



The dnp Alpha Screen is a multi-purpose screen for all rear projection applications, which require a combination of wide viewing angles – both horizontally and vertically – enhanced contrast, brightness uniformity and high resolution.



dnp optical rear projection screens

This makes the Alpha Screen ideal for modern conference rooms and control room environments. The excellent vertical viewing angles also make the Alpha Screen well suited for multi-screen installations.

The Alpha Screen is an advanced optical micro filter screen. Due to the special construction of the Alpha Screen it offers infinite resolution. Furthermore, the screen has an anti-glare front surface to minimize reflections from windows and room lighting.

The Alpha Screen is especially developed for the new generation of powerful single-lens projectors. Due to their brightness, these projectors require a screen with the ability to distribute the brightness evenly – and to enhance the perceived contrast of the image. The Alpha Screen fulfils both needs.

The Alpha Screen offers perfectly symmetrical viewing angles – both vertically and horizontally.

- > Wide vertical and horizontal viewing angles
- > High contrast
- > Infinite resolution
- > Multiple options for focal length
- > Easy-clean surface
- > 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 Alpha Screen™ Specifications

## Product details

Alpha Screen Type Screen size		Alpha 1400 84"	Alpha 1900 84"	Alpha 2300 84"	Alpha 1850 100"	Alpha 2300 100"
<b>Dimensions</b>						
Width	mm	1742 +/- 1	1742 +/- 1	1742 +/- 1	2066 +/- 1.5	2066 +/- 1.5
Height	mm	1317 +/- 1	1317 +/- 1	1317 +/- 1	1560 +/- 1.5	1560 +/- 1.5
Thickness	mm	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1
Weight	kg	15 +/- 10%	15 +/- 10%	15 +/- 10%	21.7 +/- 10%	21.7 +/- 10%
Width	inch	68.6 +/- 0.04	68.6 +/- 0.04	68.6 +/- 0.04	81.3 +/- 0.06	81.3 +/- 0.06
Height	inch	51.9 +/- 0.04	51.9 +/- 0.04	51.9 +/- 0.04	61.4 +/- 0.06	61.4 +/- 0.06
Thickness	inch	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04
Weight	lbs	33 +/- 10%	33 +/- 10%	33 +/- 10%	47.7 +/- 10%	47.7 +/- 10%

## Image area

Width	mm	1707	1707	1707	2032	2032
Height	mm	1280	1280	1280	1524	1524
Width	inch	67	67	67	80	80
Height	inch	50	50	50	60	60

## Projection information

Rec. lens throw ratio	ltr	0.7 - 1.0 : 1	1.0 - 1.4 : 1	1.2 - 1.7 : 1	0.8 - 1.1 : 1	1.0 - 1.4 : 1
Rec. projection distance*	mm	1260 - 1750	1710 - 2375	2070 - 2875	1665 - 2313	2070 - 2875
	inch	50 - 69	67 - 94	81 - 113	66 - 91	81 - 113

## Optical specifications

Focal length	mm	1400	1900	2300	1850	2300
Focal length	inch	55	75	91	73	91

Alpha Screen Type Screen size		Alpha 2700 100"	Alpha 1850 120"	Alpha 2300 120"	Alpha 2700 120"
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## Dimensions

Width	mm	2066 +/- 1.5	2472 +/- 1.5	2472 +/- 1.5	2472 +/- 1.5
Height	mm	1560 +/- 1.5	1864 +/- 1.5	1864 +/- 1.5	1864 +/- 1.5
Thickness	mm	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1	5.5 +/- 1
Weight	kg	21.7 +/- 10%	30.9 +/- 10%	30.9 +/- 10%	30.9 +/- 10%
Width	inch	81.3 +/- 0.06	97.3 +/- 0.06	97.3 +/- 0.06	97.3 +/- 0.06
Height	inch	61.4 +/- 0.06	73.4 +/- 0.04	73.4 +/- 0.04	73.4 +/- 0.04
Thickness	inch	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04	0.22 +/- 0.04
Weight	lbs	47.7 +/- 10%	68 +/- 10%	68 +/- 10%	68 +/- 10%

## Image area

Width	mm	2032	2438	2438	2438
Height	mm	1524	1828	1828	1828
Width	inch	80	96	96	96
Height	inch	60	72	72	72

## Projection information

Rec. lens throw ratio	ltr	1.2 - 1.7 : 1	0.7 - 0.9 : 1	0.8 - 1.2 : 1	1.0 - 1.4 : 1
Rec. projection distance*	mm	2430 - 3375	1665 - 2313	2070 - 2875	2430 - 3375
	inch	96 - 133	66 - 91	81 - 113	96 - 133

## Optical specifications

Focal length	mm	2700	1850	2300	2700
Focal length	inch	106	73	91	106

\*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.

# dnp Alpha Screen™ General information

## General specifications

### Optical specifications

Peak gain 2.3 +/- 0.3  
Lenticular pitch xxx

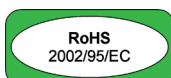
### Operating environment

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

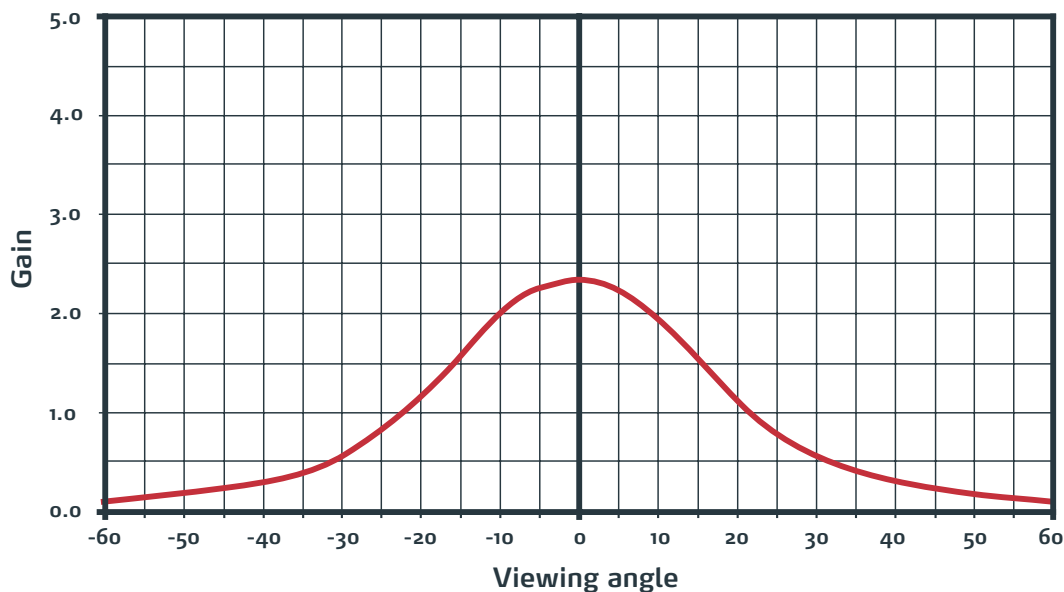
### Included in the package

Gloves, quality certificate

### Certificates



## Gain chart



Horizontal + Vertical

### Half gain angles

Horizontal: 18°

Vertical: 18°