



The dnp Beta Screen is an advanced double element screen which is especially developed for modern control room applications. The Beta Screen offers improved horizontal viewing angles and superior brightness uniformity – even when it is used together with ultra short throw lenses in the range of 0.7:1



dnp optical rear  
projection screens

With a Peak Gain of 2.0, the dnp Beta Screen has been optimized for modern control room engines, which offer high brightness uniformity. The improved black levels and contrast of the screen result in crisp and vivid images – allowing display of very detailed images.

The Beta Screen is available in the range of 84" – 120". As projectors become more and more powerful and with higher resolution, the trend goes towards larger cubes and thus fewer screens and projectors in the wall. The result is lower maintenance costs and fewer seams, which are critical factors in modern control room displays.

As the Beta Screen is designed exclusively for state-of-the-art control room applications, it is only available in focal lengths for ultra short throw lenses. The screen can be supplied in both 4:3 and 5:4 aspect ratio.

- > Outstanding brightness uniformity
- > 180° viewing angles
- > Ultra short focal length
- > Screen sizes from 84" – 120"
- > Available in 4:3 and 5:4 format
- > 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	★

## Product details

Beta Screen Type Screen size	Beta 1450 4:3 84"	Beta 1450 5:4 84"	Beta 1500 4:3 100"	Beta 1500 5:4 100"	Beta 2300 4:3 120"
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Part no.	5 084 2 100 10	5 092 2 100 10	5 100 2 100 10	5 110 2 100 10	5 120 2 100 10
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### Dimensions

Width	mm	1732.3 +/- 1	1692.3 +/- 1	2082.8 +/- 1.5	2035.2 +/- 1.5	2489.2 +/- 1.5
Height	mm	1305.6 +/- 1	1358.9 +/- 1	1574.8 +/- 1.5	1638.3 +/- 1.5	1879.6 +/- 1.5
Thickness	mm	7.5 +/- 1	7.5 +/- 1	11.0 +/- 1	11.0 +/- 1	11.0 +/- 1
Weight	kg	20.4	20.7	43.3	44.0	61.8
Width	inch	68.2 +/- 0.04	66.6 +/- 0.04	82 +/- 0.06	80.1 +/- 0.06	98 +/- 0.06
Height	inch	51.4 +/- 0.04	53.5 +/- 0.04	62 +/- 0.06	64.5 +/- 0.06	74 +/- 0.06
Thickness	inch	0.3 +/- 0.04	0.3 +/- 0.04	0.4 +/- 0.04	0.4 +/- 0.04	0.4 +/- 0.04
Weight	lbs	44.9	45.5	95.3	96.8	136

### Image area

Width	mm	1706.9	1666.9	2032	1984.4	2438.4
Height	mm	1280.2	1333.5	1524	1587.5	1828.8
Width	inch	67.2	65.6	80	78.1	96
Height	inch	50.4	52.5	60	62.5	72

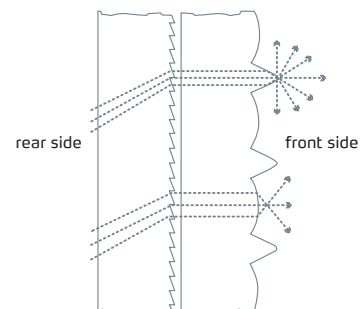
### Optical specifications

Focal length	mm	1450	1450	1500	1500	2300
Focal length	inch	57.1	57.1	59.1	59.1	90.6

Other focal lengths and screen sizes are available on request.  
Subject to change without notice. Please check specification at time of ordering.

## Screen profile (horizontal section)

The rear element of the Beta Screen consists of a Fresnel lens which directs all projected light forwards at right-angles. The unique lenticular lens on the front element controls both the vertical viewing angles and distributes the light horizontally offering true 180° viewing angles.



## General specifications

### Optical specifications

Peak gain	2.0 +/- 0.3
Lenticular pitch	0.25

### Operating environment

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

### Humidity/expansion coefficient

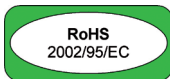
Coefficient of thermal expansion (10 <sup>-6</sup> m/m/°C)	
Fresnel element	72
Front side element	72

See [graph](#) for details on humidity expansion

### Included in the package

Gloves, quality certificate

### Certificates



## Gain chart

