

dnp Giant Wide Angle Screen™



The dnp Giant Wide Angle (GWA) is a series of large screens including the world's first 200" optical rear projection screen. With an image area up to 4 x 3 metres, the GWA Screen offers the size of a 5 x 5 40" cube video-wall – but in a single screen! This makes the screen well suited for projection of large high-quality images in conference and control rooms with long viewing distances.

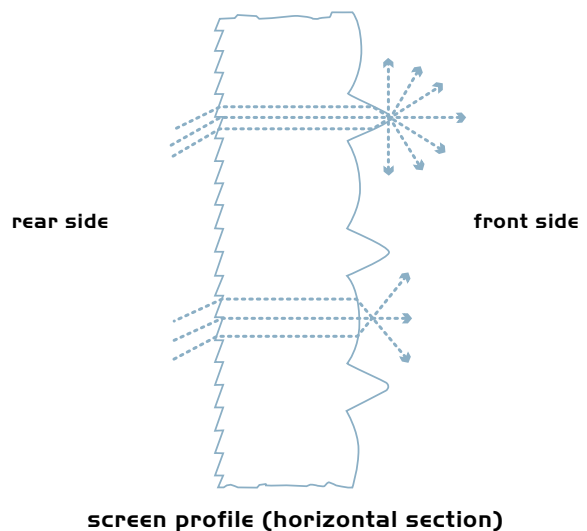
The GWA Screen is designed especially for projection to large audiences and produces bright, sharp images over a broad viewing area.

The GWA Screen is a single element optical system with two active lens surfaces. Due to its optical lens design, the dnp GWA Screen offers very good brightness uniformity and contrast levels.

GWA Screens are available in sizes from 140"-200" in 4:3 format. On request the screens can be cut down to

16:9 widescreen format up to 180". Screens in sizes from 140"-160" can be ordered ready-mounted in the dnp frame system to make installation easier. A special rigid 40 x 40 mm square aluminium frame is available for screens in size range 161"-200". The screen is pre-fitted with the frame's top section for easy removal from the crate. This special framing system is supplied as standard with all screens from 161"-200".

- = Optical Fresnel lens system
- = High image brightness
- = Screen sizes from 140"-200"
- = Available in 16:9 wide screen up to 180"
- = Multiple choice of 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

Giant Wide Angle Screen Type no.	140" GWA 3500 3 140 1 350 00	150" GWA 3500 3 150 1 350 00	160" GWA 3500 3 160 1 350 00	180" GWA 4800 3 180 1 480 10	200" GWA 4800 3 200 1 480 10		
Dimensions							
Width	mm	2878 +/- 2	3081 +/- 2	3284 +/- 2	3688 +/- 3	4064 +/- 3	
Height	mm	2168 +/- 2	2321 +/- 2	2473 +/- 2	2774 +/- 3	3048 +/- 3	
Rec. lens throw ratio range		1.0 - 1.7:1	0.9 - 1.6:1	0.9 - 1.5:1	1.0 - 1.8:1	0.9 - 1.7:1	
Rec. projection distance range*	mm	2840 - 4840	2740 - 4880	2930 - 4880	3800 - 6700	3800 - 6700	
Thickness	mm	7.5 +/- 1	7.5 +/- 1	7.5 +/- 1	7.5 +/- 1	7.5 +/- 1	
Weight	kg	58.3 +/- 10%	65.6 +/- 10%	74.5 +/- 10%	92.1 +/- 10%	111.5 +/- 10%	
Image area							
Width	mm	2845	3048	3251	3662	4038	
Height	mm	2134	2286	2438	2743	3017	
Optical specifications							
Screen focal	mm	3500	3500	3500	4800	4800	
Outer frame dimensions							
Width	mm				3742 +/- 3	4118 +/- 3	
Height	mm				2823 +/- 3	3097 +/- 3	

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

General specifications

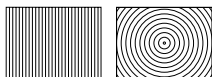
Optical specifications	Peak Gain	Pitch		
Giant Wide Angle Screen	3.0 +/- 0.5	0.50		

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

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



Screens of the art