



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 videowall – 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.



dnp optical rear  
projection screens

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 prefitted 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 format up to 180"
- > Compatible with all standard projectors
- > 4K compatible

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

## Product details

| Giant Wide Angle Screen Type | GWA 3500<br>140" | GWA 3500<br>150" | GWA 3500<br>160" | GWA 4800<br>180" | GWA 4800<br>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  |

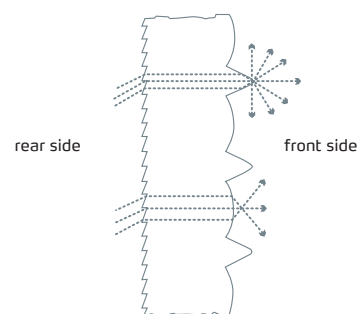
### Outer frame dimensions

|        |      |  |  |  |                |                |
|--------|------|--|--|--|----------------|----------------|
| 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.



## Special options

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 prefitted 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".

## General specifications

### Optical specifications

|                  |             |
|------------------|-------------|
| Peak gain        | 3.0 +/- 0.5 |
| Lenticular pitch | 0.50        |

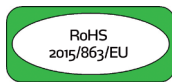
### Operating environment

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

### Included in the package

Gloves, quality certificate

### Certificates



In case the projected image has a width of 3255-3330 mm (128.1"-131.1") or 3551-3930 mm (141.5"-154.7"), there is a risk of optical interference patterns between the pixel structure and the physical lens structures in the screen.

## Gain chart

