact spaces**

dnp Supernova STS performs superbly in situations where the projector is mounted directly on the back wall (or on a short projector-arm), projecting onto the screen from a steep angle. This ultra-compact installation is the perfect choice for situations where space is limited and/or the projector cannot be ceiling mounted - such as in a classroom, a small meeting room or in a living room. The screen can be installed with the projector positioned either above or below it.

**High contrast, low price**

The unique dnp front fresnel technology optimises the performance of ultra-short-throw projectors. The dnp Supernova STS Screen is optimised for Ultra-Short-Throw-Projectors with a lens-throw-ratio ideally of 0.23 for 16:9 and 0.26 for 16:10. Teaming up the new screen with such a projector gives you a cost-effective alternative to flat panels in the 80-100" range. It offers almost the same level of contrast, but at a lower price point. Compared to traditional white front projection screens, the Supernova STS Screen provides better contrast and colour saturation, thanks to its built-in lens technology.

**Ready for touch and interactive applications**

dnp Supernova STS Screen comes as standard in a maximum size of 100" in 16:9 and 92" in 16:10 format. Custom sizes are available upon request. The screen is fitted with a stylish thin black frame around the image area. A hard-coat front and a rigid aluminium

back plate make the screen suitable for touch and interactive applications, should users wish to add these. Screens are packed individually.

- > Unique front-Fresnel technology
- > Best-in-class performance with Ultra-Short-Throw-Projectors
- > Compact, space-saving installation design
- > Unrivalled front projection image-contrast
- > Great large size flat screen display value
- > Ready for interactive touch screen applications
- > Easy to clean
- > Maximum image size 100" 16:9
- > Optimised for 126% offset projection (all sizes & formats)
- > Optimal lens-throw-ratio of 0.23:1 for 16:9 projectors
- > Optimal lens-throw-ratio of 0.26:1 for 16:10 projectors

Application suitability	
Auditorium/sports arena	★ ★
Conference room	★ ★ ★ ★ ★ ★
Control room	★ ★
TV studio	★ ★
Advertising – in-store	★ ★
Advertising – window display	★ ★
Home entertainment – bright living room	★ ★ ★ ★ ★
Home entertainment – darkened home theatre	★ ★ ★
Education	★ ★ ★ ★ ★ ★

**PRODUCT DETAILS**

<b>PART NO.</b>	5092140040	5100140010
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<b>IMAGE SIZES</b>		
Aspect ratio	16:10	16:9
Screen size	92"	100"

<b>IMAGE AREA</b>			
Width	mm	1992	2214
Height	mm	1245	1245
Width	inch	78.4	87.2
Height	inch	49.0	49.0

<b>OUTER DIMENSIONS (INCLUDING FRAME)</b>			
Width	mm	2006	2228
Height	mm	1259	1259
Width	inch	79.0	87.7
Height	inch	49.6	49.6

<b>SHIPPING DIMENSIONS</b>			
Length	mm	2314	2314
Width	mm	1345	1345
Height	mm	159	159
Length	inch	91.1	91.1
Width	inch	53.0	53.0
Height	inch	6.3	6.3

<b>WEIGHT</b>			
Screen (net)	kg	19	21
Shipping (gross)	kg	89	91
Screen (net)	lbs	42	46
Shipping (gross)	lbs	196	201

<b>PROJECTOR INFORMATION</b>			
Lens-Throw-Ratio	LTR	0.26:1 +/- 10%	0.23:1 +/- 10%
Projection distance	mm	513 +/- 51	513 +/- 51
	inch	20.2 +/- 2.0	20.2 +/- 2.0
Vertical off-set (to screen center)	%	126% +/- 10%	126% +/- 10%
	mm	787 +/- 79	787 +/- 79
	inch	31.0 +/- 3.1	31.0 +/- 3.1

**ADVANCED OPTICAL TECHNOLOGY**

The outstanding performance of the dnp Supernova STS Screen is mainly due to the sophisticated lens structure, which comprises 6 optical layers. At the heart of the screen lies a half-circular Fresnel lens that reflects light beams from the projector and sends them towards the viewers. Its highly efficient light transmission enables the screen to have darker black level, without losing significant brightness in the white, which effectively results in higher image contrast.

**GENERAL INFORMATION**

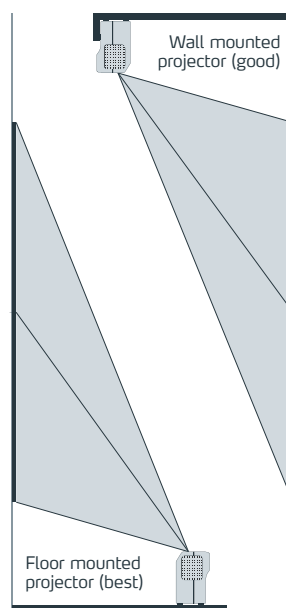
<b>SCREEN DATA</b>		
Peak gain		0.95
Horizontal half-gain angle	°	27
Lens pitch	micron	100

<b>FRAME</b>		
Width	mm	7
	inch	0.3
Depth	mm	21
	inch	0.8

<b>OPERATING ENVIRONMENT</b>		
Temperature	°C	10-40
	°F	50-104
Humidity (non-condensing)	%RH	10-70

<b>INCLUDED IN THE PACKAGE</b>		
Screen, wall mounting accessories, installation manual		

**INSTALLATION PRINCIPLES**



The screen can be installed with the projector positioned either above or below it. However, in environments with high levels of ambient light, dnp recommends mounting the projector below the screen, so that images are projected upwards. In this position, ambient light is blocked from above, leading to even higher image contrast. Due to the asymmetrical (half-circle) Fresnel lens, correct orientation of the screen in relation to the projector is essential in all cases.

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

