

dnp Giant Wide Angle Screen™

TV studio version

140" - 200"



The TV studio version of the dnp Giant Wide Angle Screen (GWA) is a large optical rear projection screen, specially designed to meet the requirements in brightly lit TV studios. With sizes up to 200", the screen offers a seamless image area of 4 x 3 metres.



dnp optical rear
projection screens

The new GWA TV Studio Screen produces sharp, highcontrast images over a broad viewing area. Furthermore it has a matt surface to avoid reflection of light.

Typical TV studios operate in light levels well above 1000 lux, which completely "washes out" the image on front projection screens. This unique optical rearpro screen generates enhanced black levels, which will create an image with a high contrast level.

The screen offers you large high-quality projected images in TV studios – either as part of the studio setting or as an audience display.

The GWA TV Studio Screen is a single element optical system with two active lens surfaces. Due to its optical lens design, the

dnp GWA Screen offers super-enhanced brightness uniformity and contrast levels.

- > High contrast anti-reflective surface
- > Optical Fresnel lens system
- > Screen sizes from 140" – 200"
- > Available in 16:9 wide screen format up to 180"
- > Compatible with all standard 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	★ ★ ★

dnp GWA Screen™ Specifications

TV studio version

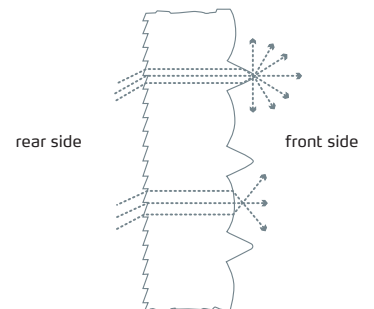
Product details

Giant Wide Angle Screen Type		GWA TV 3500 140"	GWA TV 3500 150"	GWA TV 3500 160"	GWA TV 4800 180"	GWA TV 4800 200"
Dimensions						
Width	mm	2878 +/- 2	3081 +/- 2	3284 +/- 2	3684 +/- 3	4064 +/- 3
Height	mm	2168 +/- 2	2321 +/- 2	2473 +/- 2	2774 +/- 3	3048 +/- 3
Thickness	mm	7.5 +/- 1	7.5 +/- 1	7.5 +/- 1	7.5 +/- 1	7.5 +/- 1
Weight	kg	55.9 +/- 10%	64.1 +/- 10%	72.8 +/- 10%	92 +/- 10%	111.5 +/- 10%
Width	inch	113.3 +/- 0.08	121.3 +/- 0.08	129.3 +/- 0.08	145 +/- 0.12	160 +/- 0.12
Height	inch	85.4 +/- 0.08	91.4 +/- 0.08	97.4 +/- 0.08	109.2 +/- 0.12	120 +/- 0.12
Thickness	inch	0.3 +/- 0.04	0.3 +/- 0.04	0.3 +/- 0.04	0.3 +/- 0.04	0.3 +/- 0.04
Weight	lbs	123 +/- 10%	141 +/- 10%	160 +/- 10%	202.4 +/- 10%	245.3 +/- 10%
Image area						
Width	mm	2845	3048	3251	3658	4038
Height	mm	2134	2286	2438	2743	3017
Width	inch	112	120	128	144	159
Height	inch	84	90	96	108	119
Projection information						
Rec. lens throw ratio	ltr	1.1 - 1.5 : 1	1.0 - 1.4 : 1	1.0 - 1.3 : 1	1.2 - 1.6 : 1	1.1 - 1.5 : 1
Rec. projection distance*	mm	3150 - 4375	3150 - 4375	3150 - 4375	4320 - 6000	4320 - 6000
	inch	124 - 172	124 - 172	124 - 172	170 - 236	170 - 236
Optical specifications						
Focal length	mm	3500	3500	3500	4800	4800
Focal length	inch	138	138	138	189	189
Outer frame dimensions						
Width	mm				3738 +/- 3	4118 +/- 3
Height	mm				2823 +/- 3	3097 +/- 3
Weight	kg				14	15.3
Width	inch				147.2 +/- 0.12	162.1 +/- 0.12
Height	inch				111.1 +/- 0.12	121.9 +/- 0.12
Weight	lbs				30.8	33.7

*General tolerance = -10/+25%, related to the actual screen focal length. The tolerance only applies to individual installations
Subject to change without notice. Please check specification at time of ordering.

Screen profile (horizontal section)

The high precision Fresnel lens on the projector side redirects the projected light and sends it forwards at right angles through 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. The matt surface prevents reflections from light sources in the studio environment.



Special options

The TV studio version of the GWA Screen is 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".

dnp GWA Screen™ General information

TV studio version

General specifications

Optical specifications

Peak gain 3.0 +/- 0.5
Lenticular pitch 0.50

Operating environment

Temperature °C 5-35
°F 41-95
Humidity (non-condensing) %RH 30-70

Included in the package

Gloves, quality certificate

Certificates



Gain chart

